### UNITED STATES SECURITIES AND EXCHANGE COMMISSION WASHINGTON, D.C. 20549

### **FORM 20-F**

(Ma	rk One) REGISTRATION STATEMENT PURSUANT TO SECTION 12(b) OR (g) OF THE SECURITIES EXCHANGE ACT OF 1934
$\boxtimes$	OR ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934 For the fiscal year ended December 31, 2022
	OR TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934
	OR SHELL COMPANY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934 Date of event requiring this shell company report Commission file number 001-31811
	Woori Financial Group Inc. (Exact name of Registrant as specified in its charter)
	Woori Financial Group Inc. (Translation of Registrant's name into English)
	The Republic of Korea  (Jurisdiction of incorporation or organization)  51, Sogong-ro, Jung-gu, Seoul 04632, Korea  (Address of principal executive offices)  Hong Sung Han  51, Sogong-ro, Jung-gu, Seoul 04632, Korea  Telephone No.: +82-2-2125-2051  Facsimile No.: +82-0505001-0408  (Name, telephone, e-mail and/or facsimile number and address of company contact person)
A	Securities registered or to be registered pursuant to Section 12(b) of the Act.  Title of each class merican Depositary Shares, each representing  WF  Trading symbol WF  New York Stock Exchange
	three shares of Common Stock  Common Stock, par value \(\fowngar \)5,000 per share  Securities registered or to be registered pursuant to Section 12(g) of the Act:  None  Securities for which there is a reporting obligation pursuant to Section 15(d) of the Act:  None  None
1934 (or for chapt accel	Indicate the number of outstanding shares of each of the issuer's classes of capital or common stock as of the close of the period covered by the annual report.  728,058,225 shares of Common Stock, par value \(\frac{W}{5},000\) per share  Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. \(\sigma\) Yes \(\sigma\) No  If this report is an annual or transition report, indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or 15(d) of the Securities Exchange Act of \(\sigma\) \(\sigma\) Yes \(\sigma\) No  Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months or such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. \(\sigma\) Yes \(\sigma\) No  Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (\(\frac{8}{2}\)23.2405 of this er) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). \(\sigma\) Yes \(\sigma\) No  Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, or an emerging growth company. See the definitions of "large erated filer," "accelerated filer," and "emerging growth company" in Rule 12b-2 of the Exchange Act.  \(\sigma\) Large accelerated filer \(\sigma\) emerging growth company that prepares its financial statements in accordance with U.S. GAAP, indicate by check mark if the registrant has elected not to use the extended tion period for complying with any new or revised financial accounting standards† provided pursuant to Section 13(a) of the Exchange Act. \(\sigma\)
April under error execu	5, 2012.  Indicate by check mark whether the registrant has filed a report on and attestation to its management's assessment of the effectiveness of its internal control over financial reporting section 404(b) of the Sarbanes-Oxley Act (15 U.S.C. 7262(b)) by the registered public accounting firm that prepared or issued its audit report.   Yes No fir securities are registered pursuant to Section 12(b) of the Act, indicate by check mark whether the financial statements of the registrant included in the filing reflect the correction of an to previously issued financial statements.  Indicate by check mark whether any of those error corrections are restatements that required a recovery analysis of incentive-based compensation received by any of the registrant's retive officers during the relevant recovery period pursuant to \$240.10D-1(b).  Indicate by check mark which basis of accounting the registrant has used to prepare the financial statements included in this filing:  U.S. GAAP  International Financial Reporting Standards as issued  Other
the d	by the International Accounting Standards Board  duditor Name: Samil PricewaterhouseCoopers  Auditor Firm ID: 1103  If "other" has been checked in response to the previous question, indicate by check mark which financial statement item the registrant has elected to follow.   Item 18  If this is an annual report, indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act).   Yes   No  (APPLICABLE ONLY TO ISSUERS INVOLVED IN BANKRUPTCY PROCEEDINGS DURING THE PAST FIVE YEARS)  Indicate by check mark whether the registrant has filed all documents and reports required to be filed by Sections 12, 13 or 15(d) of the Securities Exchange Act of 1934 subsequent to stribution of securities under a plan confirmed by a court.   Yes   No  Yes   No  to retrading, but only in connection with the registration of the American Depositary Shares.

### TABLE OF CONTENTS

			Page
		al and Other Information	1
Forward-L	ooking State	ments	2
Item 1.	Identity of	Directors, Senior Management and Advisers	3
Item 2.	Offer Statis	stics and Expected Timetable	3
Item 3.	Key Inforn	nation	3
	Item 3.A.	[Reserved]	3
	Item 3.B.	Capitalization and Indebtedness	3
	Item 3.C.	Reasons for the Offer and Use of Proceeds	3
	Item 3.D.	Risk Factors	3
Item 4.	Information	n on the Company	35
	Item 4.A.	History and Development of the Company	35
	Item 4.B.	Business Overview	42
	Item 4.C.	Organizational Structure	115
	Item 4.D.	Property, Plants and Equipment	116
Item 4A.	Unresolved	d Staff Comments	117
Item 5.		and Financial Review and Prospects	117
	Item 5.A.	Operating Results	117
	Item 5.B.	Liquidity and Capital Resources	143
	Item 5.C.	Research and Development, Patents and Licenses, etc.	148
	Item 5.D.	Trend Information	148
	Item 5.E.	Critical Accounting Estimates	148
Item 6.	Directors.	Senior Management and Employees	149
	Item 6.A.	Directors and Senior Management	149
	Item 6.B.	Compensation	152
	Item 6.C.	Board Practices	152
	Item 6.D.	Employees	154
	Item 6.E.	Share Ownership	155
	Item 6.F.	Disclosure of A Registrant's Action to Recover Erroneously Awarded	
		Compensation	155
Item 7.	Major Shar	reholders and Related Party Transactions	155
	Item 7.A.	Major Shareholders	155
	Item 7.B.	Related Party Transactions	157
	Item 7.C.	Interest of Experts and Counsel	157
Item 8.	Financial I	nformation	157
	Item 8.A.	Consolidated Statements and Other Financial Information	157
	Item 8.B.	Significant Changes	163
Item 9.		and Listing	163
	Item 9.A.	Offering and Listing Details	163
	Item 9.B.		166
	Item 9.C.	Markets	166
	Item 9.D.	Selling Shareholders	166
	Item 9.E.	Dilution	166
	Item 9.F.	Expenses of the Issuer	167
Item 10.		Information	167
Tem 10.	Item 10.A.		167
	Item 10.B.		167
		Material Contracts	173
		Exchange Controls	173
	Item 10.D. Item 10.E.	· · · · · · · · · · · · · · · · · · ·	174
		Dividends and Paying Agents	180
		Statements by Experts	180
		~	- 00

		Page
	Item 10.H. Documents on Display	180
	Item 10.I. Subsidiary Information	181
Item 11.	Quantitative and Qualitative Disclosures about Market Risk	181
Item 12.	Description of Securities Other Than Equity Securities	204
Item 13.	Defaults, Dividend Arrearages and Delinquencies	205
Item 14.	Material Modifications to the Rights of Security Holders and Use of Proceeds	205
Item 15.	Controls and Procedures	205
Item 16.	Reserved	206
Item 16A.	Audit Committee Financial Expert	206
Item 16B.	Code of Ethics	206
Item 16C.	Principal Accountant Fees and Services	206
Item 16D.	Exemptions from the Listing Standards for Audit Committees	207
Item 16E.	Purchase of Equity Securities by the Issuer and Affiliated Purchasers	207
Item 16F.	Change in Registrant's Certifying Accountant	207
Item 16G.	Corporate Governance	208
Item 16H.	Mine Safety Disclosure	209
Item 16I.	Disclosure Regarding Foreign Jurisdictions that Prevent Inspections	209
Item 17.	Financial Statements	209
Item 18.	Financial Statements	209
Item 19.	Exhibits	210

#### PRESENTATION OF FINANCIAL AND OTHER INFORMATION

The financial statements included in this annual report are prepared in accordance with International Financial Reporting Standards, or IFRS, as issued by the International Accounting Standards Board, or the IASB.

Unless expressly stated otherwise, all financial data included in this annual report are presented on a consolidated basis.

We were established on January 11, 2019 pursuant to a "comprehensive stock transfer" under Korean law, whereby holders of the common stock of Woori Bank and certain of its subsidiaries transferred all of their shares to us, a new financial holding company, and in return received shares of our common stock. As a result of the stock transfer, Woori Bank and certain of its former wholly-owned subsidiaries, Woori FIS Co., Ltd., Woori Finance Research Institute Co., Ltd., Woori Credit Information Co., Ltd., Woori Fund Services Co., Ltd. and Woori Private Equity Asset Management Co., Ltd., became our direct and wholly-owned subsidiaries. Accordingly, our overall business and operations after the stock transfer, on a consolidated basis, are identical to those of Woori Bank on a consolidated basis immediately prior to the stock transfer. See "Item 4.A. History and Development of the Company—Establishment of Woori Financial Group."

The stock transfer constituted a succession for purposes of Rule 12g-3(a) under the Securities Exchange Act of 1934, as amended (the "Exchange Act"), such that our common stock was deemed registered under Section 12(b) of the Exchange Act by operation of Rule 12g-3(a). Following the stock transfer, we file reports under the Exchange Act as the successor issuer to Woori Bank.

In our consolidated financial statements for financial reporting periods beginning on or after January 1, 2019, the stock transfer is accounted for as a transaction among entities under common control applying the pooling of interests method of accounting (book value accounting). We initially recognized the transferred assets and liabilities at their book value as of the date of the stock transfer in such consolidated financial statements, and no goodwill was recognized in connection with the transaction.

The consolidated financial statements included in this annual report as of dates and for periods prior to the date of our establishment in January 2019 pursuant to the stock transfer were prepared based on the consolidated financial statements for Woori Bank and its subsidiaries, except that Woori FIS Co., Ltd., Woori Finance Research Institute Co., Ltd., Woori Credit Information Co., Ltd., Woori Fund Services Co., Ltd. and Woori Private Equity Asset Management Co., Ltd. were consolidated on a line-by-line basis instead of being presented as assets and liabilities held for sale. Unless expressly stated otherwise, historical financial data included in this annual report as of dates and for periods prior to our establishment are for Woori Bank and its subsidiaries, on a consolidated basis, with the foregoing modification. For further information regarding the accounting treatment of the stock transfer, see Note 1 of the notes to our consolidated financial statements included elsewhere in this annual report.

Unless otherwise indicated or required by the context, "we," "our" and similar terms used in this annual report refer to Woori Financial Group and its subsidiaries (including Woori Bank) and, for periods prior to our establishment, refer to Woori Bank and its subsidiaries.

In this annual report:

- references to "Korea" are to the Republic of Korea;
- references to the "government" are to the government of the Republic of Korea;
- references to "Won" or "\waveta" are to the currency of Korea;
- references to "U.S. dollars," "\$" or "US\$" are to the currency of the United States; and
- references to "Euros" or "EUR" are to the currency of the European Economic and Monetary Union.

Discrepancies between totals and the sums of the amounts contained in any table may be a result of rounding.

#### FORWARD-LOOKING STATEMENTS

The U.S. Securities and Exchange Commission encourages companies to disclose forward-looking information so that investors can better understand a company's future prospects and make informed investment decisions. This annual report contains forward-looking statements.

Words and phrases such as "aim," "anticipate," "assume," "believe," "contemplate," "continue," "estimate," "expect," "future," "goal," "intend," "may," "objective," "plan," "positioned," "predict," "project," "risk," "seek to," "shall," "should," "will likely result," "will pursue" and words and terms of similar substance used in connection with any discussion of future operating or financial performance or our expectations, plans, projections or business prospects identify forward-looking statements. In particular, the statements under the headings "Item 3.D. Risk Factors," "Item 4.B. Business Overview" and "Item 5. Operating and Financial Review and Prospects" regarding our financial condition and other future events or prospects are forward-looking statements. All forward-looking statements are management's present expectations of future events and are subject to a number of factors and uncertainties that could cause actual results to differ materially from those described in the forward-looking statements.

In addition to the risks related to our business discussed under "Item 3.D. Risk Factors," other factors could cause actual results to differ materially from those described in the forward-looking statements. These factors include, but are not limited to:

- our ability to successfully implement our strategy;
- future levels of non-performing loans;
- our growth and expansion;
- · the adequacy of allowances for credit and other losses;
- technological changes;
- interest rates;
- investment income;
- availability of funding and liquidity;
- · our exposure to market risks; and
- adverse market and regulatory conditions.

By their nature, certain disclosures relating to these and other risks are only estimates and could be materially different from what actually occurs in the future. As a result, actual future gains, losses or impact on our income or results of operations could materially differ from those that have been estimated. For example, revenues could decrease, costs could increase, capital costs could increase, capital investment could be delayed and anticipated improvements in performance might not be fully realized.

In addition, other factors that could cause actual results to differ materially from those estimated by the forward-looking statements contained in this annual report could include, but are not limited to:

- general economic and political conditions in Korea or other countries that have an impact on our business activities or investments;
- the monetary and interest rate policies of Korea;
- inflation or deflation;
- unanticipated volatility in interest rates;
- foreign exchange rates;
- · prices and yields of equity and debt securities;

- the performance of the financial markets in Korea and globally;
- changes in domestic and foreign laws, regulations and taxes;
- · changes in competition and the pricing environment in Korea; and
- regional or general changes in asset valuations.

For further discussion of the factors that could cause actual results to differ, see the discussion under "Item 3.D. Risk Factors" contained in this annual report. We caution you not to place undue reliance on the forward-looking statements, which speak only as of the date of this annual report. Except as required by law, we are not under any obligation, and expressly disclaim any obligation, to update or alter any forward-looking statements, whether as a result of new information, future events or otherwise.

All subsequent forward-looking statements attributable to us or any person acting on our behalf are expressly qualified in their entirety by the cautionary statements contained or referred to in this annual report.

### Item 1. IDENTITY OF DIRECTORS, SENIOR MANAGEMENT AND ADVISERS

Not Applicable

#### Item 2. OFFER STATISTICS AND EXPECTED TIMETABLE

Not Applicable

Item 3. KEY INFORMATION

Item 3.A. [Reserved]

Item 3.B. Capitalization and Indebtedness

**Not Applicable** 

Item 3.C. Reasons for the Offer and Use of Proceeds

**Not Applicable** 

Item 3.D. Risk Factors

Risks relating to our corporate credit portfolio

The largest portion of our exposure is to small- and medium-sized enterprises, and financial difficulties experienced by companies in this segment may result in a deterioration of our asset quality and have an adverse impact on us.

Our loans to small- and medium-sized enterprises amounted to \\ \mathbb{W}112,696 \text{ billion, or } 33.4\% \text{ of our total loans, as of December } 31, 2021, and \\ \mathbb{W}122,925 \text{ billion, or } 35.6\% \text{ of our total loans, as of December } 31, 2022. As of December } 31, 2022, Won-denominated loans to small- and medium-sized enterprises that were classified as substandard or below were \\ \mathbb{W}399 \text{ billion, representing } 0.3\% \text{ of such loans to those enterprises. See "Item 4.B.} \text{ Business Overview—Corporate Banking—Small and Medium-Sized Enterprise Banking." We recorded charge-offs of \\ \mathbb{W}117 \text{ billion in respect of our Won-denominated loans to small- and medium-sized enterprises in 2022, compared to charge-offs of \\ \mathbb{W}158 \text{ billion in } 2021 \text{ and } \\ \mathbb{W}219 \text{ billion in } 2020. According to data compiled by the Financial Supervisory Service, the industry-wide delinquency ratios for Won-denominated loans to small- and medium-sized enterprises decreased in 2021 but increased in 2022, and was 0.32\% as of December 31, 2022. The delinquency ratio for small- and medium-sized enterprises is calculated as the ratio of (1) the outstanding balance of such loans in respect of which either principal or interest payments are overdue by one month or more to (2) the aggregate outstanding balance of such loans. Our delinquency ratio for such loans denominated in Won was 0.3\% as of December 31, 2021 and 0.3\% as of December 31, 2022. Our delinquency ratio may increase in 2023 as a result of, among other things, adverse changes in economic conditions in Korea and globally. See

"—Other risks relating to our business—Unfavorable changes in the global financial markets could adversely affect our results of operations and financial condition." Accordingly, we may be required to take measures to decrease our exposures to these customers.

In light of the impact on the financial condition and liquidity position of small- and medium-sized enterprises in Korea as a result of the global financial crisis occurring in 2008, the Korean government introduced measures intended to encourage Korean banks to provide financial support to small- and medium-sized enterprise borrowers. For example, the Korean government requested that Korean banks, including Woori Bank, establish a "fast track" program to provide liquidity assistance to small- and medium-sized enterprises on an expedited basis. Under the "fast track" program established by Woori Bank, liquidity assistance is provided to small- and medium-sized enterprise borrowers applying for such assistance, in the form of new short-term loans or maturity extensions or interest rate adjustments with respect to existing loans, after expedited credit review and approval. The aggregate amount of outstanding small- and medium-sized enterprise loans made by us under the "fast track" program was \text{\text{W}86} billion as of December 31, 2022, which represented 0.07% of our total small- and medium-sized enterprise loan portfolio as of such date. Furthermore, loans made by us under the "fast track" program are partially guaranteed by the Korean government's public financial institutions, including the Korea Credit Guarantee Fund and the Korea Technology Finance Corporation.

The overall prospects for the Korean economy in 2023 and beyond remain uncertain, especially in light of the COVID-19 pandemic affecting many countries worldwide, including Korea, and the Korean government may extend or renew existing or past policies and initiatives or introduce new policies or initiatives to encourage Korean banks to provide financial support to small- and medium-sized enterprises. See "—Other risks relating to our business—The COVID-19 pandemic has adversely affected and may continue to adversely affect our business, financial condition or results of operations." For example, the Financial Services Commission requested that 15 Korean banks, including Woori Bank, extend special low-rate loans to small merchants affected by the COVID-19 pandemic beginning in April 2020. Such Korean banks, including Woori Bank, provided new loans under such program until January 3, 2022. In addition, Korean financial regulatory authorities, including the Financial Services Commission and the Financial Supervisory Service, adopted guidelines for Korean banks to extend loan terms and defer interest payments with respect to small- and medium sized enterprises and small merchants affected by the COVID-19 pandemic starting from April 2020, but such measures ceased to be effective in September 2022. As of December 31, 2022, the aggregate amount of loans affected by such measures provided by the four major commercial Korean banks, including Woori Bank, Kookmin Bank, KEB Hana Bank and Shinhan Bank, was \dot\dot36.8 trillion, of which \dot\dot11.2 trillion was provided by Woori Bank. In October 2022, the Korean government also launched the New Start Fund, a debt adjustment program, under which pandemic-hit micro-enterprises and self-employed business owners can apply for debt adjustment, and once accepted, will be supported through customized debt adjustment plans according to their respective credit conditions and types of loans. Under the New Start Fund program, the Korean government may purchase the loan directly and then make adjustment, or if the relevant financial institution agrees, allow the relevant financial institution to restructure the loan directly. We believe that, to date, our participation in such government-led initiatives has not caused us to extend a material amount of credit that we would not have otherwise extended nor materially impacted our results of operations and financial condition in general. However, there can be no assurance that our future participation in such government-led initiatives would not lead us to extend credit to small- and medium-sized enterprise borrowers that we would not otherwise extend, or offer terms for such credit that we would not otherwise offer, in the absence of such initiatives. Furthermore, there is no guarantee that the financial condition and liquidity position of our small- and medium-sized enterprise borrowers benefiting from such initiatives will improve sufficiently for them to service their debt on a timely basis, or at all. Accordingly, increases in our exposure to small- and medium-sized enterprises resulting from such government-led initiatives may have a material adverse effect on our results of operations and financial condition.

On October 4, 2022, Woori Bank started to operate a deferment program similar to the "COVID-19 SME and Small Merchant Financial Support Program", which had been established by the Korean government for small- and medium-sized enterprises and small merchants that have been negatively impacted by the COVID-19 pandemic. Under this deferment program, with respect to loans made to borrowers which have been adversely

impacted by the COVID-19 pandemic (excluding loans related to the sale or lease of real property and loans made to borrowers engaged in certain unwholesome businesses), Woori Bank may extend their maturity date up until September 30, 2025, and may defer the borrowers' payment obligation for the interests and principal of such loans up until September 2023.

Many small- and medium-sized enterprises represent sole proprietorships or very small businesses dependent on a relatively limited number of suppliers or customers and tend to be affected by fluctuations in the Korean and global economy to a greater extent than large corporate borrowers. In addition, small- and medium-sized enterprises often maintain less sophisticated financial records than large corporate borrowers. Therefore, it is generally more difficult for us to judge the level of risk inherent in lending to these enterprises, as compared to large corporations. However, in light of the COVID-19 pandemic, the Bank of Korea early implemented the Basel III final reforms in September 2020, which lowered the average risk weight of loans extended to small- and medium-sized enterprises with no credit rating from 100% to 85% in an effort to boost such lending.

In addition, many small- and medium-sized enterprises have close business relationships with large corporations in Korea, primarily as suppliers. Any difficulties encountered by those large corporations would likely harm the liquidity and financial condition of related small- and medium-sized enterprises, including those to which we have exposure, also resulting in an impairment of their ability to repay loans.

Financial difficulties experienced by small- and medium-sized enterprises as a result of, among other things, adverse changes in domestic and global economic conditions, could have an adverse impact on the ability of small- and medium-sized enterprises to make payments on their loans. For example, the COVID-19 pandemic has had a significant adverse impact on the Korean and global economy, including disruptions in supply chains, declines in the sales and deterioration in the financial conditions of small- and medium-sized enterprises. See "—Other risks relating to our business—The COVID-19 pandemic has adversely affected and may continue to adversely affect our business, financial condition or results of operations." In addition, aggressive marketing and competition among banks to lend to this segment may lead to a deterioration in the asset quality of our loans to this segment in the future. Any such deterioration would result in increased charge-offs, higher provisioning and reduced interest and fee income from this segment, which would have an adverse impact on our financial condition and results of operations.

### We have exposure to companies in certain troubled industries, and financial difficulties of these companies may adversely impact us.

As of December 31, 2022, the total amount of loans provided by us to construction, shipbuilding and shipping companies in Korea amounted to \(\foathbf{W}6,022\) billion, \(\foathbf{W}253\) billion and \(\foathbf{W}193\) billion, or 1.7%, 0.1% and 0.1% of our total loans, respectively. We also have other exposures to Korean construction, shipbuilding and shipping companies, including in the form of guarantees extended for the benefit of such companies and debt and equity securities of such companies held by us. In the case of construction companies, we have potential exposure in the form of guarantees provided to us by general contractors with respect to financing extended by us for residential and commercial real estate development projects, as well as commitments to purchase assetbacked securities secured by the assets of companies in the construction industry and other commitments we enter into relating to project financing for such real estate projects which may effectively function as guarantees. In the case of shipbuilding companies, such exposures include refund guarantees extended by us on behalf of shipbuilding companies to cover their obligation to return a portion of the ship order contract amount to customers in the event of performance delays or defaults under shipbuilding contracts.

The construction industry in Korea has undergone significant fluctuations in recent years. Following a period of growth from 2015 to 2018, the construction industry had stagnated from 2019 to 2020, caused mainly by the uncertainty resulting from the Korean government's strengthening of mortgage and other lending regulations to control the rising real property prices. After a brief period of recovery in 2021, the construction industry has again experienced a downturn starting in 2022, caused by the rise in interest rates and the resulting decline in demand for residential property throughout Korea, as well as drastic changes in the price and availability of construction materials due to disruptions in global supply chains caused by the ongoing

invasion of Ukraine by Russia. While the shipbuilding industry has experienced rapid growth in recent years led by an increase in global demand for liquefied natural gas carriers resulting from stronger environmental regulations and global energy security concerns, the prospects for this industry currently remain uncertain given the slowdown in the global economy and a rise in shipbuilding costs and resulting prices. In the case of shipping companies in Korea, the COVID-19 pandemic and the ensuing global lockdown caused a severe downturn in the industry in 2020. Although the industry subsequently showed signs of recovery from the pandemic as the levels of consumer spending and global trade began to rise, the industry currently faces difficulties, among others arising from a deteriorating global economy and disruptions in the global supply chain due to port congestions and the continuing COVID-19 lockdowns in China.

In addition, we have significant exposures to companies in the hotel, leisure and transportation industries, which have been adversely impacted by the COVID-19 pandemic. As of December 31, 2022, the total amount of loans provided by us to companies in the hotel, leisure and transportation industries amounted to an aggregate \text{\text{\text{W}}11,244 billion, or 3.3% of our total loans. While the business activities, results of operations and financial condition of companies in such industries may recover as the impact of the pandemic decreases, the timeline for such recovery remains uncertain, and we may be required to record substantial additional allowances relating to such companies.

The allowance for credit losses that we have established against our credit exposures to companies in the Korean construction, shipbuilding and shipping industries as well as the hotel, leisure and transportation industries may not be sufficient to cover all future losses arising from these and other exposures. If the credit quality of our exposures to such companies declines further, we may incur substantial additional provisions for credit loss, which could adversely impact our results of operations and financial condition. Furthermore, although a portion of our loans to companies in the construction, shipbuilding and shipping industries as well as the hotel, leisure and transportation industries are secured by collateral, such collateral may not be sufficient to cover uncollectible amounts in respect of such loans.

### A large portion of our exposure is concentrated in a relatively small number of large corporate borrowers, which increases the risk of our corporate credit portfolio.

As of December 31, 2022, our 20 largest exposures to corporate borrowers (including loans, debt and equity securities, credit-related commitments and other exposures) totaled \(\fomathbf{W}66,929\) billion, which represented 12.1% of our total exposures. As of that date, our single largest corporate exposure was to Korea Development Bank, to which we had outstanding credits in the form of debt securities of \(\fomathbf{W}14,123\) billion and loans in Won of \(\fomathbf{W}165\) billion, representing 2.6% of our total exposures in the aggregate. Aside from exposure to the Korean government and government-related agencies, our next largest exposure was to Kookmin Bank, to which we had outstanding exposure of \(\fomathbf{W}1,028\) billion representing 0.2% of our total exposures. Any deterioration in the financial condition of our large corporate borrowers, including those in industries particularly affected by the COVID-19 pandemic or to which we have significant exposures such as the hotel, leisure and transportation industries, the retail and wholesale industries and the manufacturing industry, may require us to record substantial additional allowances and may have a material adverse impact on our results of operations and financial condition.

### We have exposure to the largest Korean commercial conglomerates, known as "chaebols," and, as a result, financial difficulties of chaebols may have an adverse impact on us.

The allowances we have established against these exposures may not be sufficient to cover all future losses arising from these exposures. In addition, in the case of any of these companies that are currently in or in the future may enter into workout, restructuring, reorganization or liquidation proceedings, our recoveries from those companies may be limited. We may, therefore, experience future losses with respect to these exposures.

We have exposure to companies that are currently or may in the future be put in restructuring and may suffer losses as a result of additional provisions for credit loss required or the adoption of restructuring plans with which we do not agree.

As of December 31, 2022, our credit exposures to companies that were in workout or corporate restructuring amounted to \text{\$\cupsuress\*} 186 billion or 0.03% of our total credit exposures, of which \text{\$\cupsuress\*} 127 billion or 68.3% was classified as substandard or below and substantially all of which was classified as impaired. As of the same date, our allowance for credit losses on these credit exposures amounted to \text{\$\cupsuress\*} 65 billion, or 34.9% of these exposures. These allowances may not be sufficient to cover all future losses arising from our credit exposure to these companies. Furthermore, we have other exposure to such companies in the form of debt and equity securities of such companies held by us (including equity securities we acquired as a result of debt-to-equity conversions). Including such securities, our exposures as of December 31, 2022 to companies in workout or restructuring amounted to \text{\$\cupsuress\*} 186 billion, or 0.03% of our total exposures. Our exposures to such companies may also increase in the future, including as a result of adverse conditions in the Korean economy. In addition, in the case of borrowers that are or become subject to workout, we may be forced to restructure our credits pursuant to restructuring plans approved by other creditor financial institutions of the borrower, or to dispose of our credits to other creditors on unfavorable terms, which may adversely affect our results of operations and financial condition.

### Risks relating to our consumer credit portfolio

We may experience increases in delinquencies in our consumer loan and credit card portfolios.

The growth in our consumer loan portfolio in recent years, together with adverse changes in economic conditions in Korea and globally, may lead to increasing delinquencies and a deterioration in asset quality. The amount of our consumer loans classified as substandard or below was \(\pi\)354 billion (or 0.2% of our consumer loan portfolio) as of December 31, 2021 and \(\pi\)392 billion as of December 31, 2022 (or 0.3% of our consumer loan portfolio). We charged off consumer loans amounting to \(\pi\)161 billion in 2022, as compared to \(\pi\)173 billion in 2021 and \(\pi\)182 billion in 2022, as compared to \(\pi\)168 billion in 2021 and \(\pi\)131 billion in 2020. Within our consumer loan portfolio, the outstanding balance of general purpose household loans, which, unlike mortgage or home equity loans, are often unsecured and therefore tend to carry a higher credit risk, amounted to \(\pi\)32,003 billion, or 21.6% of our total outstanding consumer loans, as of December 31, 2021 and \(\pi\)28,694 billion, or 19.9% of our total outstanding consumer loans, as of December 31, 2022.

In our credit card segment, outstanding balances overdue by more than one month amounted to \text{\text{W}79} billion, or 0.8% of our credit card receivables, as of December 31, 2021 and \text{\text{\text{W}143} billion, or 1.4% of our credit card receivables, as of December 31, 2022. In line with industry practice, we have restructured a portion of our delinquent credit card account balances as loans. As of December 31, 2022, these restructured loans amounted to \text{\text{\text{W}134} billion, or 1.3% of our credit card balances. Because these restructured loans are not initially recorded as being delinquent, our delinquency ratios do not fully reflect all delinquent amounts relating to our credit card balances. Including all restructured loans, outstanding balances overdue by more than one month accounted

A deterioration of the asset quality of our consumer loan and credit card portfolios would require us to record increased provisions for credit loss and charge-offs and adversely affect our financial condition and results of operations. In addition, our large exposure to consumer loans means that we are exposed to changes in economic conditions affecting Korean consumers. Accordingly, economic difficulties in Korea that harm those consumers could result in further deterioration in the credit quality of our consumer loan and credit card portfolios. For example, the severe impact of the COVID-19 pandemic on Korea's economy may disrupt the business, activities and operations of our consumers, which in turn could result in a significant decrease in the number of financial transactions or the inability of our consumers to meet existing payment or other obligations to us. In addition, a rise in unemployment or an increase in interest rates in Korea could adversely affect the ability of consumers to make payments and increase the likelihood of potential defaults. See "Risks relating to Korea—Unfavorable financial and economic developments in Korea may have an adverse effect on us."

In addition, we are exposed to changes in regulations and policies on consumer lending by the Korean government, which may adopt measures to restrict consumer lending or encourage financial institutions to provide financial support to certain types of retail borrowers. In 2014 and 2015, the Korean government implemented several measures to encourage consumer spending and revive the housing market in Korea, including loosening regulations on mortgage lending, which contributed to an increase in our portfolio of consumer loans. However, the Korean government introduced various measures from the second half of 2016 to 2021 to tighten regulations on mortgage and other lending and housing subscription in response to the rapid growth in consumer debt and concerns over speculative investments in real estate in certain areas. Although the Korean government has since begun to reverse some of these measures by introducing a number of policy measures that seek to sustain housing prices and activity levels in the Korean real estate market over the course of 2022, the impact of such policy measures are not yet clear. A decrease in housing prices, together with the high level of consumer debt and rising interest rate levels, could result in declines in consumer spending and reduced economic growth, which may lead to increases in delinquency levels of our consumer loan and credit card portfolios.

Under a pre-workout program established by Korean banks for retail borrowers with outstanding short-term debt, including Woori Bank, which has been in operation since April 2009, maturity extensions and/or interest reductions are provided to retail borrowers with total loans of \(\foathbf{W}1.5\) billion or less (consisting of no more than \(\foathbf{W}500\) million of unsecured loans and \(\foathbf{W}1\) billion of secured loans) who are in arrears on their payments for more than 30 days but less than 90 days or for retail borrowers with an annual income of \(\foatbf{W}40\) million or less who have been in arrears on their payments for 30 days or more on an aggregate basis for the 12 months prior to their application, among others. The aggregate amount of consumer credit (including credit card receivables) we provided which became subject to the pre-workout program in 2022 was \(\foatbf{W}53\) billion. While we believe that our operation of the pre-workout program has not had a material impact on the overall credit quality of our consumer loan and credit card portfolios to date, our participation in such government-led initiatives to provide financial support to retail borrowers may lead us to offer credit terms for such borrowers that we would not otherwise offer in the absence of such initiatives, which may have an adverse effect on our results of operations and financial condition.

# A decline in the value of the collateral securing our consumer loans and our inability to realize full collateral value may adversely affect our consumer credit portfolio.

A substantial portion of our consumer loans is secured by real estate, the values of which have fluctuated significantly in recent years. Although it is our general policy to lend up to 70% of the appraised value of collateral (except in certain regulated areas designated by the government where we generally limit our lending

to 50% of the appraised value of collateral, and for first-time homebuyers, we may lend up to 80% of the appraised value of collateral) and to periodically re-appraise our collateral, a downturn in the real estate markets in Korea may result in a decline in the value of the collateral securing our mortgage and home equity loans. If collateral values decline in the future, they may not be sufficient to cover uncollectible amounts in respect of secured loans extended by us. Any declines in the value of the real estate or other collateral securing our consumer loans, or our inability to obtain additional collateral in the event of such declines, could result in a deterioration in our asset quality and may require us to record additional allowances for credit losses.

In Korea, foreclosure on collateral generally requires a written petition to a court. An application, when made, may be subject to delays and administrative requirements that may decrease the value of such collateral. We cannot guarantee that we will be able to realize the full value on our collateral as a result of, among other factors, delays in foreclosure proceedings and defects in the perfection of our security interest in collateral. Our failure to recover the expected value of collateral could expose us to potential losses.

#### Risks relating to our financial holding company structure and strategy

We may not succeed in implementing our strategy to take advantage of, or fail to realize the anticipated benefits of, our financial holding company structure.

We were established as a new financial holding company in January 2019 pursuant to a "comprehensive stock transfer" under Korean law, following the completion of which Woori Bank, Woori FIS Co., Ltd., Woori Finance Research Institute Co., Ltd., Woori Credit Information Co., Ltd., Woori Fund Services Co., Ltd. and Woori Private Equity Asset Management Co., Ltd. became our wholly-owned subsidiaries. See "Item 4A. History and Development of the Company—Establishment of Woori Financial Group."

One of our principal strategies is to take advantage of our financial holding company structure to become a comprehensive financial services provider capable of developing and cross-selling a diverse range of products and services to our large existing base of retail and corporate banking customers. An intended benefit of our financial holding company structure is that it enhances our ability to engage in mergers and acquisitions which we may decide to pursue as part of our strategy. Accordingly, we may consider acquiring or merging with other financial institutions, particularly in the non-banking sector, to achieve more balanced growth and further diversify our revenue base. We may also continue to seek opportunities to expand our operations in markets outside Korea. See "Item 4.B. Business Overview—Strategy" and "—We may not be able to successfully execute our overseas expansion strategy."

The integration of companies we may acquire or merge with in the future under our financial holding company structure could require a significant amount of time, financial resources and management attention. Moreover, that process could place a burden on our operations (including our risk management operations) or information technology systems, reduce employee morale, produce unintended inconsistencies in our standards, controls, procedures or policies, and affect our relationships with customers and our ability to retain key personnel. The realization of the anticipated benefits of our financial holding company structure may be blocked, delayed or reduced as a result of many factors, some of which may be outside our control. These factors include:

- competition from other financial institutions, as well as private equity firms and other potential acquirers, in Korea and elsewhere in terms of identifying and winning bids for attractive merger and acquisition targets in the financial industry, including the non-banking sector, which may make it challenging for us to successfully acquire, or which may require us to pay a high acquisition price for, such targets;
- difficulties in integrating the diverse activities and operations of our subsidiaries or any companies we
  may acquire, including risk management operations and information technology systems, personnel,
  policies and procedures;
- difficulties in reorganizing or reducing overlapping personnel, branches, networks and administrative functions;

- restrictions under the Financial Holding Company Act and other regulations on transactions between a financial holding company and, or among, its subsidiaries;
- failure to leverage our financial holding company structure to realize operational efficiencies and to cross-sell multiple products and services;
- unforeseen contingent risks, including lack of required capital resources, increased tax liabilities or restrictions in our overseas operations, relating to our financial holding company structure;
- unexpected business disruptions;
- failure to attract, develop and retain personnel with necessary expertise;
- loss of customers; and
- · labor unrest.

Accordingly, we may not be able to realize the anticipated benefits of our financial holding company structure, and our business, results of operations and financial condition may suffer as a result.

#### We depend on limited forms of funding to fund our operations at the holding company level.

We are a financial holding company with no significant assets other than the shares of our subsidiaries. Our primary sources of funding and liquidity are dividends from our subsidiaries, sales of interests in our subsidiaries and direct borrowings and issuances of equity or debt securities at the holding company level. In addition, as a financial holding company, we are required to meet certain minimum financial ratios under Korean law, including with respect to liquidity and capital adequacy. Our ability to meet our obligations to our direct creditors and employees and our other liquidity needs and regulatory requirements at the holding company level depends on timely and adequate distributions from our subsidiaries and our ability to sell our securities or obtain credit from our lenders.

The ability of our subsidiaries to pay dividends to us depends on their financial condition and operating results. In the future, our subsidiaries may enter into agreements, such as credit agreements with lenders or indentures relating to high-yield or subordinated debt instruments, that impose restrictions on their ability to make distributions to us, and the terms of future obligations and the operation of Korean law could prevent our subsidiaries from making sufficient distributions to us to allow us to make payments on our outstanding obligations. See "—As a financial holding company, we largely depend on receiving dividends from our subsidiaries to pay dividends on our common stock." Any delay in receipt of or shortfall in payments to us from our subsidiaries could result in our inability to meet our liquidity needs and regulatory requirements, including minimum liquidity and capital adequacy ratios, which may disrupt our operations at the holding company level.

In addition, our creditors will generally not be able to assert claims on the assets of our subsidiaries. Furthermore, our inability to sell our securities or obtain funds from our lenders on favorable terms, or at all, could also result in our inability to meet our liquidity needs and regulatory requirements and may disrupt our operations at the holding company level.

### As a financial holding company, we largely depend on receiving dividends from our subsidiaries to pay dividends on our common stock.

Since our principal assets at the holding company level are the shares of our subsidiaries, our ability to pay dividends on our common stock largely depends on dividend payments from those subsidiaries. Those dividend payments are subject to the Korean Commercial Code, the Bank Act and regulatory limitations, generally based on capital levels and retained earnings, imposed by the various regulatory agencies with authority over those entities. The ability of our subsidiaries to pay dividends may be subject to regulatory restrictions to the extent that paying dividends would impair their respective non-consolidated profitability, financial condition or other cash flow needs. For example:

• under the Korean Commercial Code, dividends may only be paid out of distributable income, an amount which is calculated by subtracting the aggregate amount of a company's paid-in capital and certain

- mandatory legal reserves as well as certain unrealized profits from its net assets, in each case as of the end of the prior fiscal period;
- under the Bank Act, a bank also must credit at least 10% of its net profit to a legal reserve each time it
  pays dividends on distributable income until that reserve equals the amount of its total paid-in capital;
  and
- under the Bank Act and the requirements of the Financial Services Commission, if a bank fails to meet
  its required capital adequacy ratio or otherwise becomes subject to management improvement measures
  imposed by the Financial Services Commission, then the Financial Services Commission may restrict
  the declaration and payment of dividends by that bank.

Our subsidiaries may not continue to meet the applicable legal and regulatory requirements for the payment of dividends in the future. If they fail to do so, they may stop paying or reduce the amount of the dividends they pay to us, which would have an adverse effect on our ability to pay dividends on our common stock.

### The implementation of the Korean government's privatization plan may have an adverse effect on us and your interests as a shareholder.

In June 2013, the Korean government, through the Public Funds Oversight Committee of the Financial Services Commission, announced an updated plan to privatize Woori Finance Holdings, Woori Bank's former parent company, and its former subsidiaries. The privatization plan provided for the segregation of such entities into three groups and the disposal of the Korean government's interest in these entities held through the Korea Deposit Insurance Corporation, or the KDIC, in a series of transactions, most of which have been completed. Such transactions included the following:

- Kwangju Bank and Kyongnam Bank. In May 2014, Woori Finance Holdings established KJB Financial Group and KNB Financial Group through a spin-off of its businesses related to the holding of the shares and thereby controlling the business operations of Kwangju Bank and Kyongnam Bank, respectively. As a result of such spin-off, KJB Financial Group became the owner of the shares of Kwangju Bank previously held by Woori Finance Holdings and KNB Financial Group became the owner of the shares of Kyongnam Bank previously held by Woori Finance Holdings. Woori Finance Holdings no longer owned any shares of Kwangju Bank or Kyongnam Bank, and neither they nor their new holding companies were its subsidiaries, after the spin-off. Following such spin-off, each of these banks was merged with its holding company, and in October 2014, the KDIC sold its 56.97% ownership interest in Kwangju Bank and Kyongnam Bank to JB Financial Group and BNK Financial Group (formerly known as BS Financial Group), respectively.
- Woori Investment & Securities and Other Subsidiaries. In March 2014, Woori Finance Holdings sold its 52.0% ownership interest in Woori Financial to KB Financial Group. In May 2014, Woori Finance Holdings sold its 100.0% ownership interest in Woori Asset Management to Kiwoom Securities and sold its 100.0% ownership interest in Woori F&I to Daishin Securities. In June 2014, Woori Finance Holdings sold its 37.9% ownership interest in Woori Investment & Securities, its 51.6% ownership interest in Woori Aviva Life Insurance and its 100.0% ownership interest in Woori FG Savings Bank to NongHyup Financial Group in a collective sale. As a result of such sales, Woori Investment & Securities, Woori Asset Management, Woori Aviva Life Insurance, Woori FG Savings Bank, Woori F&I and Woori Financial were no longer subsidiaries of Woori Finance Holdings, and it no longer owned any shares in such former subsidiaries.
- Woori Bank. In November 2014, Woori Finance Holdings merged with and into Woori Bank. As a result of the merger, the other former subsidiaries of Woori Finance Holdings, including Woori Card, Woori Private Equity, Woori FIS, Woori Investment Bank and Woori Finance Research Institute, became Woori Bank's subsidiaries. In December 2014, the KDIC sold 40,143,022 shares of Woori Bank's common stock (representing 5.9% of its outstanding common stock) through a bidding process in Korea. In addition, in December 2016 and January 2017, the KDIC sold an aggregate of 200,685,395

shares of Woori Bank's common stock (representing 29.7% of its outstanding common stock) in stakes ranging from 3.7% to 6.0% to seven financial companies through a bidding process. In 2017, pursuant to a series of transactions related to call options previously granted in connection with the KDIC's sale of Woori Bank's common stock in December 2014, the KDIC sold an aggregate of 19,852,364 shares of Woori Bank's common stock (representing 2.9% of its outstanding common stock). As a result of such transactions, the KDIC's ownership interest in Woori Bank was reduced to 18.4%.

• Woori Financial Group. In connection with our establishment in January 2019 as a new financial holding company pursuant to a "comprehensive stock transfer" under Korean law, the KDIC received 124,604,797 shares of our outstanding common stock in exchange for the common stock of Woori Bank it owned. In June 2019, the Financial Services Commission approved the KDIC's plan to sell all such common stock in multiple transactions by 2022. In April 2021, pursuant to this plan, the KDIC sold an aggregate of 14,445,354 shares of our common stock (representing 2.0% of our outstanding common stock) in a block trade. In December 2021, the KDIC sold an aggregate 9.3% of our outstanding common stock in stakes ranging from 1.0% to 4.0% to four companies and 1.0% to our employee stock ownership association. In February 2022, the KDIC sold an aggregate of 15,860,000 shares of our common stock (representing 2.2% of our outstanding common stock) in a block trade. The KDIC further sold an aggregate of 17,000,000 shares, or 2.3%, of Woori Financial Group's outstanding common stock in a block trade in May 2022. As a result of such transactions, the KDIC currently owns 1.3% of our outstanding common stock.

See "Item 4.A. History and Development of the Company—Privatization Plan."

The implementation of the Korean government's privatization plan, including the expected sale of the KDIC's remaining ownership interest in us to third parties, may have an adverse effect on us and your interest as a shareholder. Although the KDIC has already disposed of most of its ownership interest in us, the KDIC's sale of its remaining interest to third parties may affect our business, management, strategy, capital structure and assets and liabilities and lead to diversion of management attention, a loss of customers and labor unrest. There is also no guarantee that prior sales by KDIC of its ownership interest in us will not result in unintended adverse tax consequences for us and our subsidiaries, as well as our shareholders. See "—Risks relating to our common stock and ADSs—Prior sales by the KDIC of shares of our common stock may result in adverse Korean tax consequences for you." Accordingly, the implementation of the privatization plan may have a material adverse effect on the trading price of our common stock and American depositary shares, or ADSs, and your interests as a shareholder.

#### We may not be able to successfully execute our overseas expansion strategy.

As part of our business strategy, we have been seeking opportunities to expand our operations in markets outside Korea, including through the opening of additional overseas branches and offices as well as strategic acquisitions and investments, particularly in South and Southeast Asia. For example, Woori Bank expanded its network of branches to India, where it established branches in Chennai, Gurgaon and Mumbai from 2012 to 2017. In October 2016, Woori Bank acquired a 51% equity interest in Wealth Development Bank, a thrift bank in the Philippines. In November 2016, Woori Bank obtained a banking license to establish a local subsidiary in Vietnam, Woori Bank Vietnam, which commenced operations in January 2017 and currently operates 20 branches throughout the country. In June 2018, Woori Bank acquired VisionFund (Cambodia) Ltd., a microfinance deposit-taking institution in Cambodia, and renamed it WB Finance Co., Ltd. In February 2020, WB Finance Co., Ltd. merged with Woori Finance (Cambodia) Plc., a Cambodian microfinance institution, and in November 2021, it obtained a commercial banking license from the Cambodian financial authorities and began its nationwide operations as Woori Bank (Cambodia) PLC. Notwithstanding the foregoing, the expansion of our operations abroad may be difficult due to the presence of established competitors in the relevant local markets. In addition, overseas expansion and the management of international operations may require significant financial expenditures as well as management attention, and will subject us to the challenges of operating in an unfamiliar business environment with different regulatory, legal and taxation systems and political, economic and social

risks. Accordingly, there is no guarantee that we will be successful in executing our overseas expansion strategy. The failure of our overseas expansion strategy could have an adverse impact on our business, results of operations and financial condition.

#### We may not generate sufficient additional fees to achieve our revenue diversification strategy.

An important element of our overall strategy is increasing our fee income in order to diversify our revenue base. Historically, our primary source of revenues has been net interest income from our banking operations at Woori Bank. Our current sources of fee income include our investment banking, asset management, assets trustee, currency transfers and lending businesses. However, to date, except for fees collected in connection with certain of our services including investment banking, asset management and currency transfers (including foreign exchange-related commissions), we have not generated substantial fee income. We intend to continue to develop new sources of fee income as part of our business strategy, including through our current investment banking, asset management, assets trustee and lending businesses, as well as through merger with or acquisition of non-banking businesses which we may decide to pursue. For example, in March 2023, we acquired a 52% equity interest as well as the management rights in Daol Investment, which is a venture capital company with \(\formall 1.4\) trillion of assets under its management. See "Item 4.B. Business Overview-Strategy." However we may not be successful in our efforts to develop new sources of fee income, and the new sources of fee income we have developed may not generate sufficient additional fees to achieve our revenue diversification strategy. Although we, like many other Korean financial institutions, have begun to charge fees to our customers more regularly, customers may prove unwilling to pay additional fees, even in exchange for more attractive value-added services, and their reluctance to do so would adversely affect the implementation of our strategy to increase our fee income. Furthermore, the fees that we charge to customers are subject to regulation by Korean financial regulatory authorities, which may seek to implement regulations or measures that may have an adverse impact on our ability to achieve this aspect of our strategy.

#### Risks relating to competition

### Competition in the Korean financial industry is intense, and we may lose market share and experience declining margins as a result.

Competition in the Korean financial market has been and is likely to remain intense. Some of the financial institutions that we compete with are larger in terms of asset size and customer base and have longer operating histories as financial holding companies, greater financial resources or more specialized capabilities than us and our subsidiaries. In addition, in the area of our core banking operations, most Korean banks have been focusing on retail customers and small- and medium-sized enterprises in recent years, although they have begun to generally increase their exposure to large corporate borrowers, and have been focusing on developing fee income businesses as increasingly important sources of revenue. In the area of credit cards, increased competition in the payments market and the resulting increase in our marketing activities, as well as the general trend towards lower merchant fees, are adversely affecting profits in the segment. In our new capital segment, our profitability may be adversely affected by increasing competition in the automobile finance and lease finance markets. The competition and market saturation resulting from this common focus may make it more difficult for us to secure retail, small- and medium-sized enterprise and large corporate customers with the credit quality and on credit terms necessary to maintain or increase our income and profitability.

In addition, the introduction of Internet-only banks in Korea is expected to increase competition in the Korean banking industry. Internet-only banks generally operate without branches and conduct most of their operations through electronic means, which enable them to minimize costs and offer customers higher interest rates on deposits or lower lending rates. In April 2017, Kbank, the first Internet-only bank in Korea, in which Woori Bank owns 12.6% of the equity with voting rights as of December 31, 2022, commenced operations. Kakao Bank and Toss Bank, both mobile-only banks, commenced operations in July 2017 and October 2021, respectively.

Furthermore, the following general regulatory reforms in the Korean financial industry have increased competition among banks and other financial institutions in Korea:

- In the second half of 2015, the Korean government implemented measures to facilitate bank account portability of retail customers by requiring commercial banks to establish systems that allow retail customers to easily switch their bank accounts at one commercial bank to another and automatically transfer the automatic payment settings of their former accounts to the new ones.
- In March 2016, the Financial Services Commission introduced an individual savings account scheme in Korea, which enables individuals to efficiently manage a wide range of retail investment vehicles, including cash deposits, investment funds and securities investment products, from a single integrated account with one financial institution and offers tax benefits on investment returns. Since the scheme backed by the Korean government allows only one individual savings account per person, financial institutions have been competing to retain existing customers and attract new customers since the launch of the individual savings account scheme. Over 30 financial institutions, including banks, securities companies and insurance companies, have registered with the Financial Services Commission to sell their individual savings account products, and we expect fierce competition among these institutions.
- In April 2019, the Financial Services Commission approved and is currently conducting test procedures for a financial regulatory sandbox, a framework set up to allow financial services providers to test new business models in a less regulated environment, as part of its efforts to work closely with the fintech sector and provide support to facilitate its development. A variety of financial services have been similarly approved for such testing under the financial regulatory sandbox.
- In December 2019, the Financial Services Commission launched an "open banking" system, which allows customers to view banking account information and make wire transfers, regardless of institution, through a single mobile application. This integrated system is expected to allow fintech firms to share payment networks with banks, thereby lowering transaction fees and encouraging the development of new payment services.
- In August 2020, amendments to the Credit Information Use and Protection Act established the framework for MyData services in Korea, which allow the collection of customers' personal credit information from credit information providers/users or public institutions upon the customer's request and subject to compliance requirements, so that customers may access such collected personal credit information in whole or in part. In January 2021, the Financial Services Commission granted licenses to 28 companies to operate as MyData service providers, 14 of which were fintech firms. Competition between traditional financial institutions and fintech firms is expected to intensify, particularly with respect to the relevant asset management services. As of December 31, 2022, 64 companies, including 23 fintech companies, have been granted a MyData license. MyData services are currently offered through Woori WON Banking, Woori Bank's main mobile banking application, as well as through Woori Card's mobile application.
- In March 2023, the Financial Services Commission and the Financial Supervisory Service jointly hosted the initial working group meeting of a task force committed to improving the management and operating practices of banks and banking system. One of the goals of the task force is to promoting competition in the banking sector. During the initial working group meeting, authorities discussed ways to allow entry of new banks and boost competition between banks and nonbanks. These measures under discussion include, without limitation, (1) introducing small licensing units and small-scale specialized banks, (2) allowing entry of additional internet-only banks, regional banks and nation-wide banks, (3) converting mutual savings banks into regional banks and regional banks into nation-wide banks, (4) allowing credit card companies to provide comprehensive payment settlement services, (5) allowing securities firms to provide payment settlement services to corporate entities, (6) permitting insurance companies to concurrently operate payment settlement services, (7) expanding banks' loans to small and medium-sized enterprises and small-loans to lower-income groups, and (8) extending nonbanks' scope of services in handling policy fund loans and policy mortgages. The task force has held and will hold

future working group meetings to discuss these issues and we expect that they will develop specific measures to increase competition in the banking sector in the near future. In addition, in February 2023, the Korea Fair Trade Commission conducted on-site examinations of the major banks, including us, to determine whether the banks have engaged in unfair trade practices.

Overall, we expect that such measures may not only intensify competition among traditional financial institutions in Korea, but also allow new market participants such as fintech firms to potentially gain market share in certain areas in which we operate.

The Korean financial industry is undergoing significant consolidation through which the number of nationwide commercial banks in Korea has significantly decreased since the financial crisis in Korea in the late 1990s. A number of significant mergers and acquisitions in the financial industry have also taken place in Korea in recent years, including the merger of Hana Bank into Korea Exchange Bank in 2015, KB Financial Group's acquisition of Hyundai Securities Co., Ltd. in 2016 and the subsequent merger of Hyundai Securities with and into KB Investment & Securities Co., Ltd. in 2016. In 2016, Mirae Asset Securities Co., Ltd. acquired a 43% interest in KDB Daewoo Securities Co., Ltd., and subsequently merged with and into Mirae Asset Securities. In 2014, pursuant to the implementation of the Korean government's privatization plan with respect to Woori Finance Holdings and its former subsidiaries, Woori Financial, Woori Asset Management and Woori F&I were acquired by KB Financial Group, Kiwoom Securities and Daishin Securities, respectively, and Woori Investment & Securities, Woori Aviva Life Insurance and Woori FG Savings Bank were acquired by NongHyup Financial Group. In addition, in October 2014, the KDIC's ownership interest in Kwangju Bank and Kyongnam Bank were acquired by JB Financial Group and BNK Financial Group (formerly known as BS Financial Group), respectively. See "Item 4.A. History and Development of the Company—Privatization Plan." In 2020, Hana Financial Group acquired The-K Non-Life Insurance Co., Ltd. to form Hana Insurance Co., Ltd. Orange Life Insurance, Ltd. (formerly known as ING Life Insurance Korea, Ltd.) became a wholly-owned subsidiary of Shinhan Financial Group following the acquisition of equity interests by Shinhan Financial Group in February 2019 and January 2020, which subsequently merged with and into Shinhan Life Insurance Co., Ltd. in July 2021. In 2020, Shinhan Financial Group acquired the venture capital firm Neoplux. In January 2022, Shinhan Financial Group's subsidiary, Shinhan Asset Management Co., Ltd., merged with Shinhan Alternative Investment Management Inc. In July 2022, Shinhan Financial Group acquired BNP Paribas Cardif General Insurance, and established Shinhan EZ General Insurance. In 2020, KB Financial Group acquired The Prudential Life Insurance Company of Korea Ltd., which merged with KB Life Insurance in January 2023, with the surviving entity's name changed to KB Life Insurance Co., Ltd.

We expect that consolidation in the Korean financial industry will continue. Other financial institutions may seek to acquire or merge with other entities, and the financial institutions resulting from such consolidation may, by virtue of their increased size and business scope, provide significantly greater competition for us. We also believe that foreign financial institutions, many of which have greater experience and resources than we do, may seek to compete with us in providing financial products and services either by themselves or in partnership with existing Korean financial institutions. Increased competition and continuing consolidation may lead to decreased margins, resulting in a material adverse impact on our future profitability. Accordingly, our results of operations and financial condition may suffer as a result of increasing competition in the Korean financial industry.

### Competition for customer deposits may increase, resulting in a loss of our deposit customers or an increase in our funding costs.

In recent years, we have faced increasing pricing pressure on deposit products from our competitors. If we do not continue to offer competitive interest rates to our deposit customers, we may lose their business. In addition, even if we are able to match our competitors' pricing, doing so may result in an increase in our funding costs, which may have an adverse impact on our results of operations.

### Other risks relating to our business

The COVID-19 pandemic has adversely affected and may continue to adversely affect our business, financial condition or results of operations.

COVID-19, an infectious disease caused by severe acute respiratory syndrome coronavirus 2, has spread globally and was declared a "pandemic" by the World Health Organization in March 2020. The global outbreak of COVID-19 has led to global economic and financial disruptions and has adversely affected our business operations. We have been subjected to and remain subject to a number of related risks, including but not limited to:

- an increase in defaults on loan payments from our customers who may not be able to meet payment
  obligations, which may lead to an increase in delinquency ratios and a deterioration in asset quality,
  resulting in increased charge-offs, higher provisioning and reduced interest and fee income;
- decreases in interest rates followed by recent increases in interest rates worldwide (see "—An increase
  in interest rates would decrease the value of our debt securities portfolio and raise our funding costs
  while reducing loan demand and the repayment ability of our borrowers, which could adversely affect
  us");
- depreciation of the Won against major foreign currencies, which may increase our costs in servicing foreign currency-denominated debt and result in foreign exchange losses (see "—Unfavorable changes in the global financial markets could adversely affect our results of operations and financial condition");
- impairments in the fair value of our investments in companies that may be adversely affected by the pandemic;
- disruption in the normal operations of our business resulting from the contraction of the disease by our
  employees or customers, which may necessitate our employees to be quarantined and/or our offices or
  branches to be temporarily shut down; and
- disruption resulting from the necessity for social distancing, including, for example, temporary arrangements for employees to work remotely, which may lead to a reduction in labor productivity.

The impact of the COVID-19 outbreak had a negative impact on our results of operations in 2022 and may continue to do so in the future, but it is not possible to predict the duration or the full magnitude of the overall harm that may result from the COVID-19 outbreak in the long term.

In addition, in response to the outbreak, Korean financial regulatory authorities, including the Financial Services Commission and the Financial Supervisory Service, have adopted policies for Korean banks to provide relief or assistance to customers. For example, the Korean government has implemented policies to extend loan terms and defer payments on interest and principal with respect to certain borrowers. In particular, in April 2020, the Korean government established the "COVID-19 SME and Small Merchant Financial Support Program" for small- and medium-sized enterprises and small merchants that are in good standing and have been negatively impacted by the COVID-19 pandemic (which excludes consumer loans and loans relating to the sale or leasing of real estate). As of December 31, 2022, our total loans (including payment guarantees) subject to this program amounted to \(\forall \)2,177 billion. Although the program was originally scheduled to expire in September 2021, it has been extended four times before being terminated in September 2022.

On October 4, 2022, Woori Bank started to operate a deferment program similar to the "COVID-19 SME and Small Merchant Financial Support Program". Under this deferment program, with respect to loans made to borrowers which have been adversely impacted by the COVID-19 pandemic (excluding loans related to the sale or lease of real property and loans made to borrowers engaged in certain unwholesome businesses), Woori Bank may extend their maturity date up until September 30, 2025, and may defer the borrowers' payment obligation for the interests and principal of such loans up until September 2023. In October 2022, the Korean government also launched the New Start Fund, a debt adjustment program, under which pandemic-hit micro-enterprises and self-employed business owners can apply for debt adjustment, and once accepted, will be supported through

customized debt adjustment plans according to their respective credit conditions and types of loans. Under the New Start Fund program, the Korean government may purchase the loan directly and then make adjustment, or if the relevant financial institution agrees, allow the relevant financial institution to restructure the loan directly. See "—Risks relating to our corporate credit portfolio—The largest portion of our credit exposure is to small-and medium-sized enterprises, and financial difficulties experienced by companies in this segment may result in a deterioration of our asset quality and have an adverse impact on us."

We and our subsidiaries have also implemented additional measures, both financial, such as offering discounts on the interest rates of certain loans and waiving ATM transaction fees in certain areas in Korea affected by COVID-19, and non-financial, such as installing acrylic transparent barriers in our branches and distributing masks to protect our customers and workforce. We have also established a group emergency management committee to accurately assess the relevant risks, proactively develop countermeasures and enhance reporting and communication systems on a group-wide basis. Notwithstanding such efforts, in the event that COVID-19 or other types of widespread infectious diseases cannot be effectively and timely contained, our business, financial condition, results of operations and cash flows may continue to be adversely affected.

### Unfavorable changes in the global financial markets could adversely affect our results of operations and financial condition.

The overall prospects for the Korean and global economy in 2023 and beyond remain uncertain. In recent years, the global financial markets have experienced significant volatility as a result of, among other things:

- the occurrence of severe health epidemics, such as the COVID-19 pandemic;
- hostilities, political or social tensions involving Russia (including the invasion of Ukraine by Russia and
  ensuing actions that the United States and other countries have taken or may take in the future) and the
  resulting adverse effects on the global supply of oil and other natural resources and the global financial
  markets;
- interest rate fluctuations as well as changes in policy rates by the U.S. Federal Reserve and other central banks, a rise in inflation rates and volatility in stock markets and exchange rates worldwide;
- financial and social difficulties affecting many countries worldwide, in particular in Latin America and Europe;
- adverse developments in the financial markets and industry, in particular those faced by several banks in the United States and Europe;
- a deterioration in economic and trade relations between the United States and its major trading partners, including China;
- escalations in trade protectionism globally and geopolitical tensions in East Asia and the Middle East;
- · the slowdown of economic growth in China and other major emerging market economies; and
- political and social instability in various countries in the Middle East, including Iran, Syria, Iraq and Egypt.

In light of the high level of interdependence of the global economy, unfavorable changes in the global financial markets, including as a result of any of the foregoing developments, could have a material adverse effect on the Korean economy and financial markets, and in turn on our business, financial condition and results of operations.

We are also exposed to adverse changes and volatility in the global and Korean financial markets as a result of our liabilities and assets denominated in foreign currencies and our holdings of trading and investment securities, including structured products. The value of the Won relative to major foreign currencies in general and the U.S. dollar in particular has fluctuated widely in recent years and has been subject to significant volatility as a result of the COVID-19 pandemic, the invasion of Ukraine by Russia and the ensuing sanctions against Russia

and, more recently, the widening difference in policy rates between the United States and Korea. A depreciation of the Won will increase our cost of servicing our foreign currency-denominated debt, while continued exchange rate volatility may also result in foreign exchange losses for us. Furthermore, as a result of the deterioration in global and Korean economic conditions, there has been downward pressure on securities prices, including the stock prices of Korean and foreign companies in which we hold an interest. Such developments have resulted in and may lead to further trading and valuation losses on our trading and investment securities portfolio as well as impairment losses on our investments in joint ventures and associates. See "—An increase in interest rates would decrease the value of our debt securities portfolio and raise our funding costs while reducing loan demand and the repayment ability of our borrowers, which could adversely affect us."

# Adverse developments affecting the financial services industry, including events or concerns involving liquidity of financial institutions, could adversely affect our business, financial condition or results of operations.

Adverse developments affecting financial institutions, such as events involving liquidity that are rumored or actual, have in the past and may in the future lead to bank failures and market-wide liquidity problems. For example, on March 10, 2023, Silicon Valley Bank, or SVB, was closed by the California Department of Financial Protection and Innovation, which appointed the Federal Deposit Insurance Commission, or the FDIC, as receiver. To protect insured depositors, the FDIC transferred all of the deposits and substantially all of the assets of SVB to Silicon Valley Bridge Bank, N.A., a full-service bridge bank that will be operated by the FDIC as it stabilizes the institution and implements an orderly resolution. On March 12, 2023, the FDIC, which was also appointed by the New York State Department of Financial Services as receiver, transferred all of the deposits and substantially all of the assets of Signature Bank to Signature Bridge Bank, N.A. ("Bridge Bank"), a full-service bank that will be operated by the FDIC as it markets the institution to potential bidders. On March 8, 2023, Silvergate Capital Corporation, the holding company for Silvergate Bank, announced its intent to wind down operations and voluntarily liquidate Silvergate Bank.

Other banks have come under pressure and face uncertainty as a result of the failure of SVB, Signature Bank, and Silvergate Bank, and we cannot assure you whether or not the FDIC and other applicable government authorities will take similar or different actions with respect to other banking institutions. Korean financial institutions, including savings banks, Internet-only banks and the banking system generally in Korea, may experience volatile stock prices and significant losses in their equity value, and depositors may withdraw significant amounts from their accounts at these institutions, both of which could lead to closure or other significant distress. In such event, the Korean government may require us and other large financial holding companies in Korea to intervene, as it has required to do so in the past, which may strain our resources and have an adverse impact on our results of operations, cash flow, and financial condition.

In addition, we may be impacted by current or future negative perceptions and expectations about the prospects for the financial services industry, which could worsen over time and result in downward pressure on, and continued or accelerated volatility of, bank securities. Such events involving limited liquidity, defaults, non-performance or other adverse developments that affect financial institutions, transactional counterparties or other companies in the financial services industry or the financial services industry generally, or concerns or rumors about any events of these kinds or other similar risks, have in the past and may in the future lead to market-wide liquidity issues or increase our risk in various dealings with our counterparties, among others.

### Our risk management system may not be fully effective at all times, including operational risk.

We seek to monitor and manage our risk exposure through a standardized risk management system, which encompasses a multi-tiered risk management governance structure under our Board Risk Management Committee, our centralized credit risk management system called the Credit Wizard system, reporting and monitoring systems, early warning systems and other risk management infrastructure, using a variety of risk management strategies and techniques. See "Item 11. Quantitative and Qualitative Disclosures about Market Risk." However, such risk management strategies and techniques employed by us and the judgments that accompany their application cannot anticipate the economic and financial outcome in all market environments, and many of our risk management strategies and techniques have a basis in historical market behavior that may

limit the effectiveness of such strategies and techniques in times of significant market stress or other unforeseen circumstances. Furthermore, our risk management strategies may not be effective in a difficult or less liquid market environment, as other market participants may be attempting to use the same or similar strategies as us to deal with such market conditions. In such circumstances, it may be difficult for us to reduce our risk positions due to the activity of such other market participants.

We also seek to identify and manage our exposure to operational risk, which we define as the risk of loss resulting from inadequate or failed internal processes, people and systems or from external events, primarily through its system of comprehensive policies and control framework, including internal audits and inspections. In addition to our internal audits and inspections, the Financial Supervisory Service conducts general annual audits of our operations, as well as special audits and investigations as the need arises on particular aspects of our operations, such as risk management, internal control, credit monitoring and liquidity. In the ordinary course of these audits or investigations, the Financial Supervisory Service routinely issues warning notices where it determines that a regulated financial institution or such institution's employees have failed to comply with the applicable laws or rules, regulations and guidelines of the Financial Supervisory Service. We have in the past received, and expect in the future to receive, such notices, and we have taken and will continue to take appropriate actions in response to such notices. For example, the Financial Supervisory Service launched an investigation into us in April 2022 after we discovered that one of our employees had embezzled an aggregate amount of approximately \(\forall 70.8\) billion between 2012 and 2020. The Financial Supervisory Service released an interim report in July 2022, stating that it would take all necessary actions against the embezzler, as well as our other employees and executives for any illegal or inappropriate acts, in accordance with the relevant laws and regulatory procedures. The Financial Supervisory Service also stated that it would work with the Financial Services Commission to devise a plan for improving the internal controls of banks and other financial institutions to prevent the future occurrence of any such large-scale financial incidents. For a further discussion of the incident, see "-We may suffer losses due to employee misconduct." and "Item 8.A. Consolidated Statements and Other Financial Information—Legal Proceedings and Regulatory Actions." While we intend to fully cooperate with the Financial Supervisory Service in its audits and investigations and take any remedial measures as necessary, no assurance can be given that these remedial measures would be sufficient to prevent similar or more adverse operational risks from materializing.

### We have provided certain assets as collateral in connection with our secured borrowings and could be required to make payments and realize losses in the future relating to those assets.

We have provided certain assets as collateral for our secured borrowings in recent years. As of December 31, 2022, the aggregate amount of assets we had provided as collateral for our secured borrowings was \text{\text{W21,748}} billion. These secured borrowings may take the form of asset securitization transactions, where we nominally sell our assets to a securitization vehicle that issues securities backed by those assets, although the assets remain on our statements of financial position. These secured borrowings are intended to be fully repaid through recoveries on collateral. Some of these nominal asset sales were with recourse, which means that if delinquencies arise with respect to such assets, we will be required to either repay a proportionate amount of the related secured borrowing (by reversing the nominal sale and repurchasing such assets) or compensate the securitization vehicle for any net shortfalls in its recoveries on such assets. If we are required to make payments on such assets, or to repay our secured borrowings on those assets and are unable to make sufficient recoveries on them, we may realize further losses on these assets.

An increase in interest rates would decrease the value of our debt securities portfolio and raise our funding costs while reducing loan demand and the repayment ability of our borrowers, which could adversely affect us.

Interest rates in Korea have been subject to significant fluctuations in the past. The Bank of Korea increased its policy rate from 1.25% to 1.50% in November 2017 and 1.75% in November 2018 in light of improved growth prospects in Korea and rising interest rate levels globally, but it again reduced its policy rate to 1.50% in June 2019 and 1.25% in October 2019 to address the sluggishness of the global and domestic economies. Amid rising concerns of a potential global recession as a result of the COVID-19 pandemic, the Bank of Korea further reduced its policy rate to 0.75% in March 2020 and 0.50% in May 2020. However, as the economy began to

show signs of recovery from the COVID-19 pandemic starting from the second half of 2021, the Bank of Korea gradually raised its policy rate to 0.75% in August 2021, 1.00% in November 2021, and to pre-pandemic level of 1.25% in January 2022. More recently, in response to rising levels of household debt and inflation in Korea as well as globally, the Bank of Korea raised its policy rate to 1.50% in April 2022, 1.75% in May 2022, 2.25% in July 2022, 2.50% in August 2022, 3.00% in October 2022, 3.25% in November 2022 and 3.50% in January 2023. All else being equal, increases in interest rates in the future could lead to a decline in the value of our portfolio of debt securities, which generally pay interest based on a fixed rate. A sustained increase in interest rates will also raise our funding costs, while reducing loan demand, especially among consumers. Rising interest rates may therefore require us to re-balance our asset portfolio and our liabilities in order to minimize the risk of potential mismatches and maintain our profitability. See "Item 11. Quantitative and Qualitative Disclosures about Market Risk." In addition, rising interest rate levels may adversely affect the Korean economy and the financial condition of our corporate and consumer borrowers, including holders of our credit cards, which in turn may lead to a deterioration in our credit portfolio. In particular, since most of our consumer and corporate loans bear interest at rates that adjust periodically based on prevailing market rates, a sustained increase in interest rates would increase the interest costs of our consumer and corporate borrowers and will adversely affect their ability to make payments on their outstanding loans.

# Uncertainties regarding the transition away from the London Interbank Offered Rate, or LIBOR, or any other interest rate benchmark could have adverse consequences for market participants, including us.

The ICE Benchmark Administration, the administrator of the London Interbank Offered Rate, or LIBOR, ceased publication of short-term U.S. dollar LIBOR settings and all non-U.S. dollar LIBOR settings on a representative basis after December 31, 2021, with plans to cease publication of all other U.S. dollar LIBOR settings after June 30, 2023.

Given the extensive use of LIBOR across financial markets, the transition away from LIBOR presents various risks and challenges to financial markets and institutions, including us, and in particular, Woori Bank. We had issued, traded, held or otherwise used various products and securities that referenced LIBOR, including, among others, loans, securities, deposits, borrowings, derivatives and debentures. In response, we established a LIBOR response plan to identify the impacts and risks to its business associated with the transition away from LIBOR, and to prepare and implement an action plan to ensure a smooth transition to alternative benchmark rates, and to date, has substantively completed such transition, with a strategy in place for the remainder of such transactions that involve LIBOR settings that expire in 2023.

The ongoing transition away from LIBOR or any other interest rate benchmark could result in increased financial, operational, legal, reputational and/or compliance risks. For example, a significant challenge in our benchmark transition has been managing the impact of the LIBOR transition on the contractual mechanics of LIBOR-based financial instruments and contracts that mature after the announced deadlines. As described above, certain of the remaining instruments and contracts do not provide for alternative reference rates or appropriate fallback clauses. Even if such instruments and contracts provide for alternative reference rates, such alternative reference rates are likely to differ from the prior benchmark rates and may require us to pay interest at higher rates on the related obligations, which could adversely impact our interest expenses, results of operations and cash flows. While there are a number of international working groups focused on transition plans and the provision of fallback contract language that seek to minimize market disruption, replacement of LIBOR or any other benchmark with a new benchmark rate, such as the Secured Overnight Financing Rate, or SOFR, could adversely impact the value of and return on existing instruments and contracts. Moreover, replacement of LIBOR or other benchmark rates could result in market dislocations and have other adverse consequences for market participants, including the potential for increased costs, and litigation risks, including the potential for disputes with counterparties regarding the interpretation and enforceability of fallback contract language in LIBOR-based financial instruments and contracts.

### Our funding is highly dependent on short-term deposits, which dependence may adversely affect our operations.

We meet a significant amount of our funding requirements through short-term funding sources, which consist primarily of customer deposits. As of December 31, 2022, approximately 95.3% of these deposits had

maturities of one year or less or were payable on demand. In the past, a substantial proportion of these customer deposits have been rolled over upon maturity. We cannot guarantee, however, that depositors will continue to roll over their deposits in the future. In the event that a substantial number of these short-term deposit customers withdraw their funds or fail to roll over their deposits as higher-yielding investment opportunities emerge, our liquidity position could be adversely affected. We may also be required to seek more expensive sources of short-term and long-term funding to finance our operations. See "Item 5.B. Liquidity and Capital Resources—Financial Condition—Liquidity."

### Labor union unrest may disrupt our operations and hinder our ability to continue to reorganize our operations.

Most financial institutions in Korea have experienced periods of labor unrest. In recent years, we have transferred or merged some of the business operations of our subsidiaries and affiliates into one or more entities and implemented other forms of corporate and operational restructuring, including in connection with the Korean government's privatization plan with respect to Woori Finance Holdings and its former subsidiaries. See "—Risks relating to our structure and strategy—The implementation of the Korean government's privatization plan may have an adverse effect on us and your interests as a shareholder." We may also decide to implement other organizational or operational changes, as well as acquisitions or dispositions, in the future. Such efforts have in the past been met with significant opposition from labor unions in Korea. Actual or threatened labor disputes may in the future disrupt the reorganization process and our business operations, which in turn may adversely impact our financial condition and results of operations.

# The secondary market for corporate bonds in Korea is not fully developed, and, as a result, we may not be able to realize the full "marked-to-market" value of debt securities we hold when we sell any of those securities.

As of December 31, 2022, we held debt securities issued by Korean companies and financial institutions (other than those issued by government-owned or -controlled enterprises or financial institutions, which include the Bank of Korea, the Korea Development Bank, the Export-Import Bank of Korea, the Korea Housing Finance Corporation and the Industrial Bank of Korea, among others) with a total book value of \(\forall 9,631\) billion in our trading and investment securities portfolio. The market value of these securities could decline significantly due to various factors, including future increases in interest rates or a deterioration in the financial and economic condition of any particular issuer or of Korea in general. Any of these factors individually or a combination of these factors would require us to write down the fair value of these debt securities, resulting in impairment losses. Because the secondary market for corporate bonds in Korea is not fully developed, the market value of many of these securities as reflected on our consolidated statements of financial position is determined by reference to suggested prices posted by Korean rating agencies, which measure prices based on observable market data. These valuations, however, may differ significantly from the actual value that we could realize in the event we elect to sell these securities. As a result, we may not be able to realize the full "marked-to-market" value at the time of any such sale of these securities and thus may incur additional losses.

# We may be required to raise additional capital if our capital adequacy ratios deteriorate or the applicable capital requirements change in the future, but we may not be able to do so on favorable terms or at all.

Under the capital adequacy requirements of the Financial Services Commission, as of December 31, 2022, we as a bank holding company were required to maintain a total minimum common equity Tier I capital adequacy ratio of 8.0%, Tier I capital adequacy ratio of 9.5% and combined Tier I and Tier II capital adequacy ratio of 11.5%, on a consolidated basis (including applicable additional capital buffers and requirements as described below), and Woori Bank as a bank was required to maintain a total minimum common equity Tier I capital adequacy ratio of 8.0%, Tier I capital adequacy ratio of 9.5% and combined Tier I and Tier II capital adequacy ratio of 11.5%, on a consolidated basis (including applicable additional capital buffers and requirements as described below). As of December 31, 2022, our common equity Tier I capital, Tier I capital and combined Tier I and Tier II capital adequacy ratios were 11.57%, 13.62% and 15.30%, respectively, and Woori Bank's common equity Tier I capital, Tier I capital and combined Tier I and Tier II capital adequacy ratios were 12.68%, 13.67% and 15.60%, respectively, all of which exceeded the minimum levels required by the Financial

Services Commission. However, our capital base and capital adequacy ratios may deteriorate in the future if our results of operations or financial condition deteriorates for any reason, or if we are not able to deploy our funding into suitably low-risk assets.

The current capital adequacy requirements of the Financial Services Commission are derived from a set of bank capital measures, referred to as Basel III, which the Basel Committee on Banking Supervision initially introduced in 2009 and began phasing in starting from 2013. Commencing in July 2013, the Financial Services Commission promulgated a series of amended regulations implementing Basel III, pursuant to which Korean banks and bank holding companies were required to maintain a minimum ratio of common equity Tier I capital (which principally includes equity capital, capital surplus and retained earnings) to risk-weighted assets of 3.5% and Tier I capital to risk-weighted assets of 4.5% from December 1, 2013, which minimum ratios were increased to 4.0% and 5.5%, respectively, from January 1, 2014 and increased further to 4.5% and 6.0%, respectively, from January 1, 2015. Such requirements are in addition to the pre-existing requirement for a minimum ratio of Tier I and Tier II capital (less any capital deductions) to risk-weighted assets of 8.0%, which remains unchanged. The amended regulations also require an additional capital conservation buffer of 2.5% in 2022 and 2023, as well as a potential counter-cyclical capital buffer of up to 2.5%, which is determined on a quarterly basis by the Financial Services Commission. Furthermore, we and Woori Bank were each designated as a domestic systemically important bank holding company and a domestic systematically important bank, respectively, for 2022 and 2023 by the Financial Services Commission, which subjects us and Woori Bank to the additional capital requirement of 1.0% in 2022 and 2023. The implementation of Basel III in Korea may have a significant effect on the capital requirements of Korean financial institutions, including us. See "Item 4.B. Business Overview—Supervision and Regulation—Principal Regulations Applicable to Financial Holding Companies—Capital Adequacy" and "Item 4.B. Business Overview—Supervision and Regulation—Principal Regulations Applicable to Banks— Capital Adequacy."

We may be required to obtain additional capital in the future in order to remain in compliance with the applicable capital adequacy and other regulatory requirements. However, we may not be able to obtain additional capital on favorable terms, or at all. Our ability to obtain additional capital at any time may be constrained to the extent that banks, bank holding companies or other financial institutions in Korea or from other countries are seeking to raise capital at the same time. To the extent that we fail to comply with applicable capital adequacy or other regulatory requirements in the future, Korean regulatory authorities may impose penalties on us ranging from a warning to suspension or revocation of our banking license.

We engage in limited activities relating to Iran and Russia, which may result in regulatory or enforcement actions under relevant laws and regulations of the United States and other jurisdictions as a result of such activities, which may adversely affect our business and reputation.

The U.S. Department of the Treasury's Office of Foreign Assets Control, or OFAC, administers and enforces certain laws and regulations (which we refer to as OFAC sanctions) that impose restrictions on activities or transactions within U.S. jurisdiction with certain countries, governments, entities and individuals that are the subject of OFAC sanctions, including Iran and Russia. Non-U.S. persons generally are not automatically bound by OFAC sanctions, but to the extent they engage in transactions completed in part in the United States or through U.S. persons (such as, for example, wiring an international payment that clears through a bank branch in New York), they are required to comply with OFAC sanctions. The European Union also enforces certain laws and regulations that impose restrictions on nationals and entities of, and business conducted in, member states with respect to activities or transactions with certain countries, governments, entities and individuals that are the subject of such laws and regulations, including with respect to targeted entities in Iran and Russia. The United Nations Security Council and other governmental entities (including Korea and the United Kingdom) also impose similar sanctions.

The United States also maintains indirect sanctions, which we refer to collectively as U.S. secondary sanctions, which provide authority for the imposition of U.S. sanctions on non-U.S. persons that engage in targeted transactions or activities with no connection to U.S. jurisdiction. Secondary sanctions are implemented under a wide and growing range of statutes and Executive Orders, and the standard language of most Executive Orders provides authority to impose sanctions on non-U.S. persons providing material support to parties subject

to OFAC sanctions. Secondary sanctions have been of increasing importance in recent years, particularly (but not only) with respect to Iran, Russia, and North Korea. Iran has also been designated as a "jurisdiction of primary money laundering concern" under Section 311 of the USA PATRIOT Act, potentially subjecting banks dealing with Iranian financial institutions to increased regulatory scrutiny.

Violations of OFAC sanctions via transactions with a U.S. jurisdictional nexus can result in substantial civil or criminal penalties. Even when no such jurisdictional nexus exists, parties that engage in targeted activities under secondary sanctions may themselves become the target of OFAC sanctions, including, among other things, the blocking of any property subject to U.S. jurisdiction in which the sanctioned party has an interest, which would include a prohibition on transactions or dealings within U.S. jurisdiction involving securities of the sanctioned party. Financial institutions engaging in targeted activities could in some instances be sanctioned by termination or restriction of their ability to maintain correspondent accounts in the United States. The imposition of sanctions against foreign financial institutions pursuant to U.S. secondary sanctions is discretionary and not automatic, requiring affirmative action by the U.S. administration.

Previously, Korea benefited from a "significant reduction" exception, or SRE, that exempted Korean companies from many U.S. secondary sanctions in connection with purchases of crude oil and natural gas from Iran that met a series of conditions, including restrictions on the currencies involved and stringent limits on the use of proceeds of oil and gas purchases. The U.S. Department of State announced that as of May 2, 2019, it would discontinue the exemption.

In 2022, we engaged in the following activities relating to Iran:

- We operate certain accounts for the Central Bank of Iran, or the CBI, which were opened by the CBI pursuant to a service agreement entered into by us and the CBI in September 2010, as amended from time to time, to facilitate trade between Korea and Iran. In light of the discontinuation of the SRE, from July 8, 2019 to September 20, 2019, we limited activity in the existing CBI accounts to processing payments for exports of humanitarian goods to Iran, and due to the imposition of additional secondary sanctions against the CBI on September 20, 2019, we ceased all activity in the existing CBI accounts until July 12, 2020. Starting July 13, 2020, at the request of the Korean government, we resumed processing payments for exports of certain humanitarian goods to Iran, such as those permitted under OFAC General License No. 8A, which authorizes certain humanitarian trades involving the CBI. In resuming the transactions involving the CBI account for humanitarian trade, we consulted with the Korean government, which, in turn, received confirmation from OFAC that these transactions are currently permitted under OFAC sanctions laws. In addition, we have been conducting extensive Know Your Customer (KYC) and enhanced due diligence (EDD) reviews to ensure that all humanitarian trade transactions involving Iran and the CBI are undertaken in accordance with OFAC sanctions. In 2022, our total fee revenue from such activities amounted to \(\foldam{0}\).22 million, and as there were no expenses directly applicable to such activities under our internal management accounts, we estimate that our net income before tax from such activities also amounted to \wodestyle 0.22 million.
- In the past, we also provided fund transfer and financing services to Korean exporters and importers in connection with their trade transactions with Iranian parties that were permitted under the relevant Korean sanctions regime. We have discontinued all trade financing activities relating to export and import trades involving the CBI accounts since November 5, 2018. Since 2019, all such exports and imports were settled through telegraphic transfer and did not involve our financing services, including all transactions involving the CBI. However, we continue to honor our obligations on a limited basis under previously-issued bank guarantees to the extent that such activities do not violate OFAC sanctions or implicate U.S. secondary sanctions. In 2022, our total fee revenue from the relevant telegraphic transfer services amounted to \(\forall 0.10\) million. As there were no expenses directly applicable to such activities under our internal management accounts, we estimate that our net income before tax from such activities also amounted to \(\forall 0.10\) million.
- We also maintain a limited number of deposit accounts in Korea for an Iranian financial institution
  subject to OFAC sanctions that were opened prior to it becoming subject to OFAC sanctions. The
  relevant accounts have since been restricted, and no transactions are currently allowed through these
  accounts. Accordingly, there were no fee revenues from maintaining such deposit accounts, and there
  were no expenses directly applicable to such activities under our internal management accounts, in 2022.

Unless stated otherwise, we intend to continue the above activities to the extent permitted under applicable laws and regulations and not prohibited by any applicable sanctions laws.

While we do not believe that our past activities relating to Iran violated OFAC sanctions or are sanctionable under applicable U.S. secondary sanctions, U.S. authorities are afforded wide discretion and there is no guarantee that such activities will not be found to have violated OFAC sanctions or involved sanctionable activity under U.S. secondary sanctions, or that any other government will not determine that our activities violated applicable sanctions of other countries. Sanctions against Iran continue to evolve rapidly, and future changes in law could also adversely affect us.

Our business and reputation could be adversely affected if the U.S. government were to determine that our past or ongoing activities relating to Iran violated OFAC sanctions or involved sanctionable activities under U.S. secondary sanctions, or if any other government were to determine that such activities violated applicable sanctions of other countries. For example, any prohibition or conditions placed on our use of U.S. correspondent accounts could effectively eliminate our access to the U.S. financial system, including U.S. dollar clearing transactions, which would adversely affect our business, and any other sanctions or civil or criminal penalties imposed could also adversely affect our business. We intend to take all necessary measures to the extent possible to ensure that such prohibitions or conditions are not placed on us.

Furthermore, there is no guarantee that other countries (including Korea) that had provided sanctions relief to Iran in conjunction with the 2015 Joint Comprehensive Plan of Action (JCPOA) will not decide to re-impose sanctions relating to Iran, especially if there are further negative political developments relating to the Middle East or Iran's involvement in the conflict in Ukraine. It is also possible that the United States, Korea or other countries might seek to expand their sanctions relating to Iran in the future beyond those existing currently. Such governmental actions and policies may also increase the risk of our violating certain sanctions or becoming a target of sanctions as a result of our past or future activities relating to Iran.

We have been cooperating with an investigation relating to compliance with U.S. sanctions and other U.S. laws led by the U.S. Attorney's Office for the Southern District of New York and the New York State Office of the Attorney General regarding certain of our transactions involving sanctioned countries. We have provided the investigating authorities with information and documents pursuant to the applicable laws and regulations. We voluntarily reported the relevant transactions to OFAC, including a limited number of previous transactions that may have involved Iran, Sudan, Syria and Cuba, and shared such information with banking regulators including the Federal Reserve Bank of New York and the New York Department of Financial Services, or DFS. On December 3, 2020, OFAC concluded its investigation with a cautionary letter as its final enforcement action, and DFS also informed our counsel on February 2, 2022 that it would close its investigation without any enforcement action. However, the investigations by other U.S. government authorities have not been formally concluded and may continue to require our cooperation, although such investigations have been dormant for a number of years to our knowledge. It is not possible to predict the outcome of such investigations at this time, and there can be no assurance that such investigations will not result in an unfavorable outcome or adversely affect our business or reputation.

Following Russia's further invasion of Ukraine in February 2022, various countries, including the United States, have imposed additional sanctions on a number of Russian individuals and entities, and restricted or prohibited certain activities relating to Russia such as making new investments or the provision of certain services. The Russian government also listed the Republic of Korea as an "unfriendly state" in March 2022. We have a Russia-based subsidiary, which represents 0.16% of our total assets and 0.19% of our revenue as of December 31, 2022. The Russian subsidiary is engaged in certain ordinary course business activities with Russian entity counterparties, some of which have become subject to additional sanctions since February 2022. Where necessary or appropriate, we have taken actions to negotiate repayment terms in Rubles to promote compliance with applicable sanctions and have prepared response plans in the event of additional sanctions. While we do not believe that such activities violate OFAC or other sanctions or would reasonably be expected to result in the imposition of U.S. secondary sanctions, U.S. authorities are afforded wide discretion and there is no guarantee that such activities will not be found to have violated OFAC sanctions or involved sanctionable activity under U.S. secondary sanctions, or that any other government will not determine that our activities

violated applicable sanctions of other countries. Our business and reputation could be adversely affected if the U.S. government, or any other government, were to determine that our past or ongoing activities relating to Russia violated any of the applicable sanctions. Sanctions against Russia continue to evolve rapidly, and future changes in law could also adversely affect us. The further expansion of sanctions against Russia and the Russian financial sector by the United States or other countries (including Korea), as well as Russian countermeasures against foreign-owned companies, may adversely affect our business and reputation.

Furthermore, some of our U.S. investors may be required to divest their investments in us or forego the purchase of our securities under the laws of certain U.S. states relating to investments by state-owned entities or under internal investment policies relating to companies (or their affiliates) doing business with Iran or Russia, or investors may decide for reputational reasons to divest or forego such investments. We are aware of initiatives by U.S. governmental entities and U.S. institutional investors, such as pension funds, to adopt or consider adopting laws, regulations or policies prohibiting transactions with or investment in, or requiring divestment from, entities doing business with countries identified as state sponsors of terrorism, such as Iran, or with Russia. There can be no assurance that the foregoing will not occur or that such occurrence will not have a material adverse effect on the value of our common stock and ADSs.

### Our operations may be subject to increasing and continually evolving cybersecurity and other technological risks.

With the proliferation of new technologies and the increasing use of the Internet and mobile devices to conduct financial transactions, our operations as a financial institution have been, and will continue to be, subject to an increasing risk of cyber incidents relating to these activities, the nature of which is continually evolving. Our computer systems, software and networks are subject to cyber incidents, such as disruptions, delays or other difficulties affecting our information technology systems, computer viruses or other malicious codes, loss or destruction of data (including confidential client information), unauthorized access, account takeover attempts and cyber attacks. A significant portion of our daily operations relies on our information technology systems, including customer service, billing, the secure processing, storage and transmission of confidential and other information as well as the timely monitoring of a large number of complex transactions.

South Korea's Defense Ministry increased the Cyber Protection Condition or CPCON level from Level 4 (attention) to 3 (caution) in March 2022. In response, we have taken actions to implement cybersecurity measures that are commensurate with this increase in CPCON level. Specifically, we strengthened our systems to detect and block hacking attempts and malicious code distribution as well as DDoS response. We are also working on identifying and confirming best practices to optimize our cybersecurity measures.

We have made substantial and ongoing investments into building systems and protections to address cybersecurity and related risks including obtaining ISMS-P from Financial Security Institute and ISO27001 and ISO27701 from the International Organization for Standardization to validate our protocols, personnel, and facilities in respect of personal information data protection. Although our commitment to optimized cybersecurity and ongoing compliance will continue, there is no guarantee that such measures will provide complete protection against cyber threats.

In addition, because methods used to cause cyber attacks change frequently or, in some cases, are not recognized until launched, we may be unable to implement effective preventive measures or proactively address these methods. Furthermore, these cyber threats may arise from human error, accidental technological failure and third parties with whom we do business. If we were to be subject to a system failure or other cyber incident, it could result in the disclosure of confidential client information, damage to our reputation with our customers and in the market, customer dissatisfaction, additional costs to us, regulatory penalties, exposure to litigation and other financial losses to both us and our customers, which could have an adverse effect on our business and results of operations.

### Our business may be adversely affected by legal claims and regulatory actions against us.

We are subject to the risk of legal claims and regulatory actions, which may expose us to monetary damages and legal costs, injunctive relief, criminal and civil penalties, sanctions against our management and employees

and regulatory restrictions on our operations, as well as reputational harm. See "Item 8.A. Consolidated Statements and Other Financial Information—Legal Proceedings and Regulatory Actions."

We are unable to predict the outcome of many of the legal claims and regulatory actions in which we are involved, and the scope of the claims or actions or the total amount in dispute in such matters may increase. Furthermore, adverse decisions, findings or resolutions in such matters could encourage other parties, including governmental authorities in other jurisdictions, to bring similar claims and actions against us. Accordingly, the outcome of current and future legal claims and regulatory actions, particularly those for which it is difficult to assess the maximum potential exposure or the ultimate adverse impact with any degree of certainty, may materially and adversely impact our business, reputation, results of operations and financial condition.

#### We may suffer losses due to employee misconduct.

Our businesses are exposed to risk from potential non-compliance by our employees with our policies, applicable laws or regulations, as well as other types of employee misconduct or negligence and fraud, which could result in civil, regulatory or criminal investigations, litigations and charges, regulatory sanctions and reputational or financial harm. For example, in April 2022, we became aware of, and reported to the relevant government authorities, a series of embezzlements committed between 2012 and 2020 by one of our employees. As of December 31, 2022, we determined that the aggregate amount of such embezzlements was approximately ₩70.8 billion but have since recovered ₩3.4 billion of this amount. In September 2022, the Seoul Central District court sentenced the embezzler to 13 years in prison, which decision is currently on appeal. The Financial Supervisory Service has concluded its investigation and, in January 2023, its disciplinary committee approved various penalties to be issued to certain Woori Bank employees in connection with the embezzlement. In addition, another employee of ours has been arrested under the allegation of aiding certain suspicious overseas wire transfers that are subject to pending investigations by the Korean government and alerting the transferors of such investigations. See "Item 8.A. Consolidated Statements and Other Financial Information—Legal Proceedings and Regulatory Actions." These and other instances of employee misconduct could result in damages to our reputation, additional costs to us, regulatory penalties, exposure to litigation and other financial losses to us. There can be no assurance that we will be able to fully recoup any financial losses that we may have sustained as a result of the employee misconduct. Furthermore, it is not always possible to deter or fully prevent employee misconduct and the precautions we take to prevent and detect such activity may not always be fully effective. Accordingly, there can be no assurance that employee misconduct will not occur again in the future.

### We are generally subject to Korean corporate governance and disclosure standards, which differ in significant respects from those in other countries.

Companies in Korea, including us, are subject to corporate governance standards applicable to Korean public companies which differ in many respects from standards applicable in other countries, including the United States. As a reporting company registered with the U.S. Securities and Exchange Commission and listed on the New York Stock Exchange, we are subject to certain corporate governance standards as mandated by the Sarbanes-Oxley Act of 2002. However, foreign private issuers, including us, are exempt from certain corporate governance requirements under the Sarbanes-Oxley Act or under the rules of the New York Stock Exchange. There may also be less publicly available information about Korean companies, such as us, than is regularly made available by public or non-public companies in other countries. Such differences in corporate governance standards and less public information could result in less than satisfactory corporate governance practices or disclosure to investors in certain countries.

#### Risks relating to government regulation and policy

# Strengthening of consumer protection laws applicable to financial institutions could adversely affect our operations.

As a financial services provider, we are subject to a variety of regulations in Korea that are designed to protect financial consumers. In recent years, in light of heightened public concern regarding privacy issues, the Korean government has placed greater emphasis on protection of personal information by financial institutions

and has implemented a number of measures to enhance consumer protection. Under the Personal Information Protection Act, financial institutions, as personal information managers, may not collect, store, maintain, utilize or provide resident registration numbers of their customers, unless other laws or regulations specifically require or permit the management of resident registration numbers. In addition, under the Use and Protection of Credit Information Act, a financial institution has a higher duty to protect all information that it collects from its customers and is required to treat such information as credit information. A financial institution's ability to transfer or provide the information to its affiliates or holding company is considerably restricted. Quintuple damages may be imposed on a financial institution for leakage of such information. Furthermore, under the Electronic Financial Transaction Act, a financial institution is primarily responsible for compensating its customers harmed by a cyber security breach affecting the financial institution even if the breach is not directly attributable to the financial institution.

The Financial Consumer Protection Act became effective as of March 25, 2021. Under the Act, we as a financial instrument distributor are subject to heightened investor protection measures, including stricter distribution guidelines, improved financial dispute resolution procedures, increased liability for customer losses and newly imposed penalty surcharges. See "Item 4.B. Business Overview—Supervision and Regulation—Laws and Regulations Governing Other Business Activities—The Financial Consumer Protection Act."

These and other measures that may be implemented by the Korean government to strengthen consumer protection laws applicable to financial institutions may limit our operational flexibility and cause us to incur significant additional compliance costs, as well as subject us to increased potential liability to our customers, which could adversely affect our business and performance.

The Korean government may promote lending and financial support by the Korean financial industry to certain types of borrowers as a matter of policy, which financial institutions, including us, may decide to follow.

Through its policy guidelines and recommendations, the Korean government has promoted and, as a matter of policy, may continue to attempt to promote lending by the Korean financial industry to particular types of borrowers. For example, the Korean government has in the past announced policy guidelines requesting financial institutions to participate in remedial programs for troubled corporate borrowers, as well as policies aimed at promoting certain sectors of the economy, including measures such as making low interest funding available to financial institutions that lend to these sectors. We expect that all loans or credits made pursuant to such government policies will be reviewed in accordance with our credit approval procedures. However, these or any future government policies may influence us to lend to certain sectors or in a manner in which we otherwise would not in the absence of such policies.

In the past, the Korean government has also announced policies under which financial institutions in Korea are encouraged to provide financial support to particular sectors. For example, in light of the deteriorating financial condition and liquidity position of small- and medium-sized enterprises in Korea and adverse conditions in the Korean economy affecting such enterprises, in April 2020 the Korean government temporarily introduced measures intended to encourage Korean banks to provide financial support to small- and medium-sized enterprise borrowers, including guidelines for Korean banks to extend loan terms and defer interest payments with respect to small- and medium sized enterprises and small merchants affected by the COVID-19 pandemic. See "—Risks relating to our corporate credit portfolio—The largest portion of our exposure is to small- and medium-sized enterprises, and financial difficulties experienced by companies in this segment may result in a deterioration of our asset quality and have an adverse impact on us." In addition, in September 2019, in response to increasing levels of consumer debt and amid concerns over the debt-servicing capacity of retail borrowers if interest rates were to rise, the Korean government requested Korean banks to participate in a mortgage loan refinancing program for low-income individuals with low repayment ability aimed at reducing the payment burden on outstanding mortgage loans.

The Korean government may in the future request financial institutions in Korea, including us, to make investments in or provide other forms of financial support to particular sectors of the Korean economy as a matter of policy, which financial institutions, including us, may decide to accept. We may incur costs or losses as a result of providing such financial support.

### The Financial Services Commission may impose burdensome measures on us if it deems us or one of our subsidiaries to be financially unsound.

If the Financial Services Commission deems our financial condition or the financial condition of our subsidiaries to be unsound, or if we or our subsidiaries fail to meet applicable regulatory standards, such as minimum capital adequacy and liquidity ratios, the Financial Services Commission may order or recommend, among other things:

- admonitions or warnings with respect to us or our officers;
- capital increases or reductions;
- assignments of contractual rights and obligations relating to financial transactions;
- a suspension of performance by our officers of their duties and the appointment of receivers;
- disposals of property holdings or closures of subsidiaries or branch offices or downsizing;
- stock cancellations or consolidations:
- suspension of performance of duties of officers and appointment of managers;
- transfer of all or part of a business;
- · mergers with other financial institutions;
- acquisition of us by a third party; and
- suspensions of a part or all of our business operations (not more than six months, in the case of a suspension of all business operations).

If any of these measures are imposed on us by the Financial Services Commission, they could harm our business, results of operations and financial condition. In addition, if the Financial Services Commission orders us to partially or completely reduce our capital, you may lose part or all of your investment.

### Risks relating to Korea

### Unfavorable financial and economic developments in Korea may have an adverse effect on us.

We are incorporated in Korea, and a substantial majority of our operations are located in Korea. As a result, we are subject to political, economic, legal and regulatory risks specific to Korea, and our performance and successful fulfillment of our operational strategies are dependent to a large extent on the overall Korean economy. The economic indicators in Korea in recent years have shown mixed signs of deterioration and recovery. Following a period of deterioration due to the debilitating effects of the COVID-19 pandemic on the Korean economy as well as on the economies of Korea's major trading partners in 2020 (see "—Other risks relating to our business—The COVID-19 pandemic has adversely affected and may continue to adversely affect our business, financial condition or results of operations."), the overall Korean economy showed some signs of recovery in 2021. However, the Korean economy in 2022 was characterized by high levels of uncertainty resulting from high inflation rates, a rise in interest rates and a depreciation of the Won against the U.S. dollar. As a result, future growth of the Korean economy is subject to many factors beyond our control, including developments in the global economy.

In recent years, adverse conditions and volatility in the worldwide financial markets, fluctuations in oil and commodity prices and the increasing weakness of the global economy, mainly due to the COVID-19 pandemic and more recently due to Russia's invasion of Ukraine and ensuing sanctions against Russia, have contributed to the uncertainty of global economic prospects in general and have adversely affected, and may continue to adversely affect, the Korean economy. See "—Other risks relating to our business—Unfavorable changes in the global financial markets could adversely affect our results of operations and financial condition." The value of the Won relative to major foreign currencies has fluctuated significantly and, as a result of deteriorating global and Korean economic conditions, there has been significant volatility in the stock prices of Korean companies

recently. Further declines in the Korea Composite Stock Price Index, or the KOSPI, and large amounts of sales of Korean securities by foreign investors and subsequent repatriation of the proceeds of such sales may adversely affect the value of the Won, the foreign currency reserves held by financial institutions in Korea, and the ability of Korean companies to raise capital. Any future deterioration of the Korean or global economy could adversely affect our business, financial condition and results of operations.

Developments that could have an adverse impact on the Korean economy include:

- declines in consumer confidence and a slowdown in consumer spending;
- the occurrence of severe health epidemics in Korea or other parts of the world, such as the COVID-19 pandemic;
- adverse developments in the financial markets and industry;
- adverse conditions or developments in the economies of countries and regions that are important export
  markets for Korea, such as China, the United States, Europe and Japan, or in emerging market
  economies in Asia or elsewhere, including as a result of deteriorating economic and trade relations
  between the United States and China;
- adverse changes or volatility in foreign currency reserve levels, commodity prices (including oil prices), exchange rates (including fluctuation of the U.S. dollar, the euro or the Japanese yen exchange rates or revaluation of the Chinese Renminbi), interest rates, inflation rates or stock markets;
- deterioration in economic or diplomatic relations between Korea and its trading partners or allies, including deterioration resulting from territorial or trade disputes or disagreements in foreign policy;
- hostilities, political or social tensions involving Russia (including the invasion of Ukraine by Russia and
  ensuing actions that the United States and other countries have taken or may take in the future) and the
  resulting adverse effects on the global supply of oil and other natural resources and the global financial
  markets;
- increased sovereign default risk in select countries and the resulting adverse effects on the global financial markets;
- a deterioration in the financial condition or performance of small- and medium-sized enterprises and other companies in Korea due to the Korean government's policies to increase minimum wages and limit working hours of employees;
- investigations of *chaebols* and their senior management for possible misconduct;
- a continuing rise in the level of household debt and increasing delinquencies and credit defaults by consumer and small- and medium-sized enterprise borrowers in Korea;
- social and labor unrest;
- substantial changes in the market prices of Korean real estate;
- the economic impact of any pending or future free trade agreements or of any changes to existing free trade agreements;
- a substantial decrease in tax revenues and a substantial increase in the Korean government's
  expenditures for fiscal stimulus measures, unemployment compensation and other economic and social
  programs, in particular in light of the Korean government's ongoing efforts to provide emergency relief
  payments to households and emergency loans to corporations in need of funding due to COVID-19,
  which, together, would likely lead to an increase in the Korean government's debt and a national budget
  deficit;
- financial problems or lack of progress in the restructuring of *chaebols*, other large troubled companies (including those in the construction, shipbuilding and shipping sectors as well as the hotel, leisure and transportation sectors) and their suppliers;

- loss of investor confidence arising from corporate accounting irregularities or corporate governance issues concerning certain *chaebols*;
- increases in social expenditures to support an aging population in Korea or decreases in economic productivity due to the declining population size in Korea;
- geo-political uncertainty and risk of further attacks by terrorist groups around the world;
- natural or man-made disasters that have a significant adverse economic or other impact on Korea or its major trading partners;
- political uncertainty or increasing strife among or within political parties in Korea;
- hostilities or political or social tensions involving oil-producing countries in the Middle East (including a potential escalation of hostilities between the United States and Iran) and Northern Africa and any material disruption in the global supply of oil or sudden increase in the price of oil;
- increased reliance on exports to service foreign currency debts, which could cause friction with Korea's trading partners;
- political or social tensions involving Russia and any resulting adverse effects on the supply of oil or the global financial markets;
- an increase in the level of tensions or an outbreak of hostilities between North Korea and Korea or the United States; and
- · changes in financial regulations in Korea.

### Escalations in tensions with North Korea could have an adverse effect on us and the market price of our ADSs.

Relations between Korea and North Korea have been tense throughout Korea's modern history. The level of tension between the two Koreas has fluctuated and may increase abruptly as a result of current and future events. In particular, there have been heightened security concerns in recent years stemming from North Korea's nuclear weapon and ballistic missile programs as well as its hostile military actions against Korea. Some of the significant incidents in recent years include the following:

- North Korea renounced its obligations under the Nuclear Non-Proliferation Treaty in January 2003 and has conducted six rounds of nuclear tests since October 2006, including claimed detonations of hydrogen bombs, and warheads that can be mounted on ballistic missiles. Over the years, North Korea has also conducted a series of ballistic missile tests, including missiles launched from submarines and intercontinental ballistic missiles that it claims can reach the United States mainland. North Korea has increased the frequency of its missile tests in 2022, firing over 60 ballistic missiles, including 8 intercontinental ballistic missiles. In response, the Korean government has repeatedly condemned the provocations and flagrant violations of relevant United Nations Security Council resolutions. In February 2016, the government also closed the inter-Korea Gaeseong Industrial Complex in response to North Korea's fourth nuclear test in January 2016. Internationally, the United Nations Security Council has passed a series of resolutions condemning North Korea's actions and significantly expanding the scope of sanctions applicable to North Korea. Over the years, the United States and the European Union have also expanded their sanctions applicable to North Korea.
- In March 2010, a Korean naval vessel was destroyed by an underwater explosion, killing many of the crewmen on board. The Korean government formally accused North Korea of causing the sinking, while North Korea denied responsibility. Moreover, in November 2010, North Korea fired more than 100 artillery shells that hit Korea's Yeonpyeong Island near the Northern Limit Line, which acts as the de facto maritime boundary between Korea and North Korea on the west coast of the Korean peninsula, causing casualties and significant property damage. The Korean government condemned North Korea for the attack and vowed stern retaliation should there be further provocation.

North Korea's economy also faces severe challenges, which may further aggravate social and political pressures within North Korea. Although bilateral summit meetings between the two Koreas were held in April 2018, May 2018 and September 2018 and between the United States and North Korea in June 2018, February 2019 and June 2019, there can be no assurance that the level of tensions affecting the Korean peninsula will not escalate in the future. Any further increase in tensions, which may occur, for example, if North Korea experiences a leadership crisis, high-level contacts between Korea and North Korea break down or military hostilities occur, could have a material adverse effect on the Korean economy and on our business, financial condition and results of operations and the market value of our common stock and ADSs.

#### Labor unrest in Korea may adversely affect our operations.

Economic difficulties in Korea or increases in corporate reorganizations and bankruptcies could result in layoffs and higher unemployment. Such developments could lead to social unrest and substantially increase government expenditures for unemployment compensation and other costs for social programs. According to statistics from the Korea National Statistical Office, the unemployment rate increased from 3.8% in 2019 to 4.0% in 2020, but decreased to 3.7% in 2021 and further decreased to 2.9% in 2022. Further increases in unemployment and any resulting labor unrest in the future could adversely affect our operations, as well as the operations of many of our customers and their ability to repay their loans, and could adversely affect the financial condition of Korean companies in general, depressing the price of their securities. Any of these developments may have an adverse effect on our financial condition and results of operations.

#### Risks relating to our common stock and ADSs

We or our major shareholders may sell shares of our common stock in the future, and such sales may adversely affect the market price of our common stock and ADSs and may dilute your investment and relative ownership interest in us.

We have no current plans for any public offerings of our common stock, ADSs or securities exchangeable for or convertible into such securities. However, it is possible that we may decide to offer or sell such securities in the future.

IMM Private Equity, Inc., through its special purpose company Nobis1, Inc., currently owns 40,560,000 shares, or 5.57%, of our outstanding common stock. BlackRock Fund Advisors currently owns 36,888,004 shares, or 5.07%, of our outstanding common stock. See "Item 7.A. Major Shareholders." In the future, such major shareholders or any other shareholder that owns a large number of shares of our outstanding common stock may choose to sell large blocks of our common stock in a public offering or privately to a strategic or financial investor. Any future offerings or sales by us of our common stock or ADSs or securities exchangeable for or convertible into such securities, significant sales of our common stock by a major shareholder, or the public perception that such an offering or sale may occur, could have an adverse effect on the market price of our common stock and ADSs. Furthermore, any offerings by us in the future of any such securities could have a dilutive impact on your investment and relative ownership interest in us.

### Prior sales by the KDIC of shares of our common stock may result in adverse Korean tax consequences for you.

Under applicable Korean tax laws, a non-Korean holder who held Woori Bank's common stock or ADSs prior to our establishment as a new financial holding company in January 2019 pursuant to a "comprehensive stock transfer" under Korean law will be able to defer taxation on any capital gains arising from the stock transfer, by virtue of the Special Tax Treatment Control Law of Korea, or the STTCL, until such holder's sale of our common stock or ADSs received in the stock transfer, at which time the tax basis of such common stock or ADSs will be the acquisition price at which such holder acquired such Woori Bank common stock or ADSs. However, non-Korean holders that are corporations may not defer such portion of tax on capital gains arising from the stock transfer that is attributable to the amount by which the market price of our common stock or ADSs (as calculated in accordance with applicable Korean laws and regulations) is in excess of the market price of

Woori Bank's common stock or ADSs. Any such non-Korean holder of our common stock or ADS, including a corporation, which seeks to defer taxation on capital gains arising from the stock transfer will be required to submit a tax deferral application in prescribed form to the Korean tax authorities when filing its tax return for the 2019 tax year. Notwithstanding the foregoing, if the KDIC disposed of 50% or more of the shares of our common stock it received in the stock transfer between the end of 2019 and the end of 2021, the deferral of taxation on capital gains will not be available, and a non-Korean holder who received our common stock or ADSs in the stock transfer will generally be subject to Korean tax on capital gains in an amount equal to the lower of (i) 11.0% (inclusive of local income tax) of the gross realization proceeds (i.e., the value of our common stock or ADSs such holder received in the stock transfer) or (ii) 22.0% (inclusive of local income tax) of the net realized gain. However, such capital gains tax may not apply, or may apply at a reduced rate, if such holder establishes its entitlement to an exemption or rate reduction under an applicable tax treaty or Korean tax law. See "Item 10.E. Taxation—Korean Taxation—Tax Treaties" for information regarding tax treaty benefits.

While the KDIC received a tax ruling from the National Tax Service of Korea in June 2019 that the sale of the shares of our common stock it received in the stock transfer will be treated as a sale of shares due to an unavoidable reason (i.e., a disposal of shares in order to fulfil a legally imposed obligation) and that the deferral of taxation on capital gains will continue to apply even if the sale occurred within two years from the end of 2019, there is no assurance that such tax ruling will be followed. Accordingly, if you received our common stock or ADSs in the stock transfer, prior sales by the KDIC of shares of our common stock may result in adverse Korean tax consequences for you.

#### Ownership of our common stock is restricted under Korean law.

Under the Financial Holding Company Act, a single shareholder, together with its affiliates, is generally prohibited from owning more than 10.0% of the issued and outstanding shares of voting stock of a bank holding company such as us that controls a nationwide bank, with the exception of certain shareholders that are non-financial business group companies, whose applicable limit was reduced from 9.0% to 4.0% pursuant to an amendment of the Financial Holding Company Act which became effective in February 2014. To the extent that the total number of shares of our common stock (including those represented by ADSs) that you and your affiliates own together exceeds the applicable limits, you will not be entitled to exercise the voting rights for the excess shares, and the Financial Services Commission may order you to dispose of the excess shares within a period of up to six months. Failure to comply with such an order would result in an administrative fine of up to 0.03% of the book value of such shares per day until the date of disposal. Non-financial business group companies can no longer acquire more than 4.0% of the issued and outstanding shares of voting stock of a bank holding company pursuant to the amended Financial Holding Company Act, which grants an exception for non-financial business group companies which, at the time of the enactment of the amended provisions, held more than 4.0% of the shares thereof with the approval of the Financial Services Commission before the amendment. See "Item 4.B. Business Overview—Supervision and Regulation—Principal Regulations Applicable to Financial Holding Companies—Restrictions on Ownership of a Financial Holding Company."

### You will not be able to exercise dissent and appraisal rights unless you have withdrawn the underlying shares of our common stock and become our direct shareholder.

In some limited circumstances, including the transfer of the whole or any significant part of our business and the merger or consolidation of us with another company, dissenting shareholders have the right to require us to purchase their shares under Korean law. However, if you hold our ADSs, you will not be able to exercise such dissent and appraisal rights if the depositary refuses to do so on your behalf. Our deposit agreement does not require the depositary to take any action in respect of exercising dissent and appraisal rights. In such a situation, holders of our ADSs must withdraw the underlying common stock from the ADS facility (and incur charges relating to that withdrawal) and become our direct shareholder prior to the record date of the shareholders' meeting at which the relevant transaction is to be approved, in order to exercise dissent and appraisal rights.

### You may be limited in your ability to deposit or withdraw common stock.

Under the terms of our deposit agreement, holders of common stock may deposit such stock with the depositary's custodian in Korea and obtain ADSs, and holders of ADSs may surrender ADSs to the depositary and receive common stock. However, to the extent that a deposit of common stock exceeds any limit that we may specify from time to time, that common stock will not be accepted for deposit unless our consent with respect to such deposit has been obtained. We currently have not set any such limit; however, we have the right to do so at any time. Under the terms of the deposit agreement, no consent would be required if the shares of common stock were to be obtained through a dividend, free distribution, rights offering or reclassification of such stock. We have consented, under the terms of the deposit agreement, to any deposit unless the deposit would be prohibited by applicable laws or violate our articles of incorporation. If we choose to impose a limit on deposits in the future, however, we might not consent to the deposit of any additional common stock. In that circumstance, if you surrender ADSs and withdraw common stock, you may not be able to deposit the stock again to obtain ADSs. See "Item 4.B. Business Overview—Supervision and Regulation—Restrictions Applicable to Shares" and "Item 10.D. Exchange Controls—Restrictions Applicable to Shares."

#### You will not have preemptive rights in some circumstances.

The Korean Commercial Code, as amended, and our articles of incorporation require us, with some exceptions, to offer shareholders the right to subscribe for new shares of our common stock in proportion to their existing shareholding ratio whenever new shares are issued. If we offer any rights to subscribe for additional shares of our common stock or any rights of any other nature, the depositary, after consultation with us, may make the rights available to holders of our ADSs or use commercially feasible efforts to dispose of the rights on behalf of such holders, in a riskless principal capacity, and make the net proceeds available to such holders. The depositary will make rights available to holders of our ADSs only if:

- we have requested in a timely manner that those rights be made available to such holders;
- the depositary has received the documents that are required to be delivered under the terms of the
  deposit agreement, which may include confirmation that a registration statement filed by us under the
  U.S. Securities Act of 1933, as amended, or the Securities Act, is in effect with respect to those shares or
  that the offering and sale of those shares is exempt from or is not subject to the registration requirements
  of the Securities Act; and
- the depositary determines, after consulting with us, that the distribution of rights is lawful and commercially feasible.

Holders of our common stock located in the United States may not exercise any rights they receive absent registration or an exemption from the registration requirements under the Securities Act.

We are under no obligation to file any registration statement with the U.S. Securities and Exchange Commission or to endeavor to cause such a registration statement to be declared effective. Moreover, we may not be able to establish an exemption from registration under the Securities Act. Accordingly, you may be unable to participate in our rights offerings and may experience dilution in your holdings. If a registration statement is required for you to exercise preemptive rights but is not filed by us or is not declared effective, you will not be able to exercise your preemptive rights for additional ADSs and you will suffer dilution of your equity interest in us. If the depositary is unable to sell rights that are not exercised or not distributed or if the sale is not lawful or feasible, it will allow the rights to lapse, in which case you will receive no value for these rights.

# Your dividend payments and the amount you may realize upon a sale of your ADSs will be affected by fluctuations in the exchange rate between the U.S. dollar and the Won.

Our common stock is listed on the KRX KOSPI Market of the Korea Exchange and quoted and traded in Won. Cash dividends, if any, in respect of the shares represented by the ADSs will be paid to the depositary in Won and then converted by the depositary into U.S. dollars, subject to certain conditions. Accordingly, fluctuations in the exchange rate between the Won and the U.S. dollar will affect, among other things, the

amounts you will receive from the depositary in respect of dividends, the U.S. dollar value of the proceeds that you would receive upon a sale in Korea of the shares of our common stock obtained upon surrender of ADSs and the secondary market price of ADSs. Such fluctuations will also affect the U.S. dollar value of dividends and sales proceeds received by holders of our common stock.

# The market value of your investment may fluctuate due to the volatility of, and government intervention in, the Korean securities market.

Our common stock is listed on the KRX KOSPI Market, which has a smaller market capitalization and is more volatile than the securities markets in the United States and many European countries. The market value of ADSs may fluctuate in response to the fluctuation of the trading price of shares of our common stock on the KRX KOSPI Market. The KRX KOSPI Market has experienced substantial fluctuations in the prices and volumes of sales of listed securities and the KRX KOSPI Market has prescribed a fixed range in which share prices are permitted to move on a daily basis. The KOSPI was 2,575.9 on April 17, 2023. There is no guarantee that the stock prices of Korean companies will not decline again in the future. Like other securities markets, including those in developed markets, the Korean securities market has experienced problems including market manipulation, insider trading and settlement failures. The recurrence of these or similar problems could have a material adverse effect on the market price and liquidity of the securities of Korean companies, including our common stock and ADSs, in both the domestic and the international markets.

The Korean government has the potential ability to exert substantial influence over many aspects of the private sector business community, and in the past has exerted that influence from time to time. For example, the Korean government has induced mergers to reduce what it considers excess capacity in a particular industry and has also induced private companies to publicly offer their securities. Similar actions in the future could have the effect of depressing or boosting the Korean securities market, whether or not intended to do so. Accordingly, actions by the government, or the perception that such actions are taking place, may take place or has ceased, may cause sudden movements in the market prices of the securities of Korean companies in the future, which may affect the market price and liquidity of our common stock and ADSs.

# If the Korean government deems that emergency circumstances are likely to occur, it may restrict you and the depositary from converting and remitting dividends and other amounts in U.S. dollars.

If the Korean government deems that certain emergency circumstances, including, but not limited to, severe and sudden changes in domestic or overseas economic circumstances, extreme difficulty in stabilizing the balance of payments or implementing currency, exchange rate and other macroeconomic policies, have occurred or are likely to occur, it may impose certain restrictions provided for under the Foreign Exchange Transaction Law, including the suspension of payments or requiring prior approval from governmental authorities for any transaction. See "Item 10.D. Exchange Controls—General."

## Other Risks

# You may not be able to enforce a judgment of a foreign court against us.

We are a corporation with limited liability organized under the laws of Korea. A majority of our directors and officers and other persons named in this annual report reside in Korea, and a significant portion of the assets of our directors and officers and other persons named in this annual report and a substantial majority of our assets are located in Korea. As a result, it may not be possible for you to effect service of process within the United States, or to enforce against them or us in the United States judgments obtained in United States courts based on the civil liability provisions of the federal securities laws of the United States. There is doubt as to the enforceability in Korea, either in original actions or in actions for enforcement of judgments of United States courts, of civil liabilities predicated on the United States federal securities laws.

### Item 4. INFORMATION ON THE COMPANY

For certain of the information required by subpart 1400 of Regulation S-K not included in this Item 4, see "Item 8.A. Consolidated Statements and Other Financial Information."

## Item 4.A. History and Development of the Company

#### Overview

We are a financial holding company that was newly established on January 11, 2019 pursuant to a "comprehensive stock transfer" under Korean law, whereby holders of the common stock of Woori Bank and certain of its subsidiaries transferred all of their shares to us and in return received shares of our common stock. We were established under the Financial Holding Company Act of Korea, which, together with associated regulations and a related Enforcement Decree, enables banks and other financial institutions, including insurance companies, invest trust companies, credit card companies and securities companies, to be organized and managed under the auspices of a single financial holding company. As a result of the stock transfer, Woori Bank and certain of its former wholly-owned subsidiaries, Woori FIS Co., Ltd., Woori Finance Research Institute Co., Ltd., Woori Credit Information Co., Ltd., Woori Fund Services Co., Ltd. and Woori Private Equity Asset Management Co., Ltd., became our direct and wholly-owned subsidiaries. Accordingly, our overall business and operations after the stock transfer, on a consolidated basis, are identical to those of Woori Bank on a consolidated basis immediately prior to the stock transfer.

The stock transfer constituted a succession for purposes of Rule 12g-3(a) under the Securities Exchange Act of 1934, as amended, such that our common stock was deemed registered under Section 12(b) of the Exchange Act by operation of Rule 12g-3(a). Following the stock transfer, we file reports under the Exchange Act as the successor issuer to Woori Bank.

Our legal and commercial name is Woori Financial Group Inc. Our registered office and corporate headquarters are located at 51, Sogong-ro, Jung-gu, Seoul, Korea. Our telephone number is 822-2125-2000. Our website address is <a href="https://www.woorifg.com">https://www.woorifg.com</a>.

The U.S. Securities and Exchange Commission, or the SEC, maintains a website (http://www.sec.gov), which contains reports, proxy and information statements and other information regarding issuers that file electronically with the SEC.

#### History

## Establishment of Woori Bank

The predecessor of Woori Bank was originally established in 1899 and operated as the Commercial Bank of Korea until 1998, when it was acquired by the KDIC and merged with another commercial bank, Hanil Bank, which had been established in 1932. The surviving entity in the merger was renamed Hanvit Bank, which name was changed to Woori Bank in May 2002.

# Establishment of Woori Finance Holdings

In response to a financial and economic downturn in Korea beginning in late 1997, the Korean government announced and implemented a series of comprehensive policy packages to address structural weaknesses in the Korean economy and the financial sector. As part of these measures, on October 1, 1998, the KDIC purchased 95.0% of the outstanding shares of the Commercial Bank of Korea and 95.6% of the outstanding shares of Hanil Bank, and subsequently merged Hanil Bank into the Commercial Bank of Korea (which was renamed Hanvit Bank). These banks had suffered significant losses in 1997 and 1998. The Korean government took pre-emptive measures to ensure the survival of these and other banks as it believed that bank failures would have a substantial negative impact on the Korean economy.

In December 2000, the Korean government wrote down the capital of Hanvit Bank, as well as Kyongnam Bank, Kwangju Bank and Peace Bank of Korea, to zero through a Financial Services Commission capital

reduction order pursuant to its regulatory authority. The Korean government immediately recapitalized these banks by injecting public funds through the KDIC. In December 2000, the KDIC made initial capital injections to Hanvit Bank (\(\forall 2,764\) billion), Kyongnam Bank (\(\forall 259\) billion), Kwangju Bank (\(\forall 170\) billion) and Peace Bank of Korea (\(\forall 273\) billion), in return for new shares of those banks. The KDIC also agreed to make additional capital contributions, not involving the issuance of new shares, in the future, which were made in September 2001 to Hanvit Bank (\(\forall 1,877\) billion), Kyongnam Bank (\(\forall 94\) billion), Kwangju Bank (\(\forall 273\) billion) and Peace Bank of Korea (\(\forall 339\) billion).

In addition, in November 2000, the KDIC established Hanaro Merchant Bank to restructure substantially all of the assets and liabilities of four failed merchant banks (Yeungnam Merchant Banking Corporation, Central Banking Corporation, Korea Merchant Banking Corporation and H&S Investment Bank) that were transferred to it.

In March 2001, the KDIC established Woori Finance Holdings as a new financial holding company and transferred all of the shares in each of Hanvit Bank, Kyongnam Bank, Kwangju Bank, Peace Bank of Korea and Hanaro Merchant Bank held by the KDIC to Woori Finance Holdings in exchange for its newly issued shares. Accordingly, Woori Finance Holdings became the sole owner of those entities. Woori Finance Holdings subsequently listed its common stock on the KRX KOSPI Market in June 2002 and listed ADSs representing its common stock on the New York Stock Exchange in September 2003.

# Reorganization and Expansion of Woori Finance Holdings and Woori Bank

Following its establishment and its acquisition of its subsidiaries, Woori Finance Holdings developed a reorganization and integration plan designed to reorganize the corporate structure of some of its subsidiaries and integrate its operations under a single management structure. As part of this plan:

- From December 2001 through February 2002, Peace Bank of Korea was restructured by:
  - splitting off its commercial banking operations and merging them into Woori Bank;
  - changing the name of Peace Bank of Korea to Woori Credit Card; and
  - transferring the credit card operations of Woori Bank to Woori Credit Card.
- In March 2003, the credit card operations of Kwangju Bank were transferred to Woori Credit Card.
- In August 2003, Woori Investment Bank (formerly named Hanaro Merchant Bank) was merged with Woori Bank.

In succeeding years, Woori Finance Holdings and Woori Bank further reorganized and expanded their operations, including through mergers, acquisitions and investments. For example:

- In March 2004, Woori Credit Card was merged with Woori Bank.
- In October and December 2004, Woori Finance Holdings acquired an aggregate 27.3% voting interest in LG Investment & Securities Co., Ltd., which was subsequently renamed Woori Investment & Securities.
- In May 2005, Woori Finance Holdings acquired a 90.0% interest in LG Investment Trust Management Co., Ltd., which was subsequently renamed Woori Asset Management.
- In October 2005, Woori Bank established Woori Private Equity as a consolidated subsidiary.
- In April 2008, Woori Finance Holdings acquired a 51.0% interest in LIG Life Insurance Co., Ltd., which was subsequently renamed Woori Aviva Life Insurance.
- In March 2011, Woori Finance Holdings acquired certain assets and assumed certain liabilities of Samhwa Mutual Savings Bank through a newly established subsidiary, Woori FG Savings Bank.
- In September 2012, Woori FG Savings Bank acquired certain assets and assumed certain liabilities of Solomon Mutual Savings Bank.

- In October 2012, Woori Finance Holdings established Woori Finance Research Institute, which engages
  in economic and finance research, management consulting, and management and sales of intellectual
  property rights.
- In April 2013, Woori Bank effected a spin-off of its credit card business into a newly established wholly-owned subsidiary of Woori Finance Holdings, Woori Card.
- In June 2013, through an internal reorganization, Kumho Investment Bank (previously a subsidiary of Woori Private Equity and subsequently renamed Woori Investment Bank), in which Woori Finance Holdings held a 41.6% interest, became its consolidated subsidiary, and \(\forall 70\) billion of new capital was injected into such entity.
- In January 2014, Woori Bank completed the purchase of an additional 27% equity interest (in addition to the 6% equity interest it previously acquired through its subsidiary PT. Bank Woori Indonesia) in PT. Bank Himpunan Saudara 1906 Tbk, an Indonesian commercial bank with a network of over 100 branches and offices throughout Indonesia. In December 2014, PT. Bank Woori Indonesia merged with and into PT. Bank Himpunan Saudara 1906 Tbk. The merged entity, in which Woori Bank currently holds an 84.2% equity interest, was renamed PT Bank Woori Saudara Indonesia 1906 Tbk and became its consolidated subsidiary.
- In October 2016, Woori Bank acquired a 51% equity interest in Wealth Development Bank, a thrift bank in the Philippines with a network of 16 branches and approximately 300 employees.
- In November 2016, Woori Bank obtained a banking license to establish a local subsidiary in Vietnam, Woori Bank Vietnam, which commenced operations in January 2017.
- In June 2018, Woori Bank acquired VisionFund (Cambodia) Ltd., a microfinance deposit-taking institution in Cambodia, and renamed it WB Finance Co., Ltd. In February 2020, WB Finance Co., Ltd. merged with Woori Finance (Cambodia) Plc., a Cambodian microfinance institution, and in November 2021, it obtained a commercial banking license from the Cambodian financial authorities and began its nationwide operations as Woori Bank (Cambodia) PLC.
- In November 2018, Woori Bank established a German subsidiary, Woori Bank Europe Gmbh, which is headquartered in Frankfurt.

# **Privatization Plan**

In June 2013, the Korean government, through the Public Funds Oversight Committee of the Financial Services Commission, announced an updated plan to privatize Woori Finance Holdings and its former subsidiaries, including Woori Bank. The privatization plan provided for the segregation of such entities into three groups and the disposal of the Korean government's interest in these entities held through the KDIC in a series of transactions, most of which have been completed.

# Spin-off of Kwangju Bank and Kyongnam Bank

In August 2013, the board of directors of Woori Finance Holdings approved a plan to establish two new companies, KJB Financial Group and KNB Financial Group (which we refer to as the New Holdcos), through a spin-off of its businesses related to the holding of the shares and thereby controlling the business operations of Kwangju Bank and Kyongnam Bank, respectively. The spin-off was approved at an extraordinary general meeting of the shareholders of Woori Finance Holdings held in January 2014 and was effected in May 2014. After the spin-off, KJB Financial Group owned the shares of Kwangju Bank previously held by Woori Finance Holdings, and KNB Financial Group owned the shares of Kyongnam Bank previously held by Woori Finance Holdings. Woori Finance Holdings no longer owned any shares of Kwangju Bank or Kyongnam Bank, and neither they nor the New Holdcos were its subsidiaries, after the spin-off. Following the spin-off, each of these banks was merged with the relevant New Holdco.

In October 2014, the KDIC sold its 56.97% ownership interest in Kwangju Bank and Kyongnam Bank to JB Financial Group and BNK Financial Group (formerly known as BS Financial Group), respectively.

Disposal of Woori Financial, Woori Asset Management, Woori F&I, Woori Investment & Securities, Woori Aviva Life Insurance and Woori FG Savings Bank

In March 2014, Woori Finance Holdings sold its 52.0% ownership interest in Woori Financial to KB Financial Group for the sale price of \(\forall \)280 billion.

In May 2014, Woori Finance Holdings sold its 100.0% ownership interest in Woori Asset Management to Kiwoom Securities for the sale price of \(\forall 76\) billion.

In June 2014, Woori Finance Holdings sold its 100.0% ownership interest in Woori F&I to Daishin Securities for the sale price of \(\forall \)368 billion.

In June 2014, Woori Finance Holdings also sold its 37.9% ownership interest in Woori Investment & Securities, its 51.6% ownership interest in Woori Aviva Life Insurance and its 100.0% ownership interest in Woori FG Savings Bank to NongHyup Financial Group Inc. for the sale price of \(\forall 1,039\) billion in a collective sale.

## Merger of Woori Bank and Woori Finance Holdings

In July 2014, Woori Bank entered into a merger agreement with Woori Finance Holdings, providing for the merger of Woori Finance Holdings with and into Woori Bank. The merger agreement was approved by the shareholders of Woori Finance Holdings at an extraordinary general meeting held on October 10, 2014. Pursuant to the merger agreement, Woori Finance Holdings merged with and into Woori Bank on November 1, 2014, such that Woori Bank remained as the surviving entity, and Woori Finance Holdings ceased to exist, after the merger. In connection with the merger, shareholders of Woori Finance Holdings recorded in its shareholder register as of November 1, 2014 received one share of Woori Bank's common stock for each share of common stock of Woori Finance Holdings they held.

As a result of the merger, the other remaining subsidiaries of Woori Finance Holdings, including Woori Card, Woori Private Equity, Woori FIS, Woori Investment Bank and Woori Finance Research Institute, became Woori Bank's subsidiaries. Accordingly, Woori Bank's overall business and operations after the merger, on a consolidated basis, were substantially identical to those of Woori Finance Holdings on a consolidated basis prior to the merger.

Woori Bank was an unlisted corporation prior to the merger, while Woori Finance Holdings had its common stock listed on the KRX KOSPI Market and its ADSs listed on the New York Stock Exchange. Following the merger, Woori Bank became newly listed on the KRX KOSPI Market and succeeded to Woori Finance Holdings' listing on the New York Stock Exchange.

# Sales of the KDIC's Ownership Interest

Pursuant to the Korean government's privatization plan, in December 2014, the KDIC sold 40,143,022 shares of Woori Bank's common stock (representing 5.9% of its outstanding common stock) through a bidding process in Korea. In addition, in December 2016 and January 2017, the KDIC sold an aggregate of 200,685,395 shares of Woori Bank's common stock (representing 29.7% of its outstanding common stock) in stakes ranging from 3.7% to 6.0% to seven financial companies through a bidding process. In 2017, pursuant to a series of transactions related to call options previously granted in connection with the KDIC's sale of Woori Bank's common stock in December 2014, the KDIC sold an aggregate of 19,852,364 shares of Woori Bank's common stock (representing 2.9% of its outstanding common stock). As a result of such transactions, the KDIC's ownership interest in Woori Bank was reduced to 18.4%. In connection with our establishment in January 2019 as a new financial holding company pursuant to a "comprehensive stock transfer" under Korean law, the KDIC received 124,604,797 shares of our outstanding common stock in exchange for the common stock of Woori Bank it owned. In June 2019, the Financial Services Commission approved the KDIC's plan to sell all such common stock in multiple transactions by 2022. In April 2021, pursuant to such plan, the KDIC sold 14,445,354 shares of our common stock (representing 2.0% of our outstanding common stock) in a block trade. In December 2021, the KDIC sold an aggregate 9.3% of our outstanding common stock in stakes ranging from 1.0% to 4.0% to four

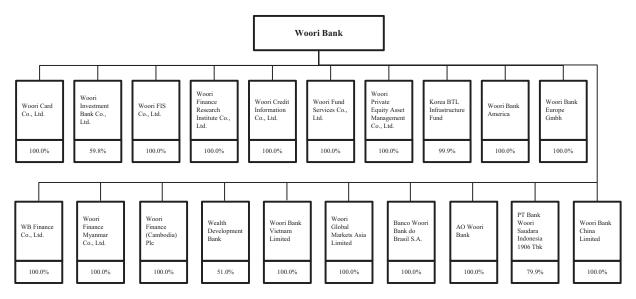
companies and 1.0% to our employee stock ownership association. In February 2022, the KDIC sold an aggregate of 15,860,000 shares of our common stock (representing 2.2% of our outstanding common stock) in a block trade. In May 2022, the KDIC further sold an aggregate of 17,000,000 shares of our common stock (representing 2.3% of our outstanding common stock) in a block trade. The KDIC currently owns 1.3% of our outstanding common stock.

In December 2016, in connection with the KDIC's sale of shares of Woori Bank's common stock, Woori Bank entered into an agreement with the KDIC, pursuant to which Woori Bank was required to use its best efforts to cause an employee of the KDIC nominated by it to be appointed as Woori Bank's non-standing director, so long as the KDIC either (x) owned 10% or more of Woori Bank's total issued shares with voting rights or (y) owned more than 4% but less than 10% of Woori Bank's total issued shares with voting rights and remained its largest shareholder (other than the National Pension Service of Korea). After such agreement with Woori Bank expired, we entered into an agreement with the KDIC with similar terms in July 2019, which has since been terminated as the KDIC's ownership interest in us has been reduced to less than 4.0%.

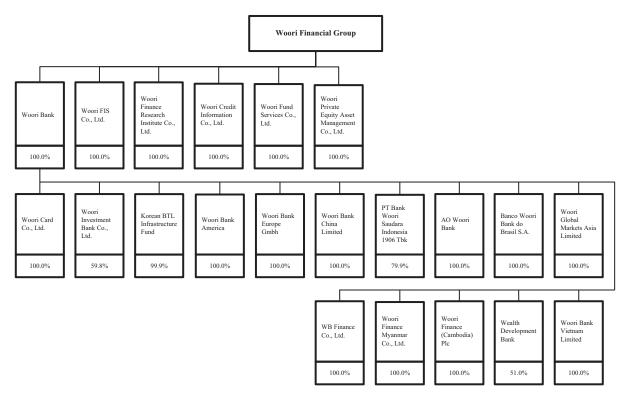
### **Establishment of Woori Financial Group**

We were established as a new financial holding company on January 11, 2019 pursuant to a "comprehensive stock transfer" under Korean law, whereby holders of the common stock of Woori Bank and certain of its subsidiaries transferred all of their shares to us and in return received shares of our common stock. The stock transfer was approved by the shareholders of Woori Bank at an extraordinary general meeting held on December 28, 2018. In the stock transfer, each holder of one share of Woori Bank's common stock recorded in its shareholder register as of November 15, 2018 received one share of our common stock. In addition, we issued our common stock to Woori Bank in exchange for the outstanding common stock of certain of Woori Bank's wholly-owned subsidiaries that became our wholly-owned direct subsidiaries. Specifically, in connection with the stock transfer, Woori Bank transferred all shares of common stock held by it of Woori FIS Co., Ltd., Woori Finance Research Institute Co., Ltd., Woori Credit Information Co., Ltd., Woori Fund Services Co., Ltd. and Woori Private Equity Asset Management Co., Ltd., all of which were Woori Bank's wholly-owned subsidiaries, to us and, as consideration for such transferred shares, received shares of our common stock in accordance with the specified stock transfer ratio applicable to each such subsidiary. Following the completion of the stock transfer, Woori Bank, Woori FIS Co., Ltd., Woori Finance Research Institute Co., Ltd., Woori Credit Information Co., Ltd., Woori Fund Services Co., Ltd. and Woori Private Equity Asset Management Co., Ltd. became our direct and wholly-owned subsidiaries.

The following chart illustrates the organizational structure of Woori Bank prior to the completion of the stock transfer:



The following chart illustrates our organizational structure after the completion of the stock transfer:



In connection with the stock transfer, Woori Bank's common stock was suspended from trading from January 9, 2019 and was de-listed from the KRX KOSPI Market on February 13, 2019. Following the stock transfer, our common stock was newly listed on the KRX KOSPI Market on February 13, 2019, and our ADSs succeeded to the listing of Woori Bank's ADSs on the New York Stock Exchange on January 11, 2019.

The shareholders of Woori Bank were entitled to exercise appraisal rights with respect to its common stock held by them at a purchase price of \(\formall^416,079\) per share, in accordance with Korean law. The period for exercise of appraisal rights started on December 28, 2018 and ended on January 7, 2019, during which shareholders exercised appraisal rights with respect to an aggregate of 11,453,702 shares of common stock of Woori Bank. The payment of the purchase price for such common stock held by the exercising shareholders was made on January 9, 2019, in the aggregate amount of \(\formall^4184\) billion. As a result of the exchange for our common stock of such treasury shares obtained by Woori Bank pursuant to the exercise of appraisal rights by its shareholders and other treasury shares it held, as well as the transfer by Woori Bank of the shares it held in its relevant subsidiaries to us, Woori Bank received 18,346,782 shares of our common stock in the stock transfer, which constituted our treasury shares and represented 2.7% of our total issued common stock as of January 11, 2019. In March 2019, Woori Bank sold all such shares to institutional investors in a block trade.

## Reorganization and Expansion of Woori Financial Group

After our establishment, we have further reorganized and expanded our operations, including through mergers, acquisitions and investments. For example:

- In August 2019, we acquired a 73% equity interest in Woori Asset Management Corp. (formerly known as Tongyang Asset Management Corp.) from Tongyang Life Insurance Co., Ltd., which became our consolidated subsidiary.
- In September 2019, we conducted a "comprehensive stock exchange" under Korean law with Woori Bank, the former parent company of Woori Card, whereby Woori Bank transferred all of its Woori Card shares to us and in return received a combination of 42,103,377 shares of our common stock and \$\forall 598\$ billion in cash, based on an exchange ratio of 0.4697442 shares of our common stock for each Woori Card share. As a result of the stock exchange, Woori Card ceased to be Woori Bank's subsidiary and became our direct and wholly-owned subsidiary. Pursuant to applicable Korean law, Woori Bank was required to dispose of the 42,103,377 shares of our common stock it received in the stock exchange within six months of its consummation and sold 28,890,707 of such shares to Fubon Life Insurance Co., Ltd. in September 2019 for \$\forall 358\$ billion and 13,212,670 of such shares in block trades in November 2019
- In September 2019, we acquired a 59.83% equity interest in Woori Investment Bank from Woori Bank, its former parent company, for a purchase price of \(\foat{\psi}\)393 billion. As a result of the purchase, Woori Investment Bank ceased to be Woori Bank's subsidiary and became our direct consolidated subsidiary. Woori Investment Bank's common stock is listed on the KRX KOSPI Market.
- In October 2019, Woori Bank acquired a 20% equity interest in Lotte Card Co., Ltd., which was the sixth largest credit card issuer in Korea at the time of acquisition, according to the Financial Statistics Information System, which is maintained by the Financial Supervisory Service. See "Item 4.B. Business Overview—Credit Cards."
- In December 2019, we acquired Woori Global Asset Management Co. (formerly known as ABL Global Asset Management Co.) from Anbang Asset Management (Hong Kong) Co., Limited, which became our consolidated subsidiary.
- In December 2019, we acquired an aggregate 51% equity interest in Woori Asset Trust Co., Ltd. (formerly known as Kukje Asset Trust Ltd.), consisting of (i) 44.46% from its majority shareholders, including former chairman Jae-Eun Yoo, and (ii) 6.54% from Woori Bank. As part of the share purchase agreement with the former majority shareholders, we have agreed to additionally acquire a 21.27%

- equity interest in the future, subject to certain conditions. As of March 31, 2023, we have completed the additional acquisitions and currently own an aggregate 72.3% equity interest in Woori Asset Trust Co., Ltd., which is currently our consolidated subsidiary.
- In December 2020, we acquired a 74.0% equity interest in Woori Financial Capital Co., Ltd. (formerly known as Aju Capital Co., Ltd.) from Well to Sea Investment for a purchase price of \(\frac{\psi}{8}572\) billion. Notwithstanding the foregoing, for accounting purposes, Woori Financial Capital Co., Ltd. became our consolidated subsidiary in October 2020. In March 2021, we acquired Woori Savings Bank (formerly known as Aju Savings Bank) from Woori Financial Capital Co., Ltd., our consolidated subsidiary, and as a result, Woori Savings Bank ceased to be the subsidiary of Woori Financial Capital Co., Ltd. and became our direct consolidated subsidiary. We acquired additional equity interests in Woori Financial Capital Co., Ltd. of 12.9% and 3.6% from Aju Corporation in April 2021 and May 2021, respectively, as a result of which our aggregate equity interest in Woori Financial Capital Co., Ltd. became 90.5%. In August 2021, we acquired the remaining shares of Woori Financial Capital Co., Ltd. and integrated Woori Financial Capital Co., Ltd. as our wholly-owned subsidiary through a "comprehensive stock exchange" under Korean law. As a result of such transaction, the total number of our outstanding shares of common stock increased to 728,058,225.
- In January 2022, we established Woori Financial F&I Inc. as a wholly-owned subsidiary to invest in non-performing loans and restructuring companies.
- In March 2023, we acquired a 52% equity interest as well as the management rights in Daol Investment from its largest shareholder, Daol Investment & Securities Co., Ltd. Daol Investment is a venture capital company with \( \forall \)1.4 trillion of assets under its management, and has the 5th largest amount of assets under its management among all venture capital companies in South Korea based on applicable industry standards. We subsequently changed its name to Woori Venture Partners Co., Ltd.

### Item 4.B. Business Overview

We are one of the largest financial holding companies in Korea, in terms of consolidated total assets, and our operations include Woori Bank, one of the largest commercial banks in Korea. Our subsidiaries collectively engage in a broad range of businesses, including corporate banking, consumer banking, credit card operations, investment banking, capital markets activities, international banking, asset management, bancassurance and other businesses. We provide a wide range of products and services to our customers, which mainly comprise small-and medium-sized enterprises and individuals, as well as some of Korea's largest corporations. As of December 31, 2022, we had, on a consolidated basis, total assets of \(\forall \pm 480,474\) billion, total liabilities of \(\forall 448,847\) billion and total equity of \(\forall 31,627\) billion.

As one of the leading financial services groups in Korea, we believe our core competitive strengths include the following:

Strong and long standing relationships with corporate customers. Historically our operations concentrated on large corporate customers. As a result, we believe that we have strong relationships with many of Korea's leading corporate groups, and we are the main creditor bank to 10 of the 32 largest Korean corporate borrowers. Further enhancing our corporate loan portfolio is our ability to lend to small- and medium-sized enterprise customers. As of December 31, 2022, we had 424,062 small- and medium-sized enterprise borrowers.

Large and loyal retail customer base. With respect to our consumer banking operations, we have the third-largest deposit base among Korean commercial banks, and over 24.5 million retail customers, representing about half of the Korean adult population. Of these customers, over 10.0 million are active customers, meaning that they have a deposit account with us with a balance of at least \wideta300,000 or have a loan account with us.

*Extensive distribution and marketing network.* We serve our customers primarily through one of the largest banking networks in Korea, comprising 713 branches and 3,950 ATMs and cash dispensers as of December 31, 2022. Through Woori Bank, we also operate 10 dedicated corporate banking centers and 86 general managers for our large corporate customers and 774 relationship managers stationed at 582 branches (as well as 500 additional non-stationed employees who serve as relationship managers as needed) for our small- and medium-sized

enterprise customers as of December 31, 2022. In addition, we have Internet and mobile banking platforms to enhance customer convenience, reduce service delivery costs and allow our branch staff to focus on marketing and sales.

Strong capital base. As of December 31, 2022, our consolidated equity totaled \(\foatharrow\)32 trillion, and our total capital adequacy ratio was 15.30%. Our management team at the holding company carefully coordinates the capital and dividend plans of each of our subsidiaries and for the consolidated group to ensure that we optimize our capital position. We believe our strong capital base and coordinated capital management enable us to support growth of our core businesses and to pursue franchise-enhancing initiatives such as selective investments and acquisitions.

Strong and experienced management team. We benefit from our management team's extensive experience accumulated with our subsidiaries and their predecessors. In January 2019, Tae-Seung Son assumed the role of our representative director, president and chief executive officer, which we believe enhanced the quality of our management team and our corporate governance. In March 2023, Jong-Yong Yim assumed the role of our representative director, president and chief executive officer, which we believe will continue to enhance the quality of our new management team and future competitiveness. We also believe that the extensive experience of many members of our management team in the financial sector will help us to continue to strengthen our operations.

# **Strategy**

We aim to continue to build our position as a comprehensive financial services provider in Korea, with a view to having our business platform and operating structure on par with those of leading global financial institutions. The key elements of our strategy are as follows:

Provide comprehensive financial services and maximize synergies among our subsidiaries through our financial holding company structure. We plan to become a comprehensive financial services provider capable of developing and cross-selling a diverse range of products and services to our large existing base of retail and corporate banking customers, so that we can more effectively compete with leading domestic and international financial institutions. We believe that the adoption of a financial holding company structure will continue to help us increase customer satisfaction, generate synergies and maximize profitability, by creating an integrated system among our affiliated companies and allowing us to effectively provide various financial services, including comprehensive one-stop asset management services customized for clients, based on active expansion of non-banking and global business operations. One of the intended benefits of our financial holding company structure is that it enhances our ability to engage in mergers and acquisitions which we may decide to pursue as part of our strategy. For example, in an effort to expand our asset management services, we acquired equity interests in Woori Asset Management Corp., Woori Global Asset Management Co. and Woori Asset Trust Co., Ltd. in 2019 and Woori Financial Capital Co., Ltd. in 2020, which became our consolidated subsidiaries. We also established Woori Financial F&I Inc. as our direct consolidated subsidiary in January 2022. In an effort to expand our non-banking business, we acquired a 52% equity interest as well as the management rights in Daol Investment, a venture capital company with  $\mathbf{W}1.4$  trillion of assets under its management, in March 2023. We may consider additionally acquiring or merging with other financial institutions, particularly in the non-banking sector, to achieve more balanced growth and further diversify our revenue base.

In addition, we believe our financial holding company structure gives us a competitive advantage over stand-alone banks and other financial institutions by:

- allowing us to offer a more extensive range of financial products and services;
- enabling us to share customer information, which is not permitted outside a financial holding company structure, thereby enhancing our risk management and cross-selling capabilities;
- enhancing our ability to reduce costs in areas such as back-office processing and procurement; and
- enabling us to raise and manage capital on a centralized basis.

We aim to maximize the synergies from our diverse financial product and service offerings by cross developing and selling products and encouraging collaboration of operations among our subsidiaries. In particular, we promote collaborative projects across our investment banking, digital, wealth management and global operations.

Further improve our asset quality and strengthen our risk management practices. Woori Bank was one of the earliest and most aggressive banks in Korea to actively reduce non-performing loans through charge-offs and sales to third parties, and has taken various measures to facilitate the disposal of its substandard or below loans. As a result of these and other initiatives, our ratio of non-performing loans to total loans has been maintained at a relatively low level in recent years. Specifically, our ratio of non-performing loans to total loans was 0.27% as of December 31, 2021 and 0.29% as of December 31, 2022.

One of our highest priorities is to maintain our strong asset quality and enhance our risk management practices on an ongoing basis. We have created a centralized group-wide risk management organization, installed a comprehensive warning and monitoring system, adopted uniform loan loss provisioning policies across all subsidiaries and implemented an advanced credit evaluation system called the "Credit Wizard" at Woori Bank. We have undertaken a series of group-wide reviews of our credit risk management procedures, as well as our risk management infrastructure, in order to develop and implement various measures to further standardize and improve our risk management procedures and systems.

We intend to vigorously maintain a manageable risk profile and balance that risk profile with adequate returns. We believe that our continual focus on upgrading our risk management systems and practices will enable us to maintain our strong asset quality, improve our financial performance and enhance our competitiveness.

Enhance customer profitability through optimization of channel usage, products and services for each customer segment. Our extensive distribution network and wide range of quality products and services has enabled us to serve our customers effectively. However, we intend to further enhance the value proposition to our customers by differentiating products and delivery channels based on the distinct needs of different customer segments.

Retail customers. We generally segment our retail customers into four groups: high net worth; mass affluent; middle class; and mass market. We believe we are relatively competitive in our core customer base, which includes mass affluent and middle class customers, and we serve these customers through our branches by selling customized higher margin services and products, such as investment advice, mutual funds, insurance and personal loans. For our mass market customers, we offer simple, easy-to-understand and relatively more standardized products such as basic deposit and lending products, including mortgage loans, and we encourage the use of alternative distribution channels such as the Internet, mobile banking and ATMs by our mass market customers such that we can serve them in a cost-efficient manner. We serve our high net worth individuals via branches and dedicated private banking centers staffed with experienced private bankers who offer sophisticated tailored financial services. In addition to serving retail customers based on segment, we also offer products and services based on customers' life cycles to optimize our financial solutions for such customers.

Corporate customers. We continually and vigorously review our portfolio of large corporate and small- and medium-sized enterprise customers to refine our database of core accounts and industries in terms of profitability potential. We seek to expand our relationship beyond a pure lending relationship by promoting our foreign exchange, factoring, trade finance and investment banking services to our core small- and medium-sized enterprise customers and cross-selling our investment banking services, derivatives and other risk hedging products, as well as employee retirement products, to our core large corporate customers.

In addition to our customer segment-based marketing strategy, we aim to improve customer loyalty by strengthening customer retention and implementing a customer-focused sales culture and thereby develop a system pursuant to which our growth is facilitated by the growth of our customers.

Diversify our revenue base with a view to reducing our exposure to interest rate cycles and increasing profitability. Currently, in line with the Korean banking industry, we derive a substantial majority of our revenues from our loan and other credit products. To reduce our traditional reliance on lending as a source of

revenue and to increase our profitability, we have been seeking to further diversify our earnings base, in particular by focusing on fee-based services, such as foreign exchange, trade finance and derivatives products, investment banking and advisory investment trust services for our corporate customers and asset management and mutual funds, investment trust products and beneficiary certificates, and life and non-life insurance products for our retail customers.

In addition, we intend to carefully consider potential acquisitions or other strategic investments that fit within our overall strategy. When considering acquisitions, we will focus on opportunities that supplement the range of products and services we offer and strengthen our existing customer base, enable us to maintain our standard for asset quality and profitability and provide us with a reasonable return on our investment. We may also consider acquiring or merging with other financial institutions, particularly in the non-banking sector, to achieve more balanced growth and further diversify our revenue base.

Accelerate digital innovation. The digital finance market has recently seen major growth due to the entry of fintech firms and the rapid digital transformations of our competitors, and the recent social distancing trends resulting from the COVID-19 pandemic have only accelerated the digitalization of finance. We have actively engaged in such trends through the adoption of innovative initiatives and aim to become a leader in digitization. As part of such efforts, in May 2015, Woori Bank established a mobile financial service platform through the launch of the first mobile-only banking service in Korea called WiBee Bank, and in April 2017, Kbank, formed by a consortium with KT Corporation and 20 other companies, in which we, through Woori Bank, own 12.6% of the equity with voting rights as of December 31, 2022, launched its services to become the first Internet-only bank in Korea.

We have also strengthened our alliances with information technology companies to provide innovative electronic payment methods, including Woori Samsung Pay with Samsung Electronics, which is a cardless ATM withdrawal system that utilizes smartphones. Through such partnership with Samsung Electronics, we introduced additional services that allow customers to open checking accounts and apply for debit cards from April 2019, and utilize currency exchange services using the Samsung Pay mobile application from May 2019.

In August 2016, we also launched a program to discover and provide support to innovative fintech startup companies in Korea, currently known as Digital Innovation Lab, or DinnoLab. In October 2019, DinnoLab established an office in Vietnam to support the overseas expansion of such startup companies. In June 2019, we introduced a robotic process automation system to improve our operations, minimize human error, support business activities and increase efficiency and productivity. In August 2019, we launched Woori WON Banking, our main mobile banking application, to provide enhanced digital platform services to our customers.

In May 2020, we launched our "Digital First, Change Everything" campaign and established the Digital Innovation Committee, which comprises certain executive officers, to focus on such group-wide digital strategies. In August 2020, we entered into a memorandum of understanding with KT Corporation to form a joint venture to collaborate on data-based financial services, including a business utilizing MyData, a government initiative for the pooling of customers' data for the provision of financial services, and in January 2021, the Financial Services Commission granted MyData business licenses to Woori Bank and Woori Card. In addition, in 2021, we established the following four "Digital First, Digital Initiative" strategies to promote digital innovation by emphasizing the diffusion of digitalization over a medium- to long-term and creating visible results:

- enhance our competitive strengths in mobile banking;
- · digitalize our channels and business;
- · establish competitive advantages in new markets and technologies; and
- reorganize our digital foundation.

In 2021, pursuant to such strategies, we enhanced our mobile applications and established one-on-one channels that provide customized customer services, including "WON Concierge," "WON Concierge PB" and "AI Consulting Bot," an AI-based customer consultation service. We also established a second office of

DinnoLab in October 2021 to enhance cooperation with startup companies and successfully launched MyData services in December 2021. Finally, we expanded our DevOps organization to provide the relevant personnel with additional autonomy and budget usage.

In February 2022, we recruited and hired a chief digital officer to oversee our group-wide digital strategies and initiatives. Subsequently we implemented a digital strategy to increase the use of our groupwide platforms by our customer base, build data and AI infrastructure, and develop and strengthen our digital-focused personnel. In January 2022, we started to utilize blockchain-based mobile driver's license (mDL) through the adoption of Decentralized Identity (DID) technology. In December 2021, we entered into a MOU with LG AI Research and have subsequently partnered together to develop Artificial Intelligence (AI) language system that is focused on the financial industry, through LG AI Research's super-giant AI model "EXAONE". In September 2022, we started to develop guidelines and digital competency standards for our Career Development Program, in an effort to develop and support our digital professionals at the group level. In November 2022, we established a Digital Initiative Planning Committee to focus on further development in data and new technology governance at the group level. Through these initiatives, and among others, as of December 31, 2022, Woori Bank and Woori Card have achieved an aggregate of 10 million monthly active users. We are in the process of developing the required strategy and the infrastructure to allow universal banking centered around bank application systems, and are striving towards having such system available by 2024.

Expand presence in the global market. We continually expand our global network mainly through Woori Bank and Woori Card and aim to strengthen our overseas operations to diversify our profit base, which is currently concentrated in Korea. We currently maintain, in aggregate, over 560 branches in over 20 countries and have made major strides in our overseas operations since our establishment of the first overseas branch of a Korean commercial bank in Tokyo, Japan in 1968. In December 2014, Woori Bank became the first Korean bank to be involved in a merger with a listed overseas bank when its subsidiary PT. Bank Woori Indonesia merged with and into PT. Bank Himpunan Saudara 1906 Tbk, which was renamed PT Bank Woori Saudara Indonesia 1906 Tbk. In October 2016, Woori Bank acquired a 51% equity interest in Wealth Development Bank, a thrift bank in the Philippines, and partnered with Vicsal Development Corporation, an operator of department stores and supermarkets in the Philippines and another major shareholder of Wealth Development Bank, to actively expand its base of local customers. In addition, in November 2016, Woori Bank obtained a banking license to establish a local subsidiary in Vietnam, Woori Bank Vietnam, which commenced operations in January 2017 and manages the local operations of Woori Bank's branches in Vietnam. Furthermore, Woori Bank has expanded the scope of its operations in Myanmar, Indonesia, Cambodia and the Philippines in order to capitalize on the potential for high growth and profitability in Southeast Asia and established a representative office in Poland as well as additional branches in India. In June 2018, Woori Bank acquired VisionFund (Cambodia) Ltd., a microfinance deposit-taking institution in Cambodia, and renamed it WB Finance Co., Ltd, and in November 2018, Woori Bank established a German subsidiary, Woori Bank Europe Gmbh, which is headquartered in Frankfurt. In February 2020, WB Finance Co., Ltd. merged with Woori Finance (Cambodia) Plc., a Cambodian microfinance institution, and in November 2021, it obtained a commercial banking license from the Cambodian financial authorities and began its nationwide operations as Woori Bank (Cambodia) PLC. Woori Bank has a presence in over 20 countries with over 460 branches and offices outside Korea. In 2016, Woori Card expanded overseas by establishing TuTu Finance-WCI Myanmar Co., Ltd., microfinance firm, in Myanmar. In August 2022, Woori Card acquired a 82.03% equity interest in PT Batavia Prosperindo Finance, Tbk, a consumer finance company in Indonesia, and renamed it to PT Woori Finance Indonesia, Tbk.

Develop and increase productivity of our professional workforce. We aim to retain the most qualified and highly-trained professionals in the market, and we intend to continue to focus on the development and training of our core professionals. In order to boost employee morale and productivity, we aim to create an environment that nurtures development and growth and accordingly have implemented performance-based incentive programs to recognize high performers on both an individual and business group level. In addition, a rigorous ethics management program and related measures have been instituted to reduce operational risk and help ensure compliance with our internal standards and policies.

# **Corporate Banking**

We provide commercial banking services to large corporate customers (including government-owned enterprises) and small- and medium-sized enterprises in Korea. Currently, our corporate banking operations consist mainly of lending to and taking deposits from our corporate customers. We also provide ancillary services on a fee basis, such as inter-account transfers, transfers of funds from branches and agencies of a company to its headquarters and transfers of funds from a company's customer accounts to the company's main account. We provide our corporate banking services predominantly through Woori Bank.

The following table sets forth the balances and percentages of our total lending and total deposits represented by our large corporate and small- and medium-sized enterprise customer loans and deposits, respectively, and the number of such customers as of the dates indicated:

	As of December 31,			
	2021		2022	
	Amount	% of Total	Amount	% of Total
	(in billions	of Won, e	xcept percenta	iges)
Loans <sup>(1)</sup> :				
Small- and medium-sized enterprise <sup>(2)</sup>	₩112,696	33.4%	₩122,925	35.6%
Large corporate <sup>(3)</sup>	37,268	11.0	34,519	10.0
Others <sup>(4)</sup>	29,753	8.8	33,657	9.7
Total	₩179,717	53.2%	₩191,101	55.3%
Deposits:				
Small- and medium-sized enterprise	₩ 65,975	20.8%	₩ 70,492	20.6%
Large corporate	103,846	32.7	108,536	31.7
Total	₩169,821	53.4%	₩179,028	52.3%
Number of borrowers:				
Small- and medium-sized enterprise	409,249		424,062	
Large corporate	2,386		2,493	

A = -6 D = ---- b == 21

Corporate loans we provide consist principally of the following:

- working capital loans, which are loans used for general working capital purposes, typically with a maturity of one year or less, including notes discounted and trade finance; and
- facilities loans, which are loans to finance the purchase of materials, equipment and facilities, typically with a maturity of three years or more.

On the deposit-taking side, we currently offer our corporate customers several types of corporate deposit products. These products can be divided into two general categories: demand deposits that have no restrictions on deposits or withdrawals, but which offer a relatively low interest rate; and time deposits from which withdrawals are restricted for a period of time, but offer higher interest rates. We also offer installment deposits, certificates of deposit and repurchase instruments. We offer varying interest rates on our deposit products depending upon the rate of return on our income-earning assets, average funding costs and interest rates offered by other nationwide commercial banks.

<sup>(1)</sup> Not including due from banks, other financial assets and outstanding credit card balances, and prior to deducting allowance for credit losses and present value discount or reflecting deferred origination costs.

Loans to "small- and medium-sized enterprises" as defined in the Framework Act on Small and Medium Enterprises of Korea and related regulations (and including project finance loans to such enterprises). See "—Small- and Medium-Sized Enterprise Banking."

<sup>(3)</sup> Loans to companies that are not "small- and medium-size enterprises" as defined in the Framework Act on Small and Medium Enterprises of Korea and related regulations, and typically including companies that have assets of \(\forall 12\) billion or more and are therefore subject to external audit under the Act on External Audit of Stock Companies. See "—Large Corporate Banking."

<sup>(4)</sup> Includes loans to governmental agencies, foreign loans and other corporate loans.

# Small- and Medium-Sized Enterprise Banking

We use the term "small- and medium-sized enterprises" as defined in the Framework Act on Small and Medium Enterprises of Korea and related regulations. Under the Framework Act on Small and Medium Enterprises of Korea and related regulations, in order to qualify as a small- and medium-sized enterprise, (i) the enterprise's total assets at the end of the immediately preceding fiscal year must be less than \text{\textbf{W}}500 billion, (ii) the enterprise must meet the average or annual sales revenue standards prescribed by the Enforcement Decree of the Framework Act on Small and Medium Enterprises that are applicable to the enterprise's primary business, and (iii) the enterprise must meet the standards of substantial management independence from ownership as prescribed by the Enforcement Decree of the Framework Act on Small and Medium Enterprises. However, pursuant to amendments to the Framework Act on Small and Medium Enterprises and its Enforcements Decree, which became effective in June 2020, an enterprise that qualifies as a small- and medium-sized enterprise pursuant to the above definition shall no longer be considered a small- and medium-sized enterprise if it is incorporated into, or is deemed to be incorporated into, a business group subject to certain disclosure requirements under the Monopoly Regulation and Fair Trade Act. Furthermore, certified social enterprises (as defined in the Social Enterprise Promotion Act of Korea), cooperatives, federations of cooperatives, social cooperatives and federations of social cooperatives, federations of heterogeneous cooperatives that consist of small- and medium-sized enterprises under the Framework Act on Small and Medium Enterprises (as defined in the Framework Act on Cooperatives), cooperatives, federations and national federations (as defined in the Consumer Cooperatives Act), as well as cooperatives, business cooperatives and federations of cooperatives (as defined in the Small and Medium Enterprise Cooperatives Act) that satisfy the requirements prescribed by the Framework Act on Small and Medium Enterprises, may also qualify as small- and medium-sized enterprises. The small- and medium-sized enterprise segment of the corporate banking market has grown significantly in recent years, including as a result of government measures to encourage lending to these enterprises. As of December 31, 2022, 19.7% of our small- and medium-sized enterprise loans were extended to borrowers in the manufacturing industry, 16.4% were extended to borrowers in the retail and wholesale industries, and 7.4% were extended to borrowers in the hotel, leisure and transportation industries.

We service our small- and medium-sized enterprise customers primarily through Woori Bank's network of branches and small- and medium-sized enterprise relationship managers. As of December 31, 2022, Woori Bank had stationed one or more relationship managers at 582 branches, of which 421 were located in the Seoul metropolitan area. The relationship managers specialize in servicing the banking needs of small- and medium-sized enterprise customers and concentrate their marketing efforts on developing new customers in this segment. As of December 31, 2022, Woori Bank had a total of 774 small- and medium-sized enterprise relationship managers stationed at its branches (as well as 500 non-stationed employees who serve as relationship managers as needed).

In addition to increasing our dedicated staffing and branches, our strategy for this banking segment is to identify promising industry sectors and to develop and market products and services targeted towards customers in these sectors. We have also developed in-house industry specialists who can help us identify leading small-and medium-sized enterprises in, and develop products and marketing strategies for, these targeted industries. In addition, we operate customer loyalty programs at Woori Bank for our most profitable small- and- medium-sized enterprise customers and provide them with benefits and services such as preferential rates, free seminars and workshops and complementary invitations to cultural events.

Lending Activities. We provide both working capital loans and facilities loans to our small- and medium-sized enterprise customers. As of December 31, 2022, working capital loans and facilities loans accounted for 42.2% and 53.6% respectively, of our total small- and medium-sized enterprise loans. As of December 31, 2022, we had 424,062 small- and medium-sized enterprise borrowers.

As of December 31, 2022, secured loans and loans guaranteed by a third party accounted for 80.4% and 5.6%, respectively, of our small- and medium-sized enterprise loans. As of December 31, 2022, approximately 74.2% of the secured loans were secured by real estate or movable property and 0.5% were secured by deposits. Working capital loans generally have a maturity of one year, but may be extended on an annual basis for an aggregate term of three to five years. Facilities loans have a maximum maturity of 15 years.

When evaluating the extension of working capital loans and facilities loans, we review the creditworthiness and capability to generate cash of the small- and medium-sized enterprise customer. Furthermore, we take corporate guarantees and credit guarantee letters from other financial institutions and use deposits that the borrower has with us or securities pledged to us as collateral.

The value of any collateral is defined using a formula that takes into account the appraised value of the property, any prior liens or other claims against the property and an adjustment factor based on a number of considerations including, with respect to property, the value of any nearby property sold in a court-supervised auction during the previous five years. We generally revalue any collateral on a periodic basis (every year for real estate (with apartments being revalued every month, subject to the availability of certain specified market value information), every year for equipment, every month for deposits and every week for stocks listed on a major Korean stock exchange) or if a trigger event occurs with respect to the loan in question.

Pricing. We establish the pricing for our small- and medium-sized enterprise loan products based principally on transaction risk, our cost of funding and market considerations. Our lending rates are generally determined using our Credit Wizard system. We use our Credit Wizard system to manage our lending activities, and input data gathered from loan application forms, credit scores of borrowers and the appraisal value of collateral provided by external valuation experts into the Credit Wizard system and update such information periodically to reflect changes in such information. See "Item 11. Quantitative and Qualitative Disclosures about Market Risk—Credit Risk Management—Credit Evaluation and Approval." We measure transaction risk using factors such as the credit rating assigned to a particular borrower and the value and type of collateral. Our system also takes into account cost factors such as the current market interest rate, opportunity cost and cost of capital, as well as a spread calculated to achieve a target rate of return. Depending on the price and other terms set by competing banks for similar borrowers, we may reduce the interest rate we charge to compete more effectively with other banks. Loan officers have limited discretion in deciding what interest rates to offer, and significant variations require review at higher levels. As of December 31, 2022, approximately 73.5% of our small- and medium-sized enterprise loans had interest rates that varied with reference to current market interest rates.

### Large Corporate Banking

Our large corporate customers consist of companies that are not "small- and medium-size enterprises" as defined in the Framework Act on Small and Medium Enterprises of Korea and related regulations, and typically include companies that have assets of \(\foldam{H}12\) billion or more and are therefore subject to external audit under the Act on External Audit of Stock Companies. As a result of our history and development, particularly the history of Woori Bank, we remain the main creditor bank to many of Korea's largest corporate borrowers.

In terms of our outstanding loan balance, as of December 31, 2022, 36.5% of our large corporate loans were extended to borrowers in the finance and insurance industries, 33.1% were extended to borrowers in the manufacturing industry, and 8.3% were extended to borrowers in the retail and wholesale industries.

We service our large corporate customers primarily through Woori Bank's network of dedicated corporate banking centers and general managers. Woori Bank operates 10 dedicated corporate banking centers, all of which are located in the Seoul metropolitan area. Each center is staffed with one or more general managers, and certain centers are headed by a senior general manager. Depending on the center, each such manager is responsible for large corporate customers that either are affiliates of a particular *chaebol* or operate in a particular industry or region. As of December 31, 2022, Woori Bank had a total of 86 general managers who focus on marketing to and managing the accounts of large corporate customers.

Our strategy for the large corporate banking segment is to develop new products and cross-sell our existing products and services to our core base of large corporate customers. In particular, we continue to focus on marketing fee-based products and services such as foreign exchange and trade finance services, derivatives and other risk hedging products, investment banking services and advisory services. We have also been reviewing the credit and risk profiles of our existing customers as well as those of our competitors, with a view to identifying a target group of high-quality customers on whom we can concentrate our marketing efforts. In addition, we are seeking to continue to increase the *chaebol*-, region- and industry-based specialization of the managers at our

dedicated corporate banking centers, including through the operation of a knowledge management database that allows greater sharing of marketing techniques and skills.

Lending Activities. We provide both working capital loans and facilities loans to our large corporate customers. As of December 31, 2022, working capital loans (including domestic usance, bills bought and securities sold under repurchase agreements) and facilities loans accounted for 67.1% and 19.2% respectively, of our total large corporate loans.

Loans to large corporate customers may be secured by real estate or deposits or be unsecured. As of December 31, 2022, secured loans and loans guaranteed by a third party accounted for 21.1% and 4.3% respectively, of our large corporate loans. Since a relatively low percentage of our large corporate loan portfolio is secured by collateral, we may be required to establish larger allowances for credit losses with respect to any such loans that become non-performing or impaired. See "—Assets and Liabilities—Asset Quality of Loans—Loan Loss Provisioning Policy." As of December 31, 2022, approximately 65.0% of the secured loans were secured by real estate and approximately 2.8% were secured by deposits. Working capital loans generally have a maturity of one year but may be extended on an annual basis for an aggregate term of three to five years. Facilities loans have a maximum maturity of 15 years.

We evaluate creditworthiness and collateral for our loans to large corporate customers in essentially the same way as we do for loans to small- and medium-sized enterprise customers. See "—Small- and Medium-Sized Enterprise Banking—Lending Activities."

*Pricing.* We determine the pricing of our loans to large corporate customers in the same way that we determine the pricing of our loans to small- and medium-sized enterprise customers. See "—Small- and Medium-Sized Enterprise Banking—Pricing." As of December 31, 2022, approximately 83.7% of these loans had interest rates that varied with reference to current market interest rates.

### **Consumer Banking**

We provide retail banking services to consumers in Korea. Our consumer banking operations consist mainly of lending to and taking deposits from our retail customers. We also provide ancillary services on a fee basis, such as wire transfers. While we have historically attracted and held large amounts of consumer deposits through our extensive branch network, our substantial consumer lending growth occurred principally in recent years, in line with the increase in the overall level of consumer debt in Korea. We provide our consumer banking services primarily through Woori Bank. See "—Branch Network and Other Distribution Channels."

We classify our consumer banking customers based on their individual net worth and contribution to our consumer banking operations into four groups: high net worth; mass affluent; middle class; and mass market. We differentiate our products, services and service delivery channels with respect to these segments and target our marketing and cross-selling efforts based on this segmentation. With respect to the high net worth and mass affluent segments, we have established private banking operations to better service customers in these segments. See "—Private Banking Operations." With respect to the middle class segment, we seek to use our branch-level sales staff to maximize the overall volume of products and services we provide. With respect to the mass market segment, we have focused on increasing our operating efficiency by encouraging customers to migrate to low-cost alternative service delivery channels, such as the Internet, call centers, mobile banking and ATMs.

# **Lending Activities**

We offer a variety of consumer loan products to households and individuals. We differentiate our product offerings based on a number of factors, including the customer's age group, the purpose for which the loan is used, collateral requirements and maturity. The following table sets forth the balances and percentage of our total lending represented by our consumer loans as of the dates indicated:

	As of December 31,				
	2021		2022		
	Amount(1)	% of Total Loans <sup>(2)</sup>	Amount(1)	% of Total Loans <sup>(2)</sup>	
	(in billions of Won, except percentage)				
General purpose household loans	₩ 46,584	13.8%	₩ 43,614	12.6%	
Mortgage loans	69,902	20.7	69,299	20.1	
Home equity loans	31,875	9.4	31,027	9.0	
Total	₩148,361	43.9%	₩143,940	41.7%	

<sup>(1)</sup> Not including outstanding credit card balances, and prior to deducting allowance for credit losses and present value discount or reflecting deferred origination costs.

### Our consumer loans consist of:

- *general purpose household loans*, which are loans made to customers for any purpose (other than mortgage and home equity loans), and include overdraft loans, which are loans extended to customers to cover insufficient funds when they withdraw funds from their demand deposit accounts with us in excess of the amount in such accounts up to a limit established by us; and
- mortgage loans, which are loans made to customers to finance home purchases, construction, improvements or rentals, and home equity loans, which are loans made to customers secured by their homes to ensure loan repayment.

For secured loans, including mortgage and home equity loans, we generally lend up to 70% of the collateral value (except in certain regulated areas designated by the government where we generally limit our lending to 50% of the appraised value of collateral, and for first-time homebuyers, we may lend up to 80% of the appraised value of collateral) minus the value of any lien or other security interest that is prior to our security interest. In calculating the collateral value for real estate for such secured consumer loans (which principally consists of residential properties), we generally use the fair value of the collateral as appraised by KB Land, the Korea Real Estate Board or other external appraisal experts, which is collated in our Credit Wizard system. We generally revalue collateral on a periodic basis. As of December 31, 2022, the revaluation frequency was every year for real estate (with apartments being revalued every month, subject to the availability of certain specified market value information), every year for equipment, every month for deposits and every week for stocks listed on a major Korean stock exchange.

A borrower's eligibility for general purpose household loans is primarily determined by such borrower's creditworthiness. In reviewing a potential borrower's loan application, we also consider the suitability of the borrower's proposed use of funds, as well as the borrower's ability to provide a first-priority mortgage. A borrower's eligibility for a home equity loan is primarily determined by such borrower's creditworthiness (including as determined by our internal credit scoring protocols) and the value of the collateral property, as well as any third party guarantees of the borrowed amounts.

We also offer a variety of collective housing loans, including loans to purchase property or finance the construction of housing units, loans to contractors to be used for working capital purposes, and loans to educational institutions and non-profit entities to finance the construction of dormitories. Collective housing loans subject us to the risk that the housing units will not be sold. As a result, we review the probability of the sale of the housing unit when evaluating the extension of a loan. We also review the borrower's creditworthiness

<sup>(2)</sup> Total loans do not include other financial assets and are before the deduction of allowance for credit losses and present value discount and the reflection of deferred origination costs.

and the suitability of the borrower's proposed use of funds. Furthermore, we take a lien on the land on which the housing unit is to be constructed as collateral. If the collateral is not sufficient to cover the loan, we also take a guarantee from the Housing Finance Credit Guarantee Fund as security.

# General Purpose Household Loans

Our general purpose household loans may be secured by real estate (other than homes), deposits or securities. As of December 31, 2022, approximately \(\foldagge 25,840\) billion, or 59.2%, of our general purpose household loans were unsecured, although some of these loans were guaranteed by a third party. Overdraft loans are primarily unsecured and typically have a maturity between one and three years.

*Pricing*. The interest rates on our general purpose household loans are either a periodic floating rate (which is based on a base rate determined for three-month, six-month or twelve-month periods, further adjusted to account for the borrower's credit score and our opportunity cost) or a fixed rate that reflects our internal cost of funding and similar adjustments, but taking into account interest rate risks.

Our interest rates also incorporate a margin based on, among other things, the type of collateral (if any), priority with respect to any security, our target loan-to-value ratio and loan duration. We also can adjust the applicable rate based on current or expected profit contribution of the customer. Our lending rates are generally determined by our Credit Wizard system. The applicable interest rate is determined at the time of the drawdown of the loan. We also charge a termination fee in the event a borrower repays the loan prior to maturity. As of December 31, 2022, approximately 65.5% of our general purpose household loans had floating interest rates.

# Mortgage and Home Equity Lending

We provide customers with a number of mortgage and home equity loan products that have flexible features, including terms, repayment schedules, amounts and eligibility for loans. The maximum term of our mortgage and home equity loans is typically 40 years. Most of our mortgage and home equity loans provided prior to January 2016 have an interest-only payment period of 10 years or less. However, the Korea Federation of Banks' implementation of its Guidelines on Banks' Mortgage Loan Screening changed the default interest-only payment period to one year or less, which applies to loans that were originated subsequent to the effective date of the Guidelines in January 2016. With respect to mortgage and home equity loans, we determine the eligibility of borrowers based on the borrower's personal information, transaction history and credit history using our Credit Wizard system. See "Item 11. Quantitative and Qualitative Disclosures about Market Risk—Credit Risk Management—Credit Evaluation and Approval." The eligibility of a borrower that is participating in a housing lottery will depend on proof that it has paid a deposit or can obtain a guarantee from a Korean government-related housing fund.

As of December 31, 2022, approximately 60.1% of our mortgage and home equity loans were secured by residential or other property, 28.5% of our mortgage and home equity loans were guaranteed by Korean government-related housing funds and 2.8% of our mortgage and home equity loans, contrary to general practices in the United States, were unsecured (although the use of proceeds from mortgage and home equity loans is restricted for the purpose of financing home purchases and some of these loans were guaranteed by a third party). One reason that a portion of our mortgage and home equity loans are unsecured is that we, along with other Korean banks, provide advance loans to borrowers for the down payment of new housing (particularly apartments) that is in the process of being built. Once construction is completed, which may take several years, these mortgage and home equity loans become secured by the new housing purchased by these borrowers. As of December 31, 2022, we had issued unsecured construction loans relating to housing where construction was not completed in the amount of \(\forall 2,853\) billion. For the year ended December 31, 2022, the average initial loan-to-value ratio of our mortgage loans and home equity loans was approximately 59.8% and 45.2% respectively, compared to 53.8% and 32.4% for the year ended December 31, 2021. The average loan-to-value ratio of our mortgage loans and home equity loans as of December 31, 2022 was approximately 43.4% and 35.3% respectively, compared to 41.7% and 33.1% as of December 31, 2021.

*Pricing*. The interest rates for our mortgage and home equity loans are determined on essentially the same basis as our general purpose household loans, except that for mortgage and home equity loans we place

significantly greater weight on the value of any collateral that is being provided to secure the loan. The base rate we use in determining the interest rate for our mortgage and home equity loans is identical to the base rate we use to determine pricing for our general purpose household loans. As of December 31, 2022, approximately 68.2% of our outstanding mortgage and home equity loans had floating interest rates.

# **Private Banking Operations**

Our private banking operations within Woori Bank aim to service our high net worth and mass affluent retail customers. As of December 31, 2022, we had 268.118 customers who qualified for private banking services, representing 1.1% of our total retail customer base. Of the total deposits of our retail unit of \(\frac{\pmathbf{W}}{124.8}\) trillion as of December 31, 2022, high net worth and mass affluent customers accounted for 64.2%.

Through our private bankers, we provide financial and real estate advisory services to our high net worth and mass affluent customers. We also market differentiated investment and banking products and services to these segments, including beneficiary certificates, overseas mutual fund products, specialized bank accounts and credit cards. In addition, we have developed a customer loyalty program for our private banking customers that provides preferential rate and fee benefits and awards. We have also segmented our private banking operations by introducing exclusive private client services for high net worth customers who individually maintain a deposit balance of at least \(\forall 100\) million. We believe that our private banking operations will allow us to increase our revenues from our existing high net worth and mass affluent customers, as well as attract new customers in these segments.

Woori Bank has 592 branches that offer private banking services. These branches are staffed by 650 private bankers, and almost all of the branches are located in metropolitan areas, including Seoul.

Woori Bank also operates an advisory center in Seoul for its private banking clients, which employs 21 specialists advising on matters of law, tax, real estate, risk assessment and investments.

#### **Deposit-Taking Activities**

We are one of the largest deposit holders among Korean banks, in large part due to our nationwide branch network. The balance of our deposits from retail customers was \\ \pm\$120,520 billion as of December 31, 2021 and \\ \pm\$132,916 billion as of December 31, 2022, which constituted 37.9% and 38.8%, respectively, of the balance of our total deposits.

We offer diversified deposit products that target different customers with different needs and characteristics. These deposit products fall into five general categories:

- demand deposits, which either do not accrue interest or accrue interest at a lower rate than time, installment or savings deposits. The customer may deposit and withdraw funds at any time and, if the deposits are interest-bearing, they accrue interest at a fixed or variable rate depending on the period and/ or amount of deposit;
- *time deposits*, which generally require a customer to maintain a deposit for a fixed term during which interest accrues at a fixed or floating rate. Early withdrawals require penalty payments. The term for time deposits typically ranges from one month to five years;
- *savings deposits*, which allow the customer to deposit and withdraw funds at any time and accrue interest at a fixed rate set by us depending upon the period and amount of deposit;
- certificates of deposit, the maturities of which range from 30 days to five years, with a required minimum deposit of \( \foat{\text{W}} 10 \) million. Interest rates on certificates of deposit vary with the length of deposit and prevailing market rates. Certificates of deposit may be sold at face value or at a discount with the face amount payable at maturity; and
- *other deposits*, which consist mainly of deposits for notes payable, trust accounts, deposits for cash management accounts, housing installments and mutual installments.

The following table sets forth the percentage of our total retail and corporate deposits represented by each deposit product category as of December 31, 2022:

Demand Deposits	Time Deposits	Savings Deposits	Certificates of Deposit	Other Deposits
11.75%	53.20%	32.07%	1.54%	1.44%

We offer varying interest rates on our deposit products depending on market interest rates as reflected in average funding costs, the rate of return on our interest-earning assets and the interest rates offered by other commercial banks. Generally, the interest payable is the highest on certificate of deposit accounts and decreases with other deposits and time deposits and savings deposit accounts receiving relatively less interest, and demand deposits accruing little or no interest.

We also offer deposits in foreign currencies and a specialized deposit product, the apartment application comprehensive deposit, which is a monthly installment comprehensive savings program providing the holder with a preferential right to subscribe for new national housing units constructed under the Housing Act or new privately constructed housing units. This deposit product requires monthly installments of \(\forall 20,000\) to \(\forall 500,000\), terminates when the holder is selected as a subscriber for a housing unit and accrues interest at variable rates depending on the term.

The Monetary Policy Board of the Bank of Korea imposes a reserve requirement on Won currency deposits of commercial banks based generally on the type of deposit instrument. The minimum reserve requirement ratio for certain types of deposit instruments, such as time deposits, periodic deposits and certificates of deposit, is 2% of the average balance of Won currency demand deposits outstanding while the minimum reserve requirement ratio for other types of deposit instrument is 7% of the average balance of Won currency demand deposits outstanding. See "—Supervision and Regulation—Principal Regulations Applicable to Banks—Liquidity." Ongoing regulatory reforms have removed all controls on lending rates and deposit rates (except for the prohibition on interest payments on current account deposits).

The Depositor Protection Act provides for a deposit insurance system where the KDIC guarantees to depositors the repayment of their eligible bank deposits. The KDIC insures a maximum of \$50 million per individual for deposits and interest in a single financial institution, regardless of when the deposits were made or the size of the deposits. See "—Supervision and Regulation—Principal Regulations Applicable to Banks—Deposit Insurance System." We pay a quarterly premium of 0.02% of our average deposits and a quarterly special contribution of 0.025% of our average deposits, in each case for the relevant quarter. For the year ended December 31, 2022, we paid an aggregate of \$424 billion of such premiums and contributions.

# Branch Network and Other Distribution Channels

Woori Bank had a total of 713 banking branches in Korea as of December 31, 2022, which was one of the most extensive networks of branches among Korean commercial banks. In recent years, demand in Korea for mutual funds and other asset management products as well as bancassurance products has been rising. These products require an extensive sales force and customer interaction to sell, further emphasizing the need for a large branch network. As a result, an extensive branch network is important to attracting and maintaining retail customers, as they generally conduct a significant portion of their financial transactions through bank branches. We believe that our extensive branch network in Korea helps us to maintain our retail customer base, which in turn provides us with a stable and relatively low cost funding source.

The following table presents the geographical distribution of Woori Bank's banking branch network in Korea as of December 31, 2022:

	Total	
	Number	% of Total
Area		
Seoul	310	43.5%
Six largest cities (other than Seoul)	130	18.2%
Other	273	38.3%
Total	713	100.0%

In order to maximize access to our products and services, we have established an extensive network of ATMs and cash dispensers, which are located in branches as well as unmanned outlets. Woori Bank had 3,950 ATMs and cash dispensers as of December 31, 2022.

We actively promote the use of alternative service delivery channels in order to provide convenient service to customers. We also benefit from customers' increasing use of these channels, as they allow us to maximize the marketing and sales functions at the branch level, reduce employee costs and improve profitability. The following tables set forth information, for the periods indicated, relating to the number of transactions and the fee revenue of our alternative service delivery channels with respect to Woori Bank.

	For the year ended December 31,					
		2020		2021		2022
ATMs <sup>(1)</sup> :						
Number of transactions (millions)		213		182		162
Fee income (billions of Won)	₩	25	₩	22	₩	20
Telephone banking:						
Number of users		6,315,007		6,298,041		6,279,122
Number of transactions (millions)		126		108		87
Fee income (billions of Won)	₩	0.9	₩	0.9	₩	0.6
Internet banking:						
Number of users	1	8,545,393	1	9,187,033	1	9,961,881
Number of transactions (millions)		17,082		19,047		18,097
Fee income (billions of Won)	₩	191	₩	210	₩	213

<sup>(1)</sup> Includes cash dispensers.

Most of our electronic banking transactions do not generate fee income as many of those transactions are free of charge, such as balance inquiries, consultations with customer representatives or transfers of money. This is particularly true for telephone banking services, where a majority of the transactions are balance inquiries or consultations with customer representatives, although other services such as money transfers are also available.

Our automated telephone banking system offers a variety of services, including inter-account fund transfers, balance and transaction inquiries and customer service inquiries. We also operate a call center that handles calls from customers, engages in telemarketing and assists in our collection efforts.

Our Internet banking services include balance and transaction inquiries, money transfers, loan applications, bill payment and foreign exchange transactions. We seek to maintain and increase our Internet banking customer base by focusing largely on our younger customers and those that are able to access the Internet easily (such as office workers) as well as by developing additional Internet-based financial services and products. We also develop new products to target different types of customers with respect to our Internet banking services, and have developed a service that enables private banking customers to access their accounts on a website that provides specialized investment advice. We also offer online escrow services.

In addition, we provide mobile banking services to our customers, which is available to all our Internet-registered users. These services allow our customers to complete selected banking transactions through major Korean telecommunications networks using their smart phones or other mobile devices. We provide general mobile banking services through our Woori WON Banking mobile application and are expanding our mobile banking services to Southeast Asia.

We also offer our "Win-CMS" service to corporate customers of Woori Bank, which provides an integrated electronic cash management system and in-house banking platform for such customers.

### **Credit Cards**

We offer credit card products and services mainly to consumers and corporate customers in Korea. In April 2013, as a part of our strategy to enhance our credit card operations and increase its synergies with our other businesses, Woori Bank effected a horizontal spin-off of its credit card business, and the former credit card business of Woori Bank was operated by its wholly-owned subsidiary, Woori Card, until September 2019, when we conducted a "comprehensive stock exchange" under Korean law with Woori Bank, pursuant to which Woori Card became our direct and wholly-owned subsidiary. See "Item 4.A. History and Development of the Company—Establishment of Woori Financial Group—Reorganization and Expansion of Woori Financial Group."

As of December 31, 2022, Woori Card's market share based on transaction volume was approximately 8.1%, which ranked Woori Card as the sixth largest credit card issuer in Korea, according to the Financial Statistics Information System, which is maintained by the Financial Supervisory Service.

Our credit card operations benefit from Woori Card's ownership of a 7.65% equity stake in BC Card. BC Card is co-owned by KT Corporation, which is one of Korea's largest telecommunications companies, and other Korean financial institutions, and operates the second largest merchant payment network in Korea as measured by transaction volume. This ownership stake allows us to outsource production and delivery of new credit cards, the preparation of monthly statements, management of merchants and other ancillary services to BC Card for our credit card operations. In addition, in October 2019, Woori Bank acquired a 20% equity interest in Lotte Card Co., Ltd., which was the fifth largest credit card issuer in Korea at the time of acquisition, according to the Financial Statistics Information System, which is maintained by the Financial Supervisory Service.

# **Products and Services**

We currently have the following principal brands of credit cards outstanding:

- a "Woori" brand:
- · a "BC Card" brand; and
- a "Visa" brand.

We issue "Visa" brand cards under a non-exclusive license agreement with Visa International Service Association and also issue "MasterCard," "JCB", "Union Pay", and "Diners Club" brand cards under a non-exclusive, co-branding agreement with BC Card.

We offer a number of different services to holders of our credit cards. Generally, these services include:

- credit purchase services, which allow cardholders to purchase merchandise or services on credit and repay such credit on a lump-sum or installment basis;
- · cash advance services from ATMs and bank branches; and
- credit card loans, which are loans that cardholders can obtain based on streamlined application procedures.

Unlike in the United States and many other countries, where most credit cards are revolving cards that allow outstanding balances to be rolled over from month to month so long as a required minimum percentage is repaid, cardholders in Korea are generally required to pay for their non-installment purchases as well as cash advances within approximately 15 to 60 days of purchase or advance, depending on their payment cycle.

The following tables set forth certain data relating to the credit card operations of Woori Card (including BC Cards and Visa Cards issued through the BC Card consortium) as of the dates or for the periods indicated:

	As of or for t	he year ended D	ecember 31,
	2020	2021	2022
N. I. C. P. H. H. (4	(in billions of W	on, unless indica	ated otherwise)
Number of credit card holders (at year end) (thousands of holders)  General accounts	13,157	12,400	12,126
Corporate accounts	· · · · · · · · · · · · · · · · · · ·	549	582
Total		12,949	12,708
Active ratio <sup>(1)</sup>	56.53%	61.18%	62.94%
Credit card interest and fees	20.2270	0111070	02.5 1.76
Installment and cash advance interest	₩ 226	₩ 225	₩ 282
Annual membership fees		92	95
Merchant fees	888	958	1,009
Other fees	644	711	914
Total	₩ 1,848	₩ 1,986	₩ 2,299
Charge volumes			
General purchase	₩60,228	₩65,517	₩72,019
Installment purchase	10,225	11,765	10,111
Cash advance	4,314	4,884	5,791
Card loan	4,610	4,104	3,010
Total	₩79,377	₩86,270	₩90,931
Outstanding balances (at year end)			
General purchase	₩ 3,060	₩ 3,550	₩ 4,146
Installment purchase		2,589	2,955
Cash advance	483	674	636
Card loan		2,964	2,662
Total	₩ 8,562	₩ 9,776	₩10,398
Average outstanding balances		:	
General purchase	₩ 3,199	₩ 3,439	₩ 3,953
Installment purchase	1.934	2.303	2.780
Cash advance	523	552	693
Card loan		3,272	2,976
Total	₩ 8,517	₩ 9.567	₩10.403
		=======================================	W 10,403
Delinquency ratios <sup>(2)</sup>	0.05	0.74	1.20
Less than 1 month		0.74	1.29
From 1 month to 3 months	0.51	0.49	0.78
From 3 months to 6 months	0.51	0.32	0.59
Over 6 months	0.00	0.00	0.01
Total	1.88%	1.55%	2.67%
Non-performing loan ratio <sup>(3)</sup>	0.71%	0.49%	0.84%
Gross charge-offs	₩ 246	₩ 220	₩ 220
Recoveries	65	65	53
Net charge-offs	₩ 181	₩ 155	₩ 167
Gross charge-off ratio <sup>(4)</sup>	2.89%	2.30%	2.12%
Net charge-off ratio <sup>(5)</sup>	2.13%	1.62%	1.60%
rict charge-on rano	2.1370	1.0270	1.0070

<sup>(1)</sup> Represents the ratio of accounts used at least once within the past month to total accounts as of the end of the relevant year.

Our delinquency ratios may not fully reflect all delinquent amounts relating to our outstanding balances since a certain portion of delinquent credit card balances (defined as balances one day or more past due) were restructured into loans and were not treated as being delinquent at the time of conversion or for a period of time thereafter. Including all restructured loans, outstanding balances overdue by more than one month accounted for 2.6% of our credit card balances as of December 31, 2022.

(3) Represents the ratio of balances that are more than three months overdue to total outstanding balances as of the end of the relevant year. These ratios do not include the following amounts of previously delinquent credit card balances restructured into loans that were classified as normal or precautionary as of December 31, 2020, 2021 and 2022:

	As of December 31,		
	2020	2021	2022
	(in	billions of W	on)
Restructured loans	₩123	₩82	₩124

- (4) Represents the ratio of gross charge-offs for the year to average outstanding balances for the year. Our charge-off policy is to charge off balances which are more than six months past due (including previously delinquent credit card balances restructured into loans that are more than six months overdue from the point at which the relevant balances were so restructured), except for those balances with a reasonable probability of recovery.
- (5) Represents the ratio of net charge-offs for the year to average outstanding balances for the year.

We offer a diverse range of credit card products within our various brands. Factors that determine which type of card a particular cardholder may receive include net worth, age, location, income level and the particular programs or services that may be associated with a particular card. Targeted products that we offer include:

- cards that offer additional benefits, such as frequent flyer miles and award program points that can be redeemed for services, products or cash;
- gold cards, platinum cards and other preferential members' cards that have higher credit limits and provide additional services;
- corporate and affinity cards that are issued to employees or members of particular companies or organizations; and
- revolving credit cards and cards that offer travel services and insurance.

In recent years, credit card issuers in Korea have agreed with selected cardholders to restructure their delinquent credit card account balances as loans that have more gradual repayment terms, in order to retain fundamentally sound customers who are experiencing temporary financial difficulties and to increase the likelihood of eventual recovery on those balances. In line with industry practice, we have restructured a portion of our delinquent credit card account balances as loans. The general qualifications to restructure delinquent credit card balances as loans are that the delinquent amount be in excess of \textbf{\psi}1 million. The terms of the restructured loans usually require the payment of approximately 10% to 20% of the outstanding balance as a down payment and that they be guaranteed by a third party and carry higher interest rates than prevailing market rates. These loans are usually required to be repaid by the borrower in installments over terms ranging from three months to 60 months. As of December 31, 2022, the total amount of our restructured loans was \textbf{\psi}134 billion. Because restructured loans are not initially recorded as being delinquent, our delinquency ratios do not fully reflect all delinquent amounts relating to our outstanding credit card balances.

# Payments and Charges

Revenues from our credit card operations consist principally of cash advance charges, merchant fees, interest income from credit card loans, interest on late and deferred payments, and annual membership fees paid by cardholders.

Each cardholder is allocated an aggregate credit limit in respect of all cards issued under his or her account and each month. We advise each cardholder of the credit limit relating to the cards in his or her monthly billing statement. Credit limits in respect of card loans are established separately. We conduct ongoing monitoring of all cardholders and accounts, and may reduce the credit limit or cancel an existing cardholder's card based on current economic conditions, receipt of new negative credit data from third party sources or the cardholder's score under the credit risk management systems we use to monitor their behavior, even if the cardholder continues to make timely payments in respect of his or her cards. We consider an account delinquent if the payment due is not received on the first monthly payment date on which such payment was due, and late fees are immediately applied. Late fee charges and computation of the delinquency period are based on each outstanding

unpaid transaction or installment, as applicable. See "Item 11. Quantitative and Qualitative Disclosures about Market Risk—Credit Risk Management—Credit Review and Monitoring."

Payments on amounts outstanding on our credit cards must be made (at the cardholder's election at the time of purchase) either in full on each monthly payment date, in the case of lump-sum purchases, or in equal monthly installments over a fixed term from two months to 36 months, in the case of installment purchases. Cardholders may prepay installment purchases at any time without penalty. Payment for cash advances must be made on a lump sum basis. Payments for card loans must be made on an equal principal installment basis over a fixed term from three months up to a maximum of 60 months, up to a maximum loan amount of \(\formathbf{W}50\) million.

No interest is charged on lump-sum purchases that are paid in full by the monthly payment date. For installment purchases, we charge a fixed rate of interest on the outstanding balance of the transaction amount, based on the installment period selected at the time of purchase. For a new cardholder, we currently apply an interest rate between approximately 9.5% and 19.9% per annum as determined by the cardholder's application system score. See "Item 11. Quantitative and Qualitative Disclosures about Market Risk—Credit Risk Management—Credit Evaluation and Approval—Credit Card Approval Process" and "—Credit Review and Monitoring—Credit Card Review and Monitoring."

For cash advances, finance charges start accruing immediately following the cash withdrawal. We currently charge a periodic finance charge on the outstanding balance of cash advance of approximately 5.9% to 19.9% per annum. The periodic finance charge assessed on such balances is calculated by multiplying the daily installment balances for each day during the billing cycle by the applicable periodic finance charge rate, and aggregating the results for each day in the billing period. In addition to finance charges, cardholders using cash advance networks operated by companies that are not financial institutions (such as Hannet and NICE) are charged a minimum commission of \(\forall \)700 and a maximum of \(\forall 1,000\) per withdrawal.

We also generally charge a basic annual membership fee up to  $\mathbf{W}1,000,000$  for our credit cards, which is determined based on various factors including the type of card, and whether affiliation options are selected by the cardholder. For certain cards, such as the Nu Biz, we will waive membership fees if customers charge above a certain amount.

We outsource the management of merchants to BC Card. We charge merchant fees to merchants for processing transactions. Merchant fees vary depending on the type of merchant and the total transaction amounts generated by the merchant. As of December 31, 2022, we charged merchants an average of 1.23% of their respective total transaction amounts. In addition to merchant fees, we receive nominal interchange fees for international card transactions.

# **Capital Markets Activities**

We engage in capital markets activities for our own account and for our customers. Our capital markets activities include securities investment and trading, derivatives trading, asset securitization services and investment banking.

# Securities Investment and Trading

We invest in and trade securities for our own account, in order to maintain adequate sources of liquidity and to generate interest and dividend income and capital gains. As of December 31, 2022, our investment portfolio, which consists of financial assets at fair value through other comprehensive income and securities at amortized cost, and our trading portfolio, which consists of financial assets at fair value through profit or loss (excluding deposits, derivative assets and loans), had a combined total book value of \(\forall 72,031\) billion and represented 15.0% of our total assets.

Our trading and investment portfolios consist primarily of Korean treasury securities and debt securities issued by Korean government agencies, local governments or government-invested enterprises, and debt

securities issued by financial institutions. As of December 31, 2022, we held debt securities with a total book value of \$70.565 billion, of which:

- debt securities at fair value through other comprehensive income accounted for \(\fomathbf{W}\)32,146 billion, or 45.5%; and
- debt securities at fair value through profit or loss accounted for \(\mathbf{W}\)10,150 billion, or less than 14.4%.

Of these amounts, as of December 31, 2022, debt securities issued by the Korean government amounted to \$10,082 billion, or 35.7% of our debt securities at amortized cost, \$5,488 billion, or 17.1% of our debt securities at fair value through other comprehensive income, and \$2,754 billion, or 27.1% of our debt securities at fair value through profit or loss.

From time to time, we also purchase and sell equity securities for our securities portfolios. Our equity securities consist primarily of equities listed on the KRX KOSPI Market or the KRX KOSDAQ Market. As of December 31, 2022:

- equity securities at fair value through other comprehensive income had a book value of \( \forall \) 939 billion, or 2.8% of our securities at fair value through other comprehensive income portfolio; and
- equity securities at fair value through profit or loss accounted for \\ \psi 527 \text{ billion, or 4.9\% of our securities at fair value through profit or loss portfolio.}

Funds that are not used for lending activities are used for investment and liquidity management purposes, including investment and trading in securities. See "—Assets and Liabilities—Securities Investment Portfolio."

For a discussion of our risk management policies with respect to our securities trading activities, see "Item 11. Quantitative and Qualitative Disclosures about Market Risk—Market Risk Management—Market Risk Management for Trading Activities."

# **Derivatives Trading**

We offer derivatives products and engage in derivatives trading, mostly for our corporate customers. Our trading volume for derivative products issued for trading and hedging purposes was \display353,659 billion in 2020, \display390,720 billion in 2021 and \display389,339 billion in 2022. Our aggregate net trading gain from derivatives issued for trading and hedging purposes for the years ended December 31, 2020, 2021 and 2022 was \display320 billion, \display323 billion, and \display545 billion, respectively.

We provide and trade a number of derivatives products principally through sales or brokerage accounts for our customers, including:

- interest rate swaps, options and futures, relating principally to Won interest rate risks;
- index futures and options, relating to stock market fluctuations;
- cross currency swaps, relating to foreign exchange risks, largely for Won against U.S. dollars; and
- foreign exchange forwards, swaps, options and futures, relating to foreign exchange risks.

Our derivatives operations focus on addressing the needs of our corporate clients to hedge their risk exposure and on hedging our risk exposure resulting from such client contracts. We also engage in derivatives trading activities to hedge the interest rate and foreign currency risk exposure that arises from our own assets and liability positions. In addition, we engage in proprietary trading of derivatives, such as index options and futures within our regulated open position limits, for the purpose of generating capital gains.

The following shows the estimated fair value of derivatives we held or had issued for trading purposes as of the dates indicated:

	As of December 31,			
	2021		2022	
	Estimated Fair Value of Assets	Estimated Fair Value of Liabilities	Estimated Fair Value of Assets	Estimated Fair Value of Liabilities
	(in billions of Won)			
Currency derivatives	₩3,922	₩3,348	₩6,212	₩6,869
Interest rate derivatives	157	314	699	491
Equity derivatives	724	905	1,295	1,545
Total	₩4,803	₩4,567	₩8,206	₩8,905

For a discussion of our risk management policies with respect to our derivatives trading activities, see "Item 11. Quantitative and Qualitative Disclosures about Market Risk—Market Risk Management—Market Risk Management for Trading Activities."

#### Asset Securitization Services

We are active in the Korean asset-backed securities market. Through Woori Bank, we participate in asset securitization transactions in Korea by acting as arranger, trustee or liquidity provider. In 2022, we were involved in asset securitization transactions with an initial aggregate issue amount of \(\pm\)718 billion and generated total fee income of approximately \(\pm\)1.4 billion in connection with such transactions. The securities issued in asset securitization transactions are sold mainly to institutional investors buying through Korean securities firms.

## **Investment Banking**

Through Woori Bank and Woori Investment Bank, we engage in investment banking activities in Korea. In addition, we provide project finance and financial advisory services, in the area of social overhead capital projects such as highway, port, power and water and sewage projects, as well as structured finance, leveraged buy-out financing, equity and venture financing and mergers and acquisitions financing services. In 2022, the net non-interest income from Woori Bank's investment banking activities (including its Hong Kong subsidiary's investment banking activities) was approximately \(\forall \pm 406.4\) billion, while the net non-interest income from Woori Investment banking activities was approximately \(\forall \pm 78.8\) billion.

We believe that significant opportunities exist for us to leverage our existing base of large corporate and small- and medium-sized banking customers to cross-sell investment banking services. We intend to expand our investment banking operations to take advantage of these opportunities, with a view to increasing our fee income and further diversifying our revenue base.

# **International Banking**

Through Woori Bank, we engage in various international banking activities, including foreign exchange services and dealing, import and export-related services, offshore lending, syndicated loans and foreign currency securities investment. These services are provided primarily to our domestic customers and overseas subsidiaries and affiliates of Korean corporations and, to a limited extent, to local companies and individuals. We also raise foreign currency funding through our international banking operations. In addition, we provide commercial banking services to retail and corporate customers in select overseas markets.

The table below sets forth certain information regarding our foreign currency assets and borrowings:

As of December 31,	
2021	2022
(in millions of US\$)	
US\$ 51,680	US\$ 53,873
268	316
4,234	4,295
6,965	9,611
US\$ 11,467	US\$ 14,222
	2021 (in million US\$ 51,680 268 4,234

The table below sets forth the overseas subsidiaries and direct branches of Woori Bank in operation as of December 31, 2022:

Business Unit <sup>(1)</sup>	Location
Subsidiaries:	
Woori America Bank	United States
Woori Bank China Limited	China
PT Bank Woori Saudara Indonesia 1906 Tbk	Indonesia
AO Woori Bank	Russia
Banco Woori Bank do Brasil S.A.	Brazil
Woori Global Markets Asia Limited	China (Hong Kong)
Woori Bank Vietnam Limited	Vietnam
Wealth Development Bank	Philippines
Woori Finance Myanmar Co., Ltd	Myanmar
Woori Bank (Cambodia) PLC.	Cambodia
Woori Bank Europe Gmbh	Germany
Branches, Agencies and Representative Offices:	
London Branch	United Kingdom
Tokyo Branch	Japan
Singapore Branch	Singapore
Hong Kong Branch	China (Hong Kong)
Bahrain Branch	Bahrain
Dhaka Branch	Bangladesh
Gaeseong Branch <sup>(2)</sup>	Korea
New York Agency	United States
Los Angeles Branch	United States
Chennai Branch	India
Sydney Branch	Australia
Dubai Branch	United Arab Emirates
Gurgaon Branch	India
Mumbai Branch	India
Kuala Lumpur Representative Office	Malaysia
Yangon Representative Office	Myanmar
Iran Representative Office <sup>(3)</sup>	Iran
Katowice Representative Office	Poland

<sup>(1)</sup> Does not include subsidiaries and branches in liquidation or dissolution.

Due to the shutdown of the Gaeseong Industrial Complex in February 2016, the Gaeseong Branch is currently located at our corporate headquarters in Seoul.

No longer operational (i.e., no employees or office space) since December 2018 following the re-imposition of sanctions.

The principal activities of the overseas branches and subsidiaries of Woori Bank are providing trade financing and local currency funding for Korean companies and Korean nationals operating in overseas markets as well as servicing local customers and providing foreign exchange services in conjunction with our headquarters. On a limited basis, such overseas branches and subsidiaries also engage in the investment and trading of securities of foreign issuers.

Woori America Bank currently operates over 25 branches in states including New York, New Jersey, Maryland, Virginia, Pennsylvania and California and provides retail and corporate banking services targeted towards the Korean-American community. As of December 31, 2022, Woori America Bank had total assets of US\$3,111 million and shareholders' equity of US\$440 million.

In November 2007, Woori Bank established a local subsidiary in China, Woori Bank China Limited, which currently has branches in Beijing, Shanghai, Shenzhen, Suzhou, Tianjin, Dalian, Chengdu, Weihai, Chongqing and Shenyang. Woori Bank also established a local subsidiary in Russia, AO Woori Bank, in January 2008 to provide general banking services and it currently has branches in Moscow and St. Petersburg and a representative office in Vladivostok. As of December 31, 2022, AO Woori Bank had total assets of US\$620 million and total liability of US\$558 million, and its operating revenue was US\$62 million in 2022.

In January 2014, Woori Bank completed the purchase of an additional 27% equity interest (in addition to the 6% equity interest it previously acquired through its subsidiary PT. Bank Woori Indonesia) in PT. Bank Himpunan Saudara 1906 Tbk, an Indonesian commercial bank with a network of over 100 branches and offices throughout Indonesia. In December 2014, PT. Bank Woori Indonesia merged with and into PT. Bank Himpunan Saudara 1906 Tbk. The merged entity, in which Woori Bank currently holds an 84.2% equity interest, was renamed PT Bank Woori Saudara Indonesia 1906 Tbk and became Woori Bank's consolidated subsidiary. As of December 31, 2022, PT Bank Woori Saudara Indonesia 1906 Tbk had total assets of US\$3,330 million and shareholders' equity of US\$624 million.

In October 2016, Woori Bank acquired a 51% equity interest in Wealth Development Bank, a thrift bank in the Philippines with a network of 25 branches and 438 employees as of December 31, 2022.

In November 2016, Woori Bank obtained a banking license to establish a local subsidiary in Vietnam, Woori Bank Vietnam, which commenced operations in January 2017 and currently operates 20 branches throughout the country.

Woori Bank is also expanding its network of branches in South and Southeast Asia through our other local subsidiaries, including PT Bank Woori Saudara Indonesia 1906, Tbk, Woori Finance Myanmar and Wealth Development Bank. In June 2018, Woori Bank acquired VisionFund (Cambodia) Ltd., a microfinance deposit-taking institution in Cambodia, and renamed it WB Finance Co., Ltd. In February 2020, WB Finance Co., Ltd. merged with Woori Finance (Cambodia) Plc., a Cambodian microfinance institution, and in November 2021, it obtained a commercial banking license from the Cambodian financial authorities and began its nationwide operations as Woori Bank (Cambodia) PLC. As of December 31, 2022, Woori Bank (Cambodia) PLC. had total assets of US\$1,451 million and shareholders' equity of US\$318 million.

In November 2018, Woori Bank established a German subsidiary, Woori Bank Europe Gmbh, which is headquartered in Frankfurt and conducts our European operations. As of December 31, 2022, Woori Bank Europe Gmbh had total assets of US\$697 million and shareholders' equity of US\$90 million.

## **Asset Management**

# **Trust Management Services**

Money Trusts. Through Woori Bank, we offer money trust products to our customers and manage the funds they invest in money trusts. The money trusts we manage are generally trusts with a fixed life that allow investors to share in the investment performance of the trust in proportion to the amount of their investment in the trust. We principally offer the following types of money trust products:

- retirement trusts, which invest funds received from corporations or organizations and manage these funds until they are withdrawn to pay retirement funds to a corporation's officers or employees or an organization's members;
- *pension trusts*, which invest funds received until pension benefits are due to be disbursed to a pension beneficiary; and
- *specified money trusts*, which invest cash received as trust property at the direction of the trustors and, once the trust matures, disburse the principal and any gains to the trust beneficiaries.

We also offer other types of money trusts that have a variety of differing characteristics with respect to, for example, maturities and tax treatment.

Under Korean law, the assets of our money trusts are segregated from our assets and are not available to satisfy the claims of our creditors. We are, however, permitted to maintain deposits of surplus funds generated by trust assets in certain circumstances as set forth under the Financial Investment Services and Capital Markets Act and the regulations thereunder. Except for specified money trusts, we have investment discretion over all money trusts, which are pooled and managed jointly for each type of trust. Specified money trusts are established on behalf of individual customers, typically corporations, which direct our investment of trust assets.

We receive fees for our trust management services that are generally based upon a percentage, ranging between 0.01% and 1.2%, of the net asset value of the assets under management. We also receive penalty payments when customers terminate their trust deposit prior to the original contract maturity. Fees that we received for trust management services (including those fees related to property trust management services, described below, but excluding those fees relating to guaranteed trusts, which are eliminated in consolidation) amounted to \wideta{86} billion in 2020, \wideta{117} billion in 2021 and \wideta{132} billion in 2022.

For some of the money trusts we manage, we have guaranteed the principal amount of an investor's investment as well as a fixed rate of interest. We no longer offer new money trust products where we guarantee both the principal amount and a fixed rate of interest. We continue to offer pension-type money trusts that provide a guarantee of the principal amount of an investor's investment.

The following table shows the balances of our money trusts by type as of the dates indicated. We consolidate within our financial statements trust accounts for which we guarantee both the repayment of the principal amount and a fixed rate of interest and trust accounts for which we guarantee only the repayment of the principal amount, while we do not consolidate performance trusts on which we do not guarantee principal or interest:

As of Docombon 21

	As of Dec	ember 51,
	2021	2022
	(in billion	s of Won)
Principal and interest guaranteed trusts	₩ —	₩ —
Principal guaranteed trusts	1,275	1,186
Performance trusts	42,249	44,431
Total	₩43,524	₩45,617

The trust assets we manage consist principally of investment securities, loans made from the trusts and amounts due from banks. The investment securities consist of government-related debt securities, corporate debt securities, including bonds and commercial paper, equity securities and other securities. As of December 31,

2022, our money trusts had invested in securities with an aggregate book value of \(\formall11,610 billion, which accounted for approximately 24.9% of our money trust assets. Debt securities accounted for \(\formall5,372 billion of this amount.

Our money trusts also invest, to a lesser extent, in equity securities, including beneficiary certificates issued by investment trust management companies. As of December 31, 2022, equity securities held by our money trusts amounted to  $\mbox{W}6,239$  billion, which accounted for approximately 13.4% of our money trust assets. Of this amount,  $\mbox{W}14$  billion was from money trusts over which we had investment discretion and the remainder was from specified money trusts.

Loans made by our money trusts are similar in type to the loans made by our banking operations. As of December 31, 2022, our money trusts had made loans in the aggregate principal amount of \(\pi\)7,287 billion (excluding loans to our banking operations of \(\pi\)1,980 billion), which accounted for approximately 15.6% of our money trust assets.

The amounts due from banks consist of local currency and foreign currencies. As of December 31, 2022, such amounts due from banks totaled \(\forall 25,111\) billion, which accounted for approximately 53.8% of our money trust assets.

If the income from a money trust for which we provide a guarantee is less than the amount of the payments we have guaranteed, we will need to pay the amount of the shortfall with funds from special reserves maintained in our trust accounts, followed by basic fees from that money trust and funds from our banking operations. We net any payments we make as a result of these shortfalls against any gains we receive from other money trusts. No material payments of any such shortfall amounts were made in 2022.

Property Trusts. Through Woori Bank and Woori Asset Trust Co., Ltd., we also offer property trust management services, where we manage non-cash assets in return for a fee. Non-cash assets include mostly receivables (including those securing asset-backed securities), real property and securities, but can also include movable property such as artwork. Under these arrangements, we render escrow or custodial services for the property in question and collect fees in return.

In 2022, our property trust fees generally ranged from 0.003% to 5.00% of total assets under management, depending on the type of trust account product. As of December 31, 2022, the balance of our property trusts totaled  $\frac{1}{2}$ 76,444 billion.

Property trusts are not consolidated within our financial statements.

## **Investment Trust Management**

Through Woori Asset Management Corp., Woori Global Asset Management Co. and Woori Private Equity Asset Management Co. Ltd., we offer investment trust products to our customers and manage the assets invested by them in investment trusts. The investment trust products we offer generally take the form of beneficiary certificates evidencing an ownership interest in a particular investment trust. We currently offer various different types of investment trust products, including:

- securities funds, where securities (excluding certain securities relating to, among others, real estate, ship
  investment companies, social infrastructure and overseas resource development) consist of more than
  50% of their assets;
- real estate funds, where real estate (including investments in, among others, derivatives based on underlying assets consisting of real estate and loans to corporations relating to real estate development) consist of more than 50% of their assets;
- special asset funds, where assets other than securities and real estate consist of more than 50% of their assets:
- *mixed asset funds*, which do not have the restrictions that apply to securities funds, real estate funds and special asset funds; and

 money market funds, which invest in short-term financial products, such as call loans, commercial paper, certificates of deposit and short-term treasury notes and corporate bonds.

The investment trusts we manage are generally trusts that allow investors to share in the investment performance of the trust in proportion to the amount of their investment in the trust. We have investment discretion over all investment trusts. Investment trusts calculate the value of their assets as often as required by the relevant laws and regulations, and any change in the overall valuation of their assets will be reflected in the price of their beneficiary certificates. The trust will disburse principal and any return on investment based on the price of their beneficiary certificates at maturity or upon the receipt of a redemption request, as applicable. In addition to investment trust products, we provide our institutional clients with various investment advisory and discretionary asset investment services.

The following table shows the balances of our investment trusts by type as of December 31, 2022. Under IFRS, we do not consolidate investment trusts due to the fact that the assets invested are not our assets but customer assets:

	As of December 31,
	2022(1)
	(in billions of Won)
Securities funds	₩23,684
Real estate funds	1,223
Special asset funds	2,391
Mixed asset funds	207
Money market funds	12,157
Total	₩39,662

<sup>(1)</sup> Includes assets under management by Woori Private Equity Asset Management Co., Ltd. See "—Other Businesses—Private Equity."

We receive fees for our investment trust management services consisting of management fees in connection with establishing, operating and managing the investment trust, asset management fees and related advisory fees. These fees are calculated by multiplying the daily net asset value of the trust by a percentage provided in the trust documentation. Fees accrue on a daily basis and are paid out as expenses periodically. Fees from our investment trust management services amounted to \$17 billion in 2022.

Although our current customer base consists mainly of institutional investors, we have been seeking to market our investment trust products to retail customers through our consumer banking network. We believe that significant opportunities exist for us to leverage our existing base of consumer banking customers to cross-sell our investment trust products. We intend to focus on the development of new products tailored to particular customer segments and the enhancement of sales and distribution capabilities through each of our marketing channels to meet our customers' needs.

### Trustee and Custodian Services Relating to Securities Investment Trusts

Through Woori Bank, as of December 31, 2022, we acted as a trustee for 4,420 securities investment trusts, mutual funds and other investment funds. We receive a fee for acting as a trustee and generally perform the following functions:

- receiving payments made in respect of such securities;
- executing trades in respect of such securities on behalf of the investment fund, based on instructions from the relevant investment fund management company; and
- in certain cases, authenticating beneficiary certificates issued by investment trust management companies and handling settlements in respect of such beneficiary certificates.

For the year ended December 31, 2022, our fee income from such services was \u24.7 billion.

## **Other Businesses**

## Management of National Housing and Urban Fund

In April 2008, through Woori Bank, we were selected to be the lead manager of the National Housing and Urban Fund. The National Housing and Urban Fund provides financial support to low-income households in Korea by providing mortgage financing and construction loans for projects to build small- and medium-sized housing. As of December 31, 2022, outstanding housing loans from the National Housing and Urban Fund amounted to approximately \(\fomage \)133.6 trillion, of which we originated \(\fomage \)84.4 trillion. The activities of the National Housing and Urban Fund are funded primarily by the issuance of national housing bonds, which must be purchased by persons and legal entities wishing to make real estate-related registrations and filings, and by subscription savings deposits held at the National Housing and Urban Fund.

In return for managing the operations of the National Housing and Urban Fund, we receive a monthly fee. This fee consists of a fund raising fee and a loan origination fee. The fund raising fee is based on the number of National Housing and Urban Fund subscription savings deposit accounts opened and the level of activity for existing accounts and the number of National Housing and Urban Fund bonds issued or redeemed. The loan origination fee is based on the number of new National Housing and Urban Fund loans and the number of National Housing and Urban Fund mortgage loans to contractors constructing housing units that are assumed by the individual buyers of housing units and the level of activity for existing loans during each month. We received total fees of approximately \(\forall \)55 billion for managing the National Housing and Urban Fund in 2022.

#### Bancassurance

The term "bancassurance" refers to the marketing and sale by commercial banks of insurance products manufactured within a group of affiliated companies or by third-party insurance companies. Through Woori Bank, we market a wide range of bancassurance products. In 2022, we generated fee income of approximately \text{\club 110} billion through the marketing of bancassurance products. We believe that we will be able to continue to develop an important new source of fee-based revenues by expanding our offering of these products. We have entered into bancassurance marketing arrangements with 30 insurance companies, including TongYang Life Insurance, Hanwha Life Insurance, Samsung Life Insurance, Samsung Fire and Marine Insurance, Hyundai Fire and Marine Insurance and American International Assurance, and plan to enter into additional insurance product marketing arrangements with other leading insurance companies whose names and reputation are likely to be familiar to our customer base.

## Private Equity

In 2016, Woori Private Equity Co., Ltd., which was established in October 2005, registered as a specialized private placement collective investment business under the Financial Investment Services and Capital Markets Act and changed its name to Woori Private Equity Asset Management Co., Ltd., or Woori PEAM. Such registration enabled it to manage specialized private placement collective investment vehicles (which include hedge funds) targeting professional investors, in addition to its existing business of making long-term and strategic investments in buyout target companies and actively involving itself in their management.

Currently Woori PEAM serves as the general partner of 7 private equity funds. Such private equity funds include Woori Shinyoung Growth Cap Private Equity Fund 1, the size of which is approximately \(\foldagge 163\) billion; Woori Q Corporate Restructuring Private Equity Fund, the size of which is approximately \(\foldagge 21\) billion; Woori-Dino Private Equity Fund 1, the size of which is approximately \(\foldagge 10.2\) billion; Green ESG Growth Private Equity Fund 1, the size of which is approximately \(\foldagge 165\) billion; NH-Woori Newdeal Growth Alpha Private Equity Fund 1, the size of which is approximately \(\foldagge 220\) billion; and Australia Green Energy Private Equity Fund 1, the size of which is approximately \(\foldagge 124\) billion. In addition to the aforementioned 7 private equity funds, Woori PEAM has previously launched Woori Hanwha Eureka Private Equity Fund, which was liquidated in November 2022 for \(\foldagge 43.5\) billion.

Woori PEAM also established and currently manages 16 alternative investment funds with an aggregate investment amount of approximately \(\formall^{1}\).21 trillion. The aggregate amount of assets under management of these 16 alternative investment funds is approximately \(\formall^{6}\)99 billion.

We expect that Woori PEAM will continue to provide us with investment opportunities, through identifying potential investees suffering from inefficient management and effecting financial restructuring and strategic reorientation in those investees so as to enhance their enterprise value, as well as serve as a source of business for other segments by managing specialized private placement collective investment vehicles for professional investors.

## Competition

We compete with other financial institutions in Korea, including principally nationwide and regional Korean commercial banks and branches of foreign banks operating in Korea. In addition, in particular segments such as credit cards, securities and insurance, we compete with specialized financial institutions focusing on such segments. Some of the financial institutions we compete with are larger in terms of asset size and customer base and have greater financial resources or more specialized capabilities than us or our subsidiaries.

Competition in the Korean financial market has been and is likely to remain intense. In particular, in the area of our core banking operations, most Korean banks have been focusing on retail customers and small- and medium-sized enterprises in recent years, although they have begun to increase their exposure to large corporate borrowers, and have been focusing on developing fee income businesses, including bancassurance, as increasingly important sources of revenue. In the area of credit cards, increased competition in the payments market and the resulting increase in our marketing activities, as well as the general trend towards lower merchant fees, are adversely affecting profits in the segment. In our new capital segment, our profitability may be adversely affected by increasing competition in the automobile finance and lease finance markets.

In addition, the introduction of Internet-only banks in Korea is expected to increase competition in the Korean banking industry. Internet-only banks generally operate without branches and conduct most of their operations through electronic means, which enable them to minimize costs and offer customers higher interest rates on deposits or lower lending rates. In April 2017, Kbank, the first Internet-only bank in Korea, in which Woori Bank owns 12.6% of the equity with voting rights as of December 31, 2022, commenced operations. Kakao Bank and Toss Bank, both mobile-only banks, commenced operations in July 2017 and October 2021, respectively.

Furthermore, the following general regulatory reforms in the Korean financial industry have increased competition among banks and other financial institutions in Korea:

- In the second half of 2015, the Korean government implemented measures to facilitate bank account
  portability of retail customers by requiring commercial banks to establish systems that allow retail
  customers to easily switch their bank accounts at one commercial bank to another and automatically
  transfer the automatic payment settings of their former accounts to the new ones.
- In March 2016, the Financial Services Commission introduced an individual savings account scheme in Korea, which enables individuals to efficiently manage a wide range of retail investment vehicles, including cash deposits, investment funds and securities investment products, from a single integrated account with one financial institution and offers tax benefits on investment returns. Since the scheme backed by the Korean government allows only one individual savings account per person, financial institutions have been competing to retain existing customers and attract new customers since the launch of the individual savings account scheme. Over 30 financial institutions, including banks, securities companies and insurance companies, have registered with the Financial Services Commission to sell their individual savings account products, and we expect fierce competition among these institutions.
- In April 2019, the Financial Services Commission approved and is currently conducting test procedures for a financial regulatory sandbox, a framework set up to allow financial service providers to test new business models in a less regulated environment, as part of its efforts to work closely with the fintech

- sector and provide support to facilitate its development. A variety of financial services have been similarly approved for such testing under the financial regulatory sandbox.
- In December 2019, the Financial Services Commission launched an "open banking" system, which
  allows customers to view banking account information and make wire transfers, regardless of institution,
  through a single mobile application. Such integrated system is expected to allow fintech firms to share
  payment networks with banks, thereby lowering transaction fees and encouraging the development of
  new payment services.
- In August 2020, amendments to the Credit Information Use and Protection Act established the framework for MyData services in Korea, which allow the collection of customers' personal credit information from credit information providers/users or public institutions upon the customer's request and subject to compliance requirements, so that customers may access such collected personal credit information in whole or in part. In January 2021, the Financial Services Commission granted licenses to 28 companies to operate as MyData service providers, 14 of which were fintech firms, and competition between traditional financial institutions and fintech firms is expected to intensify, particularly with respect to the relevant asset management services. As of December 31, 2022, 64 companies, including 23 fintech companies, have been granted a MyData license. MyData services are currently offered through Woori WON Banking, Woori Bank's main mobile banking application, as well as through Woori Card's mobile application.
- In March 2023, the Financial Services Commission and the Financial Supervisory Service jointly hosted the initial working group meeting of a task force committed to improving the management and operating practices of banks and banking system. One of the goals of the task force is to promote competition in the banking sector. During the initial working group meeting, authorities discussed ways to allow entry of new banks and boost competition between banks and nonbanks. These measures under discussion include, without limitation, (1) introducing small licensing units and small-scale specialized banks, (2) allowing entry of additional internet-only banks, regional banks and nation-wide banks, (3) converting mutual savings banks into regional banks and regional banks into nation-wide banks, (4) allowing credit card companies to provide comprehensive payment settlement services, (5) allowing securities firms to provide payment settlement services to corporate entities, (6) permitting insurance companies to concurrently operate payment settlement services, (7) expanding banks' loans to small and medium-sized enterprises and small-loans to lower-income groups, and (8) extending nonbanks' scope of services in handling policy fund loans and policy mortgages. The task force has held and will hold future working group meetings to discuss these issues and we expect that they will develop specific measures to increase competition in the banking sector in the near future. In addition, in February 2023, the Korea Fair Trade Commission conducted on-site examinations of the major banks, including us, to determine whether the banks have engaged in unfair trade practices.

Overall, such measures may not only intensify competition among traditional financial institutions in Korea, but also allow new market participants such as fintech firms to potentially gain market share in certain areas in which we operate.

Moreover, the Korean financial industry is undergoing significant consolidation through which the number of nationwide commercial banks in Korea has significantly decreased since the financial crisis in Korea in the late 1990s. A number of significant mergers and acquisitions in the financial industry have also taken place in Korea in recent years, including the merger of Hana Bank into Korea Exchange Bank in 2015, KB Financial Group's acquisition of Hyundai Securities Co., Ltd. in 2016 and the subsequent merger of Hyundai Securities with and into KB Investment & Securities Co., Ltd. in 2016. In 2016, Mirae Asset Securities Co., Ltd. acquired a 43% interest in KDB Daewoo Securities Co., Ltd., which subsequently merged with and into Mirae Asset Securities. In 2014, pursuant to the implementation of the Korean government's privatization plan with respect to Woori Finance Holdings and its former subsidiaries, Woori Financial, Woori Asset Management and Woori F&I were acquired by KB Financial Group, Kiwoom Securities and Daishin Securities, respectively, and Woori Investment & Securities, Woori Aviva Life Insurance and Woori FG Savings Bank were acquired by NongHyup

Financial Group. In addition, in October 2014, the KDIC's ownership interest in Kwangju Bank and Kyongnam Bank were acquired by JB Financial Group and BNK Financial Group (formerly known as BS Financial Group), respectively. See "Item 4.A. History and Development of the Company—Privatization Plan." In 2020, Hana Financial Group acquired The-K Non-Life Insurance Co., Ltd. to form Hana Insurance Co., Ltd. Orange Life Insurance, Ltd. (formerly known as ING Life Insurance Korea, Ltd.) became a wholly-owned subsidiary of Shinhan Financial Group following the acquisition of equity interests by Shinhan Financial Group in February 2019 and January 2020, which subsequently merged with and into Shinhan Life Insurance Co., Ltd. in July 2021. In 2020, Shinhan Financial Group acquired the venture capital firm Neoplux. In January 2022, Shinhan Financial Group's subsidiary, Shinhan Asset Management Co., Ltd., merged with Shinhan Alternative Investment Management Inc. In July 2022, Shinhan Financial Group acquired BNP Paribas Cardif General Insurance, and established Shinhan EZ General Insurance. In 2020, KB Financial Group acquired The Prudential Life Insurance Company of Korea Ltd., which merged with KB Life Insurance in January 2023, with the surviving entity's name changed to KB Life Insurance Co., Ltd.

We expect that consolidation in the Korean financial industry will continue. Other financial institutions may seek to acquire or merge with other entities, and the financial institutions resulting from this consolidation may, by virtue of their increased size and business scope, provide significantly greater competition for us. We also believe that foreign financial institutions, many of which have greater experience and resources than we do, may seek to compete with us in providing financial products and services either by themselves or in partnership with existing Korean financial institutions. See "Item 3.D. Risk Factors—Risks relating to competition."

#### **Assets and Liabilities**

The tables below and accompanying discussions provide selected financial highlights regarding our assets and liabilities on a consolidated basis.

Certain information with respect to our loan portfolio and the asset quality of our loans is presented below on a basis consistent with certain requirements of the Financial Services Commission applicable to Korean financial institutions, which differs (as described below where applicable) from the presentation of such information in our financial statements prepared in accordance with IFRS, as we believe that such alternative presentation allows us to provide additional details regarding our loan portfolio and the asset quality of our loans which would be helpful to our investors.

### Loan Portfolio

As of December 31, 2022, the balance of our total loan portfolio was \(\foathbal{W}\)345,411 billion. As of December 31, 2022, 89.2% of our total loans were Won-denominated loans and 10.8% of our total loans were denominated in other currencies. Of the \(\foathbal{W}\)37,353 billion of foreign currency-denominated loans as of that date, approximately 78.0% represented "foreign" loans provided by Woori Bank to offshore entities and individuals. Woori Bank extends such foreign loans primarily through its overseas branches to affiliates of large Korean manufacturing companies for trade financing and working capital.

Except where we specify otherwise, all loan amounts stated below do not include amounts due from banks and other receivables and are prior to deducting allowance for credit losses and present value discount or reflecting deferred origination costs, and all corporate loan amounts stated below include loans made to the Korean government and government-owned agencies and banks.

# Loan Types

The following table presents loans by type as of the dates indicated. Total loans reflect our loan portfolio, including past due amounts.

Domestic         (minitary colspan="2")           Commercial and industrial         w 131,695         w 143,695         w 143,695         w 143,695         w 143,695         w 143,695         w 143,695         w 16,720           Total corporate         158,222         167,27         consumer           General purpose household         42,164         38,447         w 24,164         x 24,162         x 24,162 <td colspa<="" th=""><th></th><th>As of Dece</th><th>ember 31,</th></td>	<th></th> <th>As of Dece</th> <th>ember 31,</th>		As of Dece	ember 31,
Domestie:           Corporate(1):         W131,695         W145,500           Commercial and industrial         \$1,743         2,207           Trade financing         8,341         6,762           Other commercial         16,443         12,802           Total corporate         158,222         167,271           Consumer:         8         44,164         38,447           Mortgage         69,902         69,299           Home equity         31,875         31,027           Total consumer         143,941         138,773           Credit cards         9,757         10,370           Total domestic         31,920         316,414           Foreign:           Corporate(2):         2         2           Commercial and industrial         18,926         21,103           Lease financing         26         2           Total forage         2,072         2           Total commercial         1,279         629           Other commercial         1,299         2,072           Total foreign         25,915         28,997           Total foreign         25,915         28,997           Total foreign		2021	2022	
Corporate(1):         Commercial and industrial         #131,695         #145,500           Lease financing         1,743         2,207           Trade financing         8,341         6,762           Other commercial         16,443         12,802           Total corporate         158,222         167,271           Consumer:         69,002         69,209           Mortgage         69,902         69,209           Home equity         31,875         31,027           Total consumer         143,941         138,773           Credit cards         9,757         10,370           Total domestic         311,920         316,414           Foreign:           Commercial and industrial         18,926         21,103           Lease financing         26           Trade financing         1,270         629           Other commercial         1,299         2,072           Total corporate         21,495         23,830           Consumer         4,420         5,167           Total foreign         25,915         28,997           Total loans(3)         W337,835         W345,411           Less: present value discount         (7)         (10)<		(in billion	s of Won)	
Commercial and industrial         W131,695         W145,500           Lease financing         1,743         2,207           Trade financing         8,341         6,762           Other commercial         16,443         12,802           Total corporate         158,222         167,271           Consumer:         69,002         69,299           Home equity         31,875         31,027           Total consumer         143,941         138,773           Credit cards         9,757         10,370           Total domestic         311,920         316,414           Foreign:         2         Commercial and industrial         18,926         21,103           Lease financing         12,70         629           Other commercial         1,270         629           Other commercial         1,270         629           Other commercial         1,299         2,072           Total corporate         21,495         23,830           Consumer         4,420         5,167           Total foreign         25,915         28,997           Total loans(3)         W337,835         W345,411           Less: present value discount         (7)         (10)				
Lease financing       1,743       2,207         Trade financing       8,341       6,762         Other commercial       16,443       12,802         Total corporate       158,222       167,271         Consumer:       8,447       38,447         General purpose household       42,164       38,447         Mortgage       69,902       69,299         Home equity       31,875       31,027         Total consumer       143,941       138,773         Credit cards       9,757       10,370         Total domestic       311,920       316,414         Foreign:       2       2         Corporate(2):       2       2         Commercial and industrial       18,926       21,103         Lease financing       1,270       629         Other commercial       1,270       629         Other commercial       1,270       629         Other commercial       21,495       23,830         Consumer       21,495       23,830         Consumer       4,420       5,167         Total foreign       25,915       28,997         Total loans(3)       W337,835       W345,411         L	<u>.</u>			
Trade financing         8,341         6,762           Other commercial         16,443         12,802           Total corporate         158,222         167,271           Consumer:         31,872         38,447           Mortgage         69,902         69,299           Home equity         31,875         31,027           Total consumer         143,941         138,773           Credit cards         9,757         10,370           Total domestic         31,920         316,414           Foreign:           Commercial and industrial         18,926         21,103           Lease financing         26         1,270         629           Other commercial         1,270         629           Other commercial         1,299         2,072           Total corporate         21,495         23,830           Consumer         4,420         5,167           Total foreign         25,915         28,997           Total loans(3)         \$337,835         \$345,411           Less: present value discount         (7)         (10)           Less: deferred origination costs (fees)         858         852           Less: allowance for credit losses				
Other commercial         16,443         12,802           Total corporate         158,222         167,271           Consumer:         ————————————————————————————————————	Lease financing	1,743	,	
Total corporate       158,222       167,271         Consumer:       General purpose household       42,164       38,447         Mortgage       69,902       69,299         Home equity       31,875       31,027         Total consumer       143,941       138,773         Credit cards       9,757       10,370         Total domestic       311,920       316,414         Foreign:         Comporate <sup>(2)</sup> :       26         Commercial and industrial       18,926       21,103         Lease financing       26         Trade financing       1,270       629         Other commercial       1,299       2,072         Total corporate       21,495       23,830         Consumer       4,420       5,167         Total loans <sup>(3)</sup> W337,835       W345,411         Less: present value discount       (7)       (10)         Less: deferred origination costs (fees)       858       852         Less: allowance for credit losses       (1,887)       (2,334)	· ·	,	,	
Consumer:       42,164       38,447         Mortgage       69,902       69,299         Home equity       31,875       31,027         Total consumer       143,941       138,773         Credit cards       9,757       10,370         Total domestic       311,920       316,414         Foreign:         Corporate(2):       2         Commercial and industrial       18,926       21,103         Lease financing       26         Trade financing       1,270       629         Other commercial       1,299       2,072         Total corporate       21,495       23,830         Consumer       4,420       5,167         Total foreign       25,915       28,997         Total loans(3)       W337,835       W345,411         Less: present value discount       (7)       (10)         Less: present value discount       (7)       (10)         Less: deferred origination costs (fees)       858       852         Less: allowance for credit losses       (1,887)       (2,334)	Other commercial	16,443	12,802	
General purpose household       42,164       38,447         Mortgage       69,902       69,299         Home equity       31,875       31,027         Total consumer       143,941       138,773         Credit cards       9,757       10,370         Total domestic       311,920       316,414         Foreign:         Comporate <sup>(2)</sup> :       2         Commercial and industrial       18,926       21,103         Lease financing       26         Trade financing       1,270       629         Other commercial       1,299       2,072         Total corporate       21,495       23,830         Consumer       4,420       5,167         Total foreign       25,915       28,997         Total loans <sup>(3)</sup> \$337,835       \$345,411         Less: present value discount       (7)       (10)         Less: deferred origination costs (fees)       858       852         Less: allowance for credit losses       (1,887)       (2,334)	Total corporate	158,222	167,271	
Mortgage       69,902       69,299         Home equity       31,875       31,027         Total consumer       143,941       138,773         Credit cards       9,757       10,370         Total domestic       311,920       316,414         Foreign:         Commercial and industrial       18,926       21,103         Lease financing       26         Trade financing       1,270       629         Other commercial       1,299       2,072         Total corporate       21,495       23,830         Consumer       4,420       5,167         Total foreign       25,915       28,997         Total loans(3)       \$337,835       \$345,411         Less: present value discount       (7)       (10)         Less: deferred origination costs (fees)       858       852         Less: allowance for credit losses       (1,887)       (2,334)	Consumer:			
Home equity       31,875       31,027         Total consumer       143,941       138,773         Credit cards       9,757       10,370         Total domestic       311,920       316,414         Foreign:         Corporate(2):       2         Commercial and industrial       18,926       21,103         Lease financing       26         Trade financing       1,270       629         Other commercial       1,299       2,072         Total corporate       21,495       23,830         Consumer       4,420       5,167         Total foreign       25,915       28,997         Total loans(3)       W337,835       W345,411         Less: present value discount       (7)       (10)         Less: deferred origination costs (fees)       858       852         Less: allowance for credit losses       (1,887)       (2,334)	General purpose household	42,164	38,447	
Total consumer         143,941         138,773           Credit cards         9,757         10,370           Total domestic         311,920         316,414           Foreign:           Corporate(2):           Commercial and industrial         18,926         21,103           Lease financing         26           Trade financing         1,270         629           Other commercial         1,299         2,072           Total corporate         21,495         23,830           Consumer         4,420         5,167           Total foreign         25,915         28,997           Total loans(3)         \$337,835         \$345,411           Less: present value discount         (7)         (10)           Less: deferred origination costs (fees)         858         852           Less: allowance for credit losses         (1,887)         (2,334)	Mortgage	69,902	69,299	
Credit cards       9,757       10,370         Total domestic       311,920       316,414         Foreign:         Corporate(2):       311,920       21,103         Lease financing       26       21,103         Lease financing       1,270       629         Other commercial       1,299       2,072         Total corporate       21,495       23,830         Consumer       4,420       5,167         Total loans(3)       ₩337,835       ₩345,411         Less: present value discount       (7)       (10)         Less: deferred origination costs (fees)       858       852         Less: allowance for credit losses       (1,887)       (2,334)	Home equity	31,875	31,027	
Total domestic       311,920       316,414         Foreign:         Corporate(2):       2         Commercial and industrial       18,926       21,103         Lease financing       26         Trade financing       1,270       629         Other commercial       1,299       2,072         Total corporate       21,495       23,830         Consumer       4,420       5,167         Total loans(3)       ₩337,835       ₩345,411         Less: present value discount       (7)       (10)         Less: deferred origination costs (fees)       858       852         Less: allowance for credit losses       (1,887)       (2,334)	Total consumer	143,941	138,773	
Foreign:         Corporate(2):       18,926       21,103         Lease financing       26         Trade financing       1,270       629         Other commercial       1,299       2,072         Total corporate       21,495       23,830         Consumer       4,420       5,167         Total foreign       25,915       28,997         Total loans(3)       \text{W337,835}       \text{W345,411}         Less: present value discount       (7)       (10)         Less: deferred origination costs (fees)       858       852         Less: allowance for credit losses       (1,887)       (2,334)	Credit cards	9,757	10,370	
Corporate(2):       Commercial and industrial       18,926       21,103         Lease financing       26         Trade financing       1,270       629         Other commercial       1,299       2,072         Total corporate       21,495       23,830         Consumer       4,420       5,167         Total foreign       25,915       28,997         Total loans(3)       \(\frac{\text{W337,835}}{\text{W345,411}}\)       \(\frac{\text{W37}}{\text{S10}}\)       \(\frac{\text{W37}}{\text{S2}}\)         Less: present value discount       (7)       (10)         Less: deferred origination costs (fees)       858       852         Less: allowance for credit losses       (1,887)       (2,334)		311,920	316,414	
Commercial and industrial       18,926       21,103         Lease financing       26         Trade financing       1,270       629         Other commercial       1,299       2,072         Total corporate       21,495       23,830         Consumer       4,420       5,167         Total foreign       25,915       28,997         Total loans(3)       \text{\text{\text{\text{\text{337,835}}}} \text{\text{\text{\text{\text{\text{\text{\text{\text{11}}}}}}         Less: present value discount       (7)       (10)         Less: deferred origination costs (fees)       858       852         Less: allowance for credit losses       (1,887)       (2,334)	· ·			
Lease financing       26         Trade financing       1,270       629         Other commercial       1,299       2,072         Total corporate       21,495       23,830         Consumer       4,420       5,167         Total foreign       25,915       28,997         Total loans <sup>(3)</sup> ₩337,835       ₩345,411         Less: present value discount       (7)       (10)         Less: deferred origination costs (fees)       858       852         Less: allowance for credit losses       (1,887)       (2,334)	•			
Trade financing       1,270       629         Other commercial       1,299       2,072         Total corporate       21,495       23,830         Consumer       4,420       5,167         Total foreign       25,915       28,997         Total loans <sup>(3)</sup> ₩337,835       ₩345,411         Less: present value discount       (7)       (10)         Less: deferred origination costs (fees)       858       852         Less: allowance for credit losses       (1,887)       (2,334)		18,926		
Other commercial         1,299         2,072           Total corporate         21,495         23,830           Consumer         4,420         5,167           Total foreign         25,915         28,997           Total loans <sup>(3)</sup> ₩337,835         ₩345,411           Less: present value discount         (7)         (10)           Less: deferred origination costs (fees)         858         852           Less: allowance for credit losses         (1,887)         (2,334)				
Total corporate         21,495         23,830           Consumer         4,420         5,167           Total foreign         25,915         28,997           Total loans <sup>(3)</sup> \mathred{\mathrea}337,835         \mathrea{\mathrea}345,411           Less: present value discount         (7)         (10)           Less: deferred origination costs (fees)         858         852           Less: allowance for credit losses         (1,887)         (2,334)	· · · · · · · · · · · · · · · · · · ·	,		
Consumer         4,420         5,167           Total foreign         25,915         28,997           Total loans(3)         ₩337,835         ₩345,411           Less: present value discount         (7)         (10)           Less: deferred origination costs (fees)         858         852           Less: allowance for credit losses         (1,887)         (2,334)	Other commercial	1,299	2,072	
Total foreign       25,915       28,997         Total loans(3) $$337,835$$ $$345,411$$ Less: present value discount       (7)       (10)         Less: deferred origination costs (fees)       858       852         Less: allowance for credit losses       (1,887)       (2,334)	Total corporate	21,495	23,830	
Total loans(3)	Consumer	4,420	5,167	
Less: present value discount(7)(10)Less: deferred origination costs (fees)858852Less: allowance for credit losses(1,887)(2,334)	Total foreign	25,915	28,997	
Less: deferred origination costs (fees)858852Less: allowance for credit losses(1,887)(2,334)	Total loans <sup>(3)</sup>	₩337,835	₩345,411	
Less: allowance for credit losses	Less: present value discount	(7)	(10)	
	Less: deferred origination costs (fees)	858	852	
	Less: allowance for credit losses	(1,887)	(2,334)	
Total loans, net	Total loans, net	₩336,799	₩343,919	

<sup>(1)</sup> Including loans made to banks and the Korean government and government-owned agencies.

### Loan Concentrations

On a consolidated basis, our exposure to any single person (regardless of whether such person is an individual or an entity) or any single borrower (any single person together with any individual and/or entity that shares the same credit risk with such person) is limited by law to 20% and 25%, respectively, of our "net aggregate equity capital," as defined under the Enforcement Decree of the Financial Holding Company Act. See "—Supervision and Regulation—Principal Regulations Applicable to Financial Holding Companies—Financial Exposure to Any Individual Customer and Major Investor." In addition, Woori Bank's exposure to any single borrower or any single person is limited by the Bank Act to 20% and 25%, respectively, of its total Tier I and Tier II capital.

<sup>(2)</sup> Including loans made to banks.

<sup>(3)</sup> Not including due from banks and other financial assets (or other receivables) and prior to deducting allowance for credit losses and present value discount or reflecting deferred origination costs.

# 20 Largest Exposures by Borrower

As of December 31, 2022, our exposures to our 20 largest borrowers or issuers totaled \$66,929 billion and accounted for 12.1% of our total exposures. The following table sets forth our total exposures to those borrowers or issuers as of that date:

	Loans Guarante							Amounts classified as
Company (Credit Rating)(1)	Won currency	Foreign currency	Equity securities	Debt securities	and acceptances	Total exposures	Collateral <sup>(2)</sup>	substandard or below <sup>(3)</sup>
- ton-puny ( to ton-ton-ton-					lions of Won)			
Korean Government(4)	₩ —	₩ —	₩—	₩18,126	₩ —	₩18,126	₩ —	₩—
Korea Development Bank								
(AAA)	_	165	_	14,123	_	14,288	_	_
Industrial Bank of Korea								
(AAA)	_	304	_	8,922	_	9,226	_	_
Korea Housing Finance								
Corporation (AAA)	_	_	_	7,924	_	7,924	_	_
The Bank of Korea <sup>(4)</sup>	720			2,910		3,630	_	_
Export-Import Bank of Korea								
(AAA)		_		2,151	_	2,151	_	_
KOREA ELECTRIC POWER								
CORPORATION (AAA)	1,400	_		398	30	1,828	_	_
Kookmin Bank (AAA)	991	37	_	_	_	1,028	240	
Samsung Heavy Industries								
Co.,Ltd. (BBB)	_	7	_	_	1,002	1,009	21	
Shinhan Securities Co.,Ltd.								
(AA)	950	_	_	_	_	950	_	
MIRAE ASSET								
SECURITIES.CO., LTD								
(AA)	910	_	_	_		910	_	_
SHINHAN BANK (AAA)	752	38	_	55	5	850	552	
SMALL BUSINESS								
CORPORATION (B+)		_		795		795	_	_
IBK Asset Management								
Co.,Ltd.(B)		_	_	646		646	_	_
Hana Securities Co., Ltd.								
(AA)	638	_	_	_	_	638	_	
KIWOOM ASSET								
MANAGEMENT.Co.Ltd.								
(A+)	620	_				620	_	_
POSCO INTERNATIONAL								
(AAA)		440	_	_	161	601	_	_
SAMSUNG ELECTRONICS								
CO,.LTD (AAA)	250	321	_	_	_	571	_	_
Hyundai Heavy Industries Co.,								
Ltd. (A)	_	13	_	_	556	569	_	_
Defense Acquisition Program						/		
Administration (A)	_	_	_	_	569	569	_	_
	W7 221	W1 225	<b>XX</b> 2	W56 050			WZ012	
Total	₩7,231	v₹1,323	₩—	₩56,050	₩2,323	₩66,929	₩813	₩—

<sup>(1)</sup> Credit ratings are from a domestic credit rating agency, including Korea Ratings Corporation, NICE Investors Service Co. and Korea Investors Services Inc., as of December 31, 2022. If multiple ratings were available, the lowest one is indicated.

<sup>(2)</sup> The value of collateral is appraised based on future cash flow and observable market price.

<sup>(3)</sup> Classification is based on the Financial Services Commission's asset classification criteria.

<sup>(4)</sup> Credit rating is unavailable.

As of December 31, 2022, 3 of these top 20 borrowers or issuers were companies belonging to the 40 largest *chaebols* in Korea. See "Item 3.D. Risk Factors—Risks relating to our corporate credit portfolio—We have exposure to the largest Korean commercial conglomerates, known as "*chaebols*," and, as a result, financial difficulties of *chaebols* may have an adverse impact on us."

# Exposure to Chaebols

As of December 31, 2022, 3.9% of our total exposure was to the 40 largest *chaebols* in Korea. The following table shows, as of December 31, 2022, our total exposures to the 10 *chaebols* to which we have the largest exposure:

Charles	Won Los	Foreign	Equity	Debt	Guarantees and	Total	Callatarral(I)	Amounts Classified as substandard
Chaebol	currency	currency	securities		acceptances		Collateral(1)	or below <sup>(2)</sup>
				(in bi	illions of Won	1)		
Samsung	<b>₩</b> 942	₩1,047	<b>₩</b> 18	₩ 10	₩1,298	<b>₩</b> 3,315	₩ 25	₩—
Hyundai Motors	1,276	634	1	50	423	2,384	_	
SK	1,198	354	6	11	353	1,922	226	_
GS	496	77	_	10	1,133	1,716	_	
Hanwha	1,015	175	_	112	186	1,488	376	
Mirae Asset	1,160	_	_	218	_	1,378	_	
Lotte	924	190	_	20	49	1,183	_	
LG	757	253	1	_	16	1,027	_	
Hyosung	179	393	_	19	233	824	325	
Kolon	546	71		9	130	756	127	
Total	₩8,493	₩3,194	₩26	₩459	₩3,821	₩15,993	₩1,079	₩—

<sup>(1)</sup> The value of collateral is appraised based on future cash flow and observable market price.

# Loan Concentration by Industry

The following table shows, as of December 31, 2022, the aggregate balance of our domestic and foreign corporate loans by industry concentration and as a percentage of our total corporate lending:

	Aggregate corporate loan balance	Percentage of total corporate loan balance
	(in billions of Won)	
Industry		
Manufacturing	₩ 42,956	22.5%
Financial and insurance	22,937	12.0
Retail and wholesale	24,214	12.7
Hotel, leisure and transportation	11,244	5.9
Construction	6,779	3.5
Government and government agencies	194	0.1
Other	82,777	43.3
Total	₩191,101	100.0%

<sup>(2)</sup> Classification is based on the Financial Services Commission's asset classification criteria.

# Maturity Analysis

The following table sets out, as of December 31, 2022, the scheduled maturities (time remaining until maturity) of our loan portfolio:

		Over 1 year	Over 5 years		
	1 year or less	but not more than 5 years	but not more than 15 years	Over 15 years	Total
	1 year or ress		n billions of Wor		
Loans in local currency	₩134,594	₩79,594 `	₩10,916	₩57,583	₩282,687
Loans in foreign currencies	10,467	11,180	3,977	1,721	27,345
Domestic banker's usance	2,877	_	_	_	2,877
Credit card accounts	8,379	1,826	75	90	10,370
Bills bought in foreign currencies	3,651	_	_		3,651
Bills bought in local currency	206	328	_	_	534
Factoring receivables	15	10	_	_	25
Advances for customers on guarantees	23	3	_	_	26
Private placement bonds	296	144	25	20	485
Securitized loans	_	2,911	80	_	2,991
Call loans	3,223	47	_	_	3,270
Bonds purchased under resale					
agreements	6,849	_	_	_	6,849
Financial lease receivables	88	2,035	128	_	2,251
Installment financial bonds	55	1,688	307	_	2,050
Others					
Total loans	₩170,723	₩99,766	₩15,508	₩59,414	₩345,411

A significant portion of our loans with maturities of one year is renewed annually. We typically roll over our working capital loans and consumer loans (other than those payable in installments) after we conduct our normal loan review in accordance with our loan review procedures. Under our internal guidelines, we may generally extend working capital loans on an annual basis for an aggregate term of five years. Those guidelines also allow us to generally extend consumer loans other than home equity loans for another term on an annual basis for an aggregate term of up to five years (and home equity loans for an aggregate term of up to 10 years).

#### Interest Rates

The following table shows, as of December 31, 2022, the total amount of our loans due after one year that have fixed interest rates and variable or adjustable interest rates:

	Fixed Rate <sup>(1)</sup>	Variable or adjustable rates <sup>(2)</sup>	Total
	(	in billions of W	on)
Loans in local currency	₩48,305	₩ 99,788	₩148,093
Loans in foreign currencies	4,959	11,919	16,878
Domestic banker's usance		_	_
Credit card accounts	1,991	_	1,991
Bills bought in foreign currencies	_	_	_
Bills bought in local currency	328	_	328
Factoring receivables	10	_	10
Advances for customers on guarantees	3	_	3
Private placement bonds	139	50	189
Securitized loans	2,121	870	2,991
Call loans	47	_	47
Bonds purchased under resale agreements	_	_	_
Financial lease receivables	2,163	_	2,163
Installment financial bonds	1,995	_	1,995
Others	_	_	_
Total loans	₩62,061	₩112,627	₩174,688

<sup>(1)</sup> Fixed rate loans are loans for which the interest rate is fixed for the entire term.

For additional information regarding our management of interest rate risk, see "Item 11. Quantitative and Qualitative Disclosures about Market Risk—Market Risk Management—Asset and Liability Management."

# Asset Quality of Loans

Except where we specify otherwise, all loan amounts stated below do not include amounts due from banks and other receivables and are prior to deducting allowance for credit losses and present value discount or reflecting deferred origination costs, and all corporate loan amounts stated below include loans made to the Korean government and government-owned agencies and banks.

### Loan Classifications

The Financial Services Commission generally requires Korean financial institutions to analyze and classify their assets by quality into one of five categories for reporting purposes. In making these classifications, we take into account a number of factors, including the financial position, profitability and transaction history of the borrower, and the value of any collateral or guarantee taken as security for the extension of credit. This classification method, and our related provisioning policy, is intended to fully reflect the borrower's capacity to repay.

<sup>(2)</sup> Variable or adjustable rate loans are loans for which the interest rate is not fixed for the entire term.

The following is a summary of the asset classification criteria we apply for corporate and consumer loans, based on the asset classification guidelines of the Financial Services Commission. Credit card receivables are subject to classification based on the number of days past due, as required by the Financial Services Commission. We also apply different criteria for other types of credits such as loans to the Korean government or to government-related or controlled entities, certain bills of exchange and certain receivables.

Asset Classification	Characteristics
Normal	Credits extended to customers that, based on our consideration of their business, financial position and future cash flows, do not raise concerns regarding their ability to repay the credits.
Precautionary	Credits extended to customers that:
	<ul> <li>based on our consideration of their business, financial position and future cash flows, show potential risks with respect to their ability to repay the credits, although showing no immediate default risk; or</li> </ul>
	• are in arrears for one month or more but less than three months.
Substandard	Either:
	<ul> <li>credits extended to customers that, based on our consideration of their business, financial position and future cash flows, are judged to have incurred considerable default risks as their ability to repay has deteriorated; or</li> </ul>
	• the portion that we expect to collect of total loans (i) extended to customers that have been in arrears for three months or more, (ii) extended to customers that have incurred serious default risks due to the occurrence of, among other things, final refusal to pay their debt instruments, entry into liquidation or bankruptcy proceedings, or closure of their businesses, or (iii) extended to customers who have outstanding loans that are classified as "doubtful" or "estimated loss."
Doubtful	Credits exceeding the amount we expect to collect of total credits to customers that:
	<ul> <li>based on our consideration of their business, financial position and future cash flows, have incurred serious default risks due to noticeable deterioration in their ability to repay; or</li> </ul>
	• have been in arrears for three months or more but less than 12 months.

Asset Classification Characteristics

Credits exceeding the amount we expect to collect of total credits to customers that:

- based on our consideration of their business, financial position and future cash flows, are judged to have to be accounted as a loss as the inability to repay became certain due to serious deterioration in their ability to repay;
- have been in arrears for 12 months or more; or
- have incurred serious risks of default in repayment due to the occurrence of, among other things, final refusal to pay their debt instruments, liquidation or bankruptcy proceedings or closure of their business.

Credit cord

Credit cord

# Loan Loss Provisioning Policy

Under IFRS 9 *Financial Instruments*, or IFRS 9, we establish allowances for credit losses based on expected credit losses instead of incurred losses by assessing changes in expected credit losses and recognizing such changes as impairment loss (or reversal of impairment loss) in profit or loss. Under IFRS 9, the allowance required to be established with respect to a loan or financial asset is the amount of the expected 12-month credit loss or the expected lifetime credit loss for the applicable loan or financial asset, according to three stages of credit risk deterioration since initial recognition.

If additions or changes to the allowance for credit losses are required, then we record provisions for credit loss, which are included in impairment losses due to credit loss and treated as charges against current income. Credit exposures that we deem to be uncollectible, including actual loan losses, net of recoveries of previously charged-off amounts, are charged directly against the allowance for credit losses. See "Item 5.A. Operating Results—Critical Accounting Policies—Impairment of Loans and Allowance for Credit Losses."

We conclude that a loan is impaired when it is under one of the following conditions:

- when the principal is past due by 90 days or more due to significant deterioration in credit;
- for loans overdue for less than 90 days, when it is determined that not even a portion of the loan will be recovered unless a claim action, such as disposal of collateral, is taken; or
- when other objective indicators of impairment have been noted for the loan.

In addition, if our allowance for credit losses is deemed insufficient for regulatory purposes, we compensate for the difference by recording a planned regulatory reserve for credit loss, which is segregated within our retained earnings. The level of planned regulatory reserve for credit loss required to be recorded is equal to the amount by which our allowance for credit losses under IFRS is less than the greater of (x) the amount of expected loss calculated using the internal ratings-based approach under Basel II and as approved by the Financial Supervisory Service and (y) the required amount of credit loss reserve calculated based on guidelines prescribed by the Financial Services Commission. The following table sets forth the Financial Services Commission's guidelines applicable to our subsidiary Woori Bank for the minimum percentages of the outstanding principal amount of the relevant loans or balances that the credit loss reserve must cover:

Loan classifications	Corporate <sup>(1)</sup>	Consumer	receivables(2)	loans(3)
Normal	0.85% or above <sup>(4)</sup>	1% or above	1.1% or above	2.5% or above
Precautionary	7% or above	10% or above	40% or above	50% or above
Substandard	20% or above	20% or above	60% or above	65% or above
Doubtful	50% or above	55% or above	75% or above	75% or above
Estimated loss	100%	100%	100%	100%

In addition, according to the Regulation on the Supervision of Banking Business, banks are required to maintain allowances for credit losses with respect to their confirmed guarantees, including confirmed acceptances, as well as their outstanding but unused credit lines. The amount of these allowances must be calculated using the same rates applicable to normal, precautionary, substandard, doubtful, and estimated loss credits that make up their outstanding loans and other credits, as described above.

The process to determine the allowances for off-balance sheet positions under IFRS 9 is similar to the methodology used for loans. Any loss amounts are recognized as a provision in the consolidated statements of financial position within liabilities and charged to the consolidated statement of income as a component of the impairment losses due to credit loss.

The actual amount of credit losses we incur may differ from our loss estimates as a result of changing economic conditions, changes in industry or geographic concentrations, or other factors. We monitor the differences between our estimated and actual incurred credit losses, and we undertake detailed periodic assessments of both individual loans and credit portfolios, the models we use to estimate incurred credit losses in those portfolios and the adequacy of our overall allowances.

### Loan Aging Schedule

The following table shows our loan aging schedule (excluding accrued interest) as of the dates indicated. In line with industry practice, we have restructured a portion of our delinquent credit card balances as loans.

		As of December 31, 2022										
	Norma	l	Past due by 1 month or less		Past due by 1-3 months		Past due by 3-6 months		Past due by more than 6 months		Total	
				(in b	illions of '	Won, ex	cept perc	entages	s)			
	Amount	<b>%</b>	Amount past due	%	Amount past due	%	Amount past due	%	Amount past due	%	Amount	%
Domestic												
Corporate <sup>(1)</sup>												
Commercial and industrial	. ₩144,765	41.9%	₩ 331	0.1%	₩190	0.1%	₩102	0.0%	₩112	0.0%	₩145,500	42.1%
Lease financing	. 2,196	0.6	6	0.0	2	0.0	2	0.0	1	0.0	2,207	0.6
Trade financing	. 6,754	2.0	1	0.0	5	0.0	1	0.0	1	0.0	6,762	2.0
Other commercial	. 12,781	3.7	8	0.0	5	0.0	6	0.0	2	0.0	12,802	3.7
Total corporate	. 166,496	48.2	346	0.1	202	0.1	111	0.0	116	0.0	167,271	48.4
Consumer	•										,	
General purpose household	. 37,957	11.0	234	0.1	110	0.0	71	0.0	75	0.0	38,447	11.1
Mortgages	. 68,838	19.9	323	0.1	66	0.0	37	0.0	35	0.0	69,299	20.1
Home equity	. 30,836	8.9	122	0.0	35	0.0	17	0.0	17	0.0	31,027	9.0
Total consumer	. 137,631	39.8	679	0.2	211	0.1	125	0.0	127	0.0	138,773	40.2
Credit cards	. 10,092	2.9	134	0.0	81	0.0	61	0.0	2	0.0	10,370	3.0
Total domestic	. 314,219	91.0	1,159	0.3	494	0.1	297	0.1	245	0.1	316,414	91.6
Foreign												
Corporate <sup>(2)</sup>												
Commercial and industrial	. 20,935	6.1	23	0.0	8	0.0	19	0.0	118	0.0	21,103	6.1
Lease financing		0.0	_	0.0	_	0.0	_	0.0	_	0.0	26	0.0
Trade financing		0.2	_	0.0	_	0.0	2	0.0	66	0.0	629	0.2
Other commercial	. 2,072	0.6		0.0		0.0		0.0		0.0	2,072	0.6
Total corporate	. 23,594	6.8	23	0.0	8	0.0	21	0.0	184	0.1	23,830	6.9
Consumer	. 5,077	1.5	20	0.0	20	0.0	12	0.0	38	0.0	5,167	1.5
Total foreign	. 28,671	8.3	43	0.0	28	0.0	33	0.0	222	0.1	28,997	8.4
Total loans <sup>(3)</sup>	. ₩342,890	99.3%	₩1,202	0.3%	₩522	0.2%	₩330	0.1%	₩467	0.1%	₩345,411	100.0%

<sup>(1)</sup> Subject to certain exceptions pursuant to the Banking Industry Supervision Regulations of Korea.

<sup>2)</sup> Applicable for credit card receivables for general purchases of products or services.

<sup>(3)</sup> Applicable for cash advances, card loans and revolving loan receivables.

<sup>(4) &#</sup>x27;0.9% or above' in case of normal credits comprising loans to certain industries including construction, retail and wholesale sales, accommodations, restaurant, real estate and lease.

Not including due from banks and other receivables, and prior to deducting allowance for credit losses and present value discount or reflecting deferred origination costs.

	As of December 31, 2021											
	Past due by Normal 1 month or less				Past due by 1-3 months Past due by 3-6 months					Total		
	Amount	%	Amount past due	(in b	illions of ' Amount past due	ĺ	Amount past due	entages %	Amount past due	%	Amount	%
Domestic Corporate <sup>(1)</sup>			-	_		_		_		_		
Commercial and industrial	₩131,286	38.9%	₩126	0.0%	₩ 89	0.0%	₩ 61	0.0%	₩133	0.0%	₩131,695	39.0%
Lease financing	1,735	0.5	4	0.0	1	0.0	1	0.0	2	0.0	1,743	0.5
Trade financing	8,332	2.5	1	0.0	2	0.0	1	0.0	5	0.0	8,341	2.5
Other commercial	16,424	4.9	5	0.0	2	0.0	1	0.0	11	0.0	16,443	4.9
Total corporate	157,777	46.7	136	0.0	94	0.0	64	0.0	151	0.0	158,222	46.8
General purpose household	41.835	12.4	147	0.0	64	0.0	43	0.0	75	0.0	42,164	12.5
Mortgages	69,621		185	0.0	37	0.0	24	0.0	34	0.0	69,901	20.7
Home equity	31,756	9.4	72	0.0	23	0.0	14	0.0	11	0.0	31,876	9.4
Total consumer	143,212	42.4	404	0.1	124	0.0	81	0.0	120	0.0	143,941	42.6
Credit cards	9,606	2.8	72	0.0	48	0.0	31	0.0	_	0.0	9,757	2.9
Total domestic	310,595	91.9	612	0.2	266	0.1	176	0.1	271	0.1	311,920	92.3
Foreign												
Corporate <sup>(2)</sup>	40.500		4.0		10				405		10.006	
Commercial and industrial	18,782	5.6	13	0.0	10	0.0	14	0.0	107	0.0	18,926	5.6
Lease financing	1.270	0.0	_	0.0	_	0.0	_	0.0	_	0.0	1.270	0.0
Trade financing	1,270	0.4	_	0.0	_	0.0	_	0.0	_	0.0	1,270	0.4
Other commercial	1,299	0.4		0.0		0.0		0.0		0.0	1,299	0.4
Total corporate	21,351	6.4	13	0.0	10	0.0	14	0.0	107	0.0	21,495	6.4
Consumer	4,308	1.3	21	0.0	18	0.0	11	0.0	62	0.0	4,420	1.3
Total foreign	25,659	7.6	34	0.0	28	0.0	25	0.0	169	0.1	25,915	7.7
Total loans <sup>(3)</sup>	₩336,254	99.5%	₩646	0.2%	₩294	0.1%	₩201	0.1%	₩440	0.1%	₩337,835	100.0%

<sup>(1)</sup> Including loans made to banks and the Korean government and government-owned agencies.

# Credit Exposures to Companies in Workout, Restructuring or Rehabilitation

Workout is a voluntary procedure through which we, together with the borrower and other creditors, seek to restore the borrower's financial stability and viability. Previously, workouts were regulated under a series of Corporate Restructuring Promotion Acts, which last expired on June 30, 2018. In September 2018, the National Assembly of Korea adopted a new Corporate Restructuring Promotion Act, which became effective on October 16, 2018 and is scheduled to expire on October 15, 2023. However, on January 30, 2023, the Financial Services Commission announced its intention to extend the Corporate Restructuring Promotion Act. Under the new Corporate Restructuring Promotion Act, creditors of a financially troubled borrower may participate in a creditors' committee, which is authorized to prohibit such creditors from exercising their rights against the borrower, commence workout procedures and approve or make revisions to a reorganization plan prepared by the lead creditor bank, the borrower and external experts. The composition of the creditors' committee is determined at the initial meeting of the committee by the approval of creditors holding not less than 75% of the borrower's total outstanding debt held by creditors who were notified of the initial meeting of the committee. Although creditors that are not financial institutions or hold less than 1% of the total outstanding debt of the borrower need not be notified of the initial meeting of the creditors' committee, if such creditors wish to participate, they may not be excluded. Any decision of the creditors' committee requires the approval of creditors holding not less than

<sup>(1)</sup> Including loans made to banks and the Korean government and government-owned agencies.

<sup>(2)</sup> Including loans made to banks.

<sup>(2)</sup> Including loans made to banks.

<sup>(3)</sup> Not including due from banks and other receivables, and prior to deducting allowance for credit losses and present value discount or reflecting deferred origination costs.

75% of the total outstanding debt of the borrower. However, if a single creditor holds 75% or more of the borrower's total outstanding debt held by the creditors comprising the creditors' committee, any decision of the creditors' committee requires the approval of not less than 40% of the total number of creditors (including such single creditor) comprising the committee. An additional approval of creditors holding not less than 75% of the secured debt is required with respect to the borrower's debt restructuring. Once approved, any decision made by the creditors' committee is binding on all creditors of the borrower, with the exception of those creditors that were excluded by a resolution of the committee at its initial meeting and those who exercised their right to request that their claims be purchased. Creditors that voted against commencement of workout, approval or revision of the reorganization plan, debt restructuring, granting of new credit, extension of the joint management process or other resolutions of the committee have the right to request the creditors that voted in favor of such matters to purchase their claims at a mutually agreed price within seven days from the resolution of the committee. In the event that the parties are not able to agree on the terms of purchase, a coordination committee consisting of experts would determine the terms. The creditors that oppose a decision made by the coordination committee may request a court to change such decision.

Korean law also provides for corporate rehabilitation proceedings, which are court-supervised procedures to rehabilitate an insolvent company. Under these procedures, a restructuring plan is adopted at a meeting of interested parties, including creditors of the company. That restructuring plan is subject to court approval.

A portion of our loans to and debt securities of corporate customers are currently in workout, restructuring or rehabilitation. As of December 31, 2022, \(\forall \)183 billion, or 0.04%, of our total loans and debt securities were in workout, restructuring or rehabilitation. This included \(\forall \)15 billion of loans to and debt securities of large corporate borrowers in workout, restructuring or rehabilitation and \(\forall \)165 billion of loans to and debt securities of small- and medium-sized enterprises in workout, restructuring or rehabilitation, which represented 0.00% and 0.04% of our total loans and debt securities, respectively. At Woori Bank, the Corporate Restoration Department manages its workout, restructured and rehabilitated loans. Upon approval of a workout, restructuring or rehabilitation plan, a credit exposure is initially classified as precautionary or lower and thereafter cannot be classified higher than precautionary with limited exceptions. If a corporate borrower is in workout, restructuring or rehabilitation, we take the status of the borrower into account in assessing our loans to and collateral from that borrower for purposes of establishing our allowance for credit losses.

The following table shows, as of December 31, 2022, our 10 largest exposures that were in workout, restructuring or rehabilitation:

		ans			Guarantees			Amounts Classified as	
Company	Won Currency	Foreign Currency	<b>Equity</b> <b>Securities</b>	Debt Securities	and Acceptances	Total Exposures	Collateral(1)	Substandard or Below <sup>(2)</sup>	Loss Loss
					(in billions of	Won)			
CREA	₩16	₩—	₩—	₩—	₩—	₩16	₩ 8	₩16	₩ 6
WE-CARE TRADING									
CO	_	12	_	_	_	12	12	_	1
THE SOURCE OFFICE	_	11	_	_	_	11	11	_	1
PT Delta Dunia Tekstil A	_	10	_	_	_	10	6	10	3
Vehiclesystem	9	_	_	_	_	9	6	9	4
Crea Gunsan	6	_	_	_	_	6	5	4	2
Chew Young Roo	6	_	_	_	_	6	2	6	6
Genicos Co., Ltd	6	_	_	_	_	6	6	4	1
Trans-Pacific Resources									
Ltd	4	1	_	_	_	5	2	3	2
Deotech Korea Co., Ltd	5					5	5	5	
Total	₩52	₩34	₩—	₩—	₩—	₩86	₩63	₩57	₩26

<sup>(1)</sup> The value of collateral is appraised based on future cash flow and observable market price.

<sup>(2)</sup> Classification is based on the Financial Services Commission's asset classification criteria.

# Non-Performing Loans

Non-performing loans include commercial and consumer loans which are past due by 90 days or more. In addition, non-performing loans include those loans that, even if they are not past due, are classified as "substandard," "doubtful" or "estimated loss" based on the Financial Services Commission's asset classification criteria. Moreover, when a consumer loan borrower has any loans that are classified as "substandard," "doubtful" or "estimated loss" under such criteria, all loans to such borrower are classified as non-performing loans. See "—Loan Classifications" above. The following table shows, as of the dates indicated, certain details of our total non-performing loan portfolio:

	As of Dece	mber 31,		
	2021	2022		
	(in billions of Won, except percentage			
Total non-performing loans	₩ 927 <sup>(1)</sup>	$\$1,016^{(2)}$		
As a percentage of total loans	0.27%	0.29%		

<sup>(1)</sup> Excludes \(\foat{\psi}\)82 billion of previously delinquent credit card balances restructured into loans that were classified as normal or precautionary.

The above amounts do not include loans classified as substandard or below that we sold to United Asset Management Corp., or UAMCO, to certain structured companies, or to other third parties. See "—Sales of Non-Performing Loans."

We have also issued securities backed by non-performing loans and other assets. Some of these transactions involved transfers of loans through securitizations where control of the loans has not been surrendered and, therefore, are not treated as sale transactions. Instead, the assets remain on our balance sheet with the securitization proceeds treated as part of borrowings. These assets are included in the table above.

<sup>(2)</sup> Excludes \(\foathurbrack{\psi}\)124 billion of previously delinquent credit card balances restructured into loans that were classified as normal or precautionary.

The following table sets forth, as of the dates indicated, our total non-performing loans by type of loan:

	As of December 31,			
	202	1	202	2
	Amount	%	Amount	
	(in billio	ns of Won,	except perce	ntages)
Domestic				
Corporate:				
Commercial and industrial	₩ 353	38.10%	₩ 396	38.90%
Lease financing	5	0.50	8	0.70%
Trade financing	16	1.70	24	2.40%
Other commercial	48	5.20	13	1.30%
Total corporate	422	45.50	441	43.30%
Consumer:				
General purpose household <sup>(1)</sup>	173	18.70	221	21.70%
Mortgage	88	9.50	90	8.90%
Total consumer	261	28.20	310	30.60%
Credit cards	49	5.30	88	8.70%
Total domestic	732	79.00	839	82.60%
Foreign				
Corporate:				
Commercial and industrial	96	10.40	93	9.10%
Lease financing	_	0.00	_	0.00%
Trade financing	_	0.00	_	0.00%
Other commercial		0.00		0.00%
Total corporate	96	10.40	93	9.10%
Consumer	99	10.70	84	8.30%
Total foreign	195	21.10	177	17.40%
Total non-performing loans	₩ 927 ———	100.0%	₩1,016	100.0%

<sup>(1)</sup> Includes home equity loans.

The following table presents an analysis of the changes in our non-performing loans for each of the years indicated:

	Year ended December 31		
	2021	2022	
	(in billions	of Won)	
Balance at the beginning of the year	₩1,236	₩ 927	
Additions to non-performing loans			
Loans transferred into non-performing loans	1,300	1,372	
Reductions in non-performing loans			
Loans sold	(375)	(353)	
Loans modified and returned to performing loans	(232)	(118)	
Loans paid down or paid off	(380)	(318)	
Loans charged-off	(622)	(494)	
Other	_	_	
Total net reductions to non-performing loans	(309)	89	
Balance at the end of the year	₩ 927	₩1,016	

*Top 20 Non-Performing Loans.* As of December 31, 2022, our 20 largest non-performing loans accounted for 19.3% of our total non-performing loan portfolio. The following table shows, as of that date, certain information regarding those loans:

	Gross principal outstanding	Allowance for credit losses	Collateral <sup>(1)</sup>	Industry
	(in	billions of W	on)	
Borrower A	₩ 25	₩25	₩ —	Manufacturing
Borrower B	16	6	8	Manufacturing
Borrower C	15	2	15	Manufacturing
Borrower D	20	5		Manufacturing
Borrower E	19	11	_	Other
Borrower F	12	1	12	Other
Borrower G	12	1	11	Retail and wholesale
Borrower H	11	7	4	Retail and wholesale
Borrower I	9	4	6	Manufacturing
Borrower J	6	6	2	Manufacturing
Borrower K	6	1	4	Retail and wholesale
Borrower L	6	_	_	Manufacturing
Borrower M	5	5		Manufacturing
Borrower N	5	3	6	Manufacturing
Borrower O	5		5	Manufacturing
Borrower P	5	3	5	Manufacturing
Borrower Q	5	_	30	Retail and wholesale
Borrower R	5		_	Manufacturing
Borrower S	4	1	6	Manufacturing
Borrower T	4			Manufacturing
Total	₩195	₩81	₩114	

<sup>(1)</sup> The value of collateral is appraised based on future cash flow and observable market price.

# Non-Performing Loans and Impaired Loans

The term "non-performing loan" is used for our asset quality management in accordance with the Banking Industry Supervision Regulations of Korea, whereas the term "impaired loan" is used for financial reporting purposes based on our internal accounting policies in accordance with IFRS 9.

Major differences between non-performing loans and impaired loans are as follows:

Item	Non-performing loans	Impaired loans
Relevant regulation or accounting principle	Banking Industry Supervision Regulations of Korea (loans classified as "substandard," "doubtful" or "estimated loss")	Our internal policy based on IFRS 9
Scope	Loans	Loans (not including due from banks and other financial assets) under IFRS 9
Purchased impaired loans	Not included	Included
Loans classified as "precautionary" based on the Financial Services Commission's asset classification criteria	Not included	Loans classified as "precautionary," for which the borrower has a capital deficit or its auditor's opinion on its financial statements is modified or qualified, are included

The following table shows, as of the dates indicated, the amounts of impaired loans and non-performing loans:

	As of December	
	2021	2022
	(in billion	s of Won)
Impaired loans	₩1,158	₩1,683
Non-performing loans	927	1,016

### Non-Performing Loan Strategy

One of our goals is to improve our asset quality, in part by reducing our non-performing loans. We have standardized the credit risk management systems of our subsidiaries to reduce our risks relating to future non-performing loans. Our credit rating systems are designed to prevent our subsidiaries from extending new loans to high-risk borrowers as determined by their credit rating. Woori Bank's credit monitoring system also brings to its attention any sudden increase in a borrower's credit risk, enabling close monitoring of such loans. See "Item 11. Quantitative and Qualitative Disclosures about Market Risk—Credit Risk Management."

Each of our subsidiaries has one or more units that are responsible for managing non-performing loans. At Woori Bank, for example, the Credit Management and Collection Department and the Corporate Restoration Department generally oversee the process for resolving non-performing loans transferred to them by other Woori Bank business units. We believe that by centralizing the management of our non-performing loans within each subsidiary, we can become more effective in dealing with the issues relating to these loans by pooling institutional knowledge and creating a more specialized workforce.

When a loan becomes non-performing, we will begin a due diligence review of the borrower's assets, send a notice demanding payment or stating that we will take legal action, and prepare for legal action. At the same time, we initiate our non-performing loan management process, which begins with:

- identifying loans subject to a proposed sale by assessing the estimated losses from such sale based on the estimated recovery value of collateral, if any, for such non-performing loans;
- identifying loans subject to charge-off based on the estimated recovery value of collateral, if any, for such non-performing loans and the estimated rate of recovery of unsecured loans; and
- on a limited basis, identifying corporate loans subject to normalization efforts based on the cash-flow situation of the borrower.

Once we have confirmed the details of a non-performing loan, we make efforts to recover amounts owed to us. Methods for resolving non-performing loans include the following:

- · commencing collection proceedings;
- commencing legal actions to seize collateral;
- writing off these amounts, transferring them to specific subsidiaries in charge of collections and authorizing those subsidiaries to recover what they can with respect to these amounts or to sell these loans to third parties; and
- with respect to large corporations, commencing or participating in voluntary workouts or restructurings mandated by Korean courts.

In addition to making efforts to collect on our non-performing loans, we also undertake measures to reduce the overall level of our non-performing loans. These measures include:

- selling our non-performing loans to structured companies established in connection with our joint ventures with several financial institutions; and
- selling our non-performing loans to third parties, including UAMCO.

See "—Sales of Non-Performing Loans." We generally expect to suffer a partial loss on loans that we sell or securitize, to the extent such sales and securitizations are recognized as such under IFRS.

Foreclosure and Collateral. We generally foreclose on mortgages or exercise our security interests in respect of other collateral if a collateralized obligation becomes overdue for more than three months. At that time, we will petition a court to foreclose on collateral and to sell that collateral through a court-supervised auction. Under Korean law, that petition must be filed with a court that has jurisdiction over the mortgaged property, and must be filed together with a copy of the mortgage agreement and an extract of the court registry regarding the subject property. The court will then issue an order to commence the foreclosure auction, which will be registered in the court registry of the subject property. If no bidder bids at least the minimum amount set by the court on the first auction date, the court will set another date for a subsequent auction approximately one month later. Each time a new auction date is set, the minimum auction price will be lowered by approximately 20%. The auction procedure outlined above, however, might not apply to companies currently undergoing restructuring, recovery proceedings, workout or other court proceedings where there may be restrictions on auction procedures. Unlike laws relating to foreclosure in the United States, Korean law does not provide for non-judicial foreclosure. During 2020, 2021 and 2022, we held collateral with respect to loan balances overdue for more than three months representing approximately 0.1%, 0.1% and 0.2%, respectively, of our interest-bearing loan balances in each of those periods.

Korean financial institutions, including us, maintain general policies to assess a potential customer's eligibility for loans based on that entity's credit quality, rather than requiring a particular level of collateral, especially in the case of large corporate borrowers. As a result, the ratio of our collateral to non-performing corporate loans is relatively low when compared with our total exposures. For secured consumer loans, however, we generally impose limits on loan amounts based on the collateral we receive. See "—Consumer Banking—Lending Activities."

We reflect this collateral level when we estimate the future cash flow for our loans, which we calculate using a discounted cash flow method. With respect to loans to borrowers that we do not believe will be going concerns in the future, the lower collateral ratio has a direct effect on cash flow estimates and results in a higher level of allowances. With respect to loans to borrowers that we expect to be going concerns, the lower collateral ratio has an effect on cash flow estimates but we also consider other factors, including future operating income and future asset disposals and restructuring, in determining allowance levels. Accordingly, for these latter borrowers, the effect of lower collateral levels on allowances is mitigated by other characteristics of the borrower, and that lower collateral level will not necessarily result in a higher level of allowances.

# Sales of Non-Performing Loans

The overall asset quality of our loan portfolio is affected by sales of non-performing loans. These sales have been made primarily to third parties. The following table sets forth information regarding our sales of loans for the periods indicated:

	Year Ended December 31,										
		2020			2021			2022			
Purchaser	Net Carrying Amount <sup>(1)</sup>	Sale Price	Gain (Loss)	Net Carrying Amount <sup>(1)</sup>	Sale Price			Sale Price	Gain (Loss)		
				(in bil	llions of W	on)					
KAMCO	₩ 14	₩ 14	₩—	₩ —	₩ —	₩ —	₩ —	₩ —	₩—		
Structured companies	₩ 60	₩ 67	₩ 7	₩ 61	₩ 76	₩ 15	₩ 26	₩ 32	₩ 6		
UAMCO <sup>(2)</sup>	87	98	11	90	105	15	85	113	28		
Others $^{(3)}$	29_	54	25	36	114	78	27	78	51		
Total	₩190	₩233	₩43	₩187	₩295	₩108	₩138	₩223	₩85		

<sup>(1)</sup> Net carrying amount represents the net value of non-performing loans after deduction of allowance for credit losses on such basis.

<sup>(2)</sup> Woori Bank holds a 14% equity interest in UAMCO.

<sup>(3)</sup> Includes \(\formall \)28 billion of sales to D&CM Corporation in 2021, which may be subject to repurchase by us.

# Allocation and Analysis of Allowances for Credit Losses

The following table presents, as of the dates indicated, the allocation of our allowances for credit losses by loan type:

	As of December 31,				
	202	1	202	2022	
	(in billion	s of Won, e	except perce	entages)	
Domestic					
Corporate:					
Commercial and industrial			<b>₩</b> 1,148	49.2%	
Lease financing	19	1.0	4	0.2%	
Trade financing		4.6	153	6.6%	
Other commercial	60	3.2	51	2.2%	
Total corporate	1,063	56.3	1,356	58.2%	
Consumer:					
General purpose household <sup>(1)</sup>	389	20.6	450	19.3%	
Mortgage	13	0.7	15	0.6%	
Total consumer	402	21.3	465	19.9%	
Credit cards	255	13.5	303	13.0%	
Total domestic	1,720	91.1	2,124	91.1%	
Foreign					
Corporate:					
Commercial and industrial	123	6.5	139	6.0%	
Trade financing	1	0.1	2	0.1%	
Other commercial	4	0.2	6	0.3%	
Total corporate	128	6.8	147	6.4%	
Consumer	39	2.1	63	2.7%	
Total foreign	167	8.9	210	9.1%	
Total allowance for credit losses <sup>(2)</sup>	₩1,887	100.0%	₩2,334	100.0%	

<sup>(1)</sup> Includes home equity loans.

<sup>(2)</sup> Not including due from banks and other financial assets.

The following table presents an analysis of the changes in our allowances for credit losses for each of the years indicated:

	Year ended December			er 31,	31,		
		2020 2021				2022	
		(in	billi	ons of Wo	n)		
Balance at the beginning of the year <sup>(1)</sup>	₩	1,575	₩	1,909	₩	1,887	
Bad debt expenses for the period		787		555		861	
Changes due to business combination		175		28		6	
Increase on repurchases of non-performing loans							
Domestic:							
Corporate: Commercial and industrial		(171)		(157)		(122)	
Lease financing		(1/1)		(2)		(122)	
Trade financing		(23)		(12)		(4)	
Other commercial		(6)		(3)		(2)	
					_		
Total corporate		(200)		(174)		(129)	
Consumer:  General purpose household <sup>(1)</sup>		(178)		(172)		(161)	
Mortgage		(4)		(173)		(101)	
				(1.70)		(1.61)	
Total consumer		(182)		(173)		(161)	
Credit cards		(246)		(220)		(220)	
Total domestic		(628)		(567)		(510)	
Foreign		(43)		(61)		(13)	
Total gross charge-offs		(671)		(628)		(523)	
Recoveries: Domestic:							
Corporate:						40	
Commercial and industrial		54		47		48	
Lease financing				_		_	
Trade financing		4 8		3 5		3 4	
Other commercial							
Total corporate		66		55		55	
Consumer:		20		41		20	
General purpose household <sup>(1)</sup>		39		41		38	
Mortgage		32		34		32	
Total consumer		71		75		70	
Credit cards		66		66		54	
Total domestic		203		196		179	
Foreign:		_				1	
Total recoveries		203		196		180	
Net charge-offs		(468)		(432)		(343)	
Disposal		(76)		(105)		(68)	
Foreign exchange translation effects		(3)		6		(1)	
Others <sup>(2)</sup>		(81)		(75)		(8)	
Adjustment from discontinuing operations							
Balance at the end of the year	_	<b>¥</b> 1,909	<i>=</i>	<del>¥</del> 1,886	<del>-</del>	₩2,334	
Ratio of net charge-offs during the period to average loans outstanding during the period		0.2%	, D	0.2%	, D	0.1%	

<sup>(1)</sup> Includes home equity loans.

<sup>(2)</sup> Includes unwinding of discount.

# Loan Charge-Offs

The credit approval process we have implemented includes assessing credit risk before extending loans and monitoring outstanding loans, in order to minimize loans that must be charged off. To the extent charge-offs are required, we follow charge-off policies aimed at maximizing accounting transparency, minimizing any waste of resources in managing loans which have a low probability of being collected and reducing our non-performing loan ratio.

Loans To Be Charged Off. We charge off loans that are deemed to be uncollectible by virtue of their falling under any of the following categories:

- loans for which collection is not foreseeable due to insolvency, bankruptcy, compulsory execution, disorganization, dissolution or the shutting down of the business of the debtor;
- loans for which collection is not foreseeable due to the death or disappearance of the debtor;
- loans for which expenses of collection exceed the collectable amount;
- loans on which collection is not possible through legal or any other means;
- payments in arrears in respect of credit cards (excluding credit card loans) that are overdue for more than six months;
- payments outstanding on corporate and consumer loans that are overdue for more than 12 months; or
- the portion of loans classified as estimated loss, net of any recovery from collateral, which is deemed to be uncollectible.

Procedure for Charge-off Approval. In order to charge off corporate loans, in the case of Woori Bank, an application for a charge-off must be submitted by a branch to the Credit Management and Collection Department promptly and, in any event, within one month after the corporate loan is classified as estimated loss. The department evaluates and approves the application. Then, Woori Bank must seek an approval from the Financial Supervisory Service for its charge-offs, which is typically granted. At the same time, Woori Bank refers the approval of the charge-off by the Credit Management and Collection Department to its Audit Committee for review to ensure compliance with its internal procedures for charge-offs, which include consultations with the branch submitting the charge-off application. Once Woori Bank receives approval from the Financial Supervisory Service, Woori Bank must also obtain approval from its senior management to charge off those loans.

With respect to consumer loans and credit card balances, we follow a different process to determine which consumer loans and credit card balances should be charged off, based on the length of time those loans or balances are past due. We charge off consumer loans which are 12 months overdue and credit card balances which are six months overdue and have been classified as estimated loss.

Treatment of Loans Charged Off. Once loans are charged off, we classify them as charged-off loans. In the case of Woori Bank, these loans are then transferred to our wholly-owned subsidiary, Woori Credit Information, which is in charge of collections. It will attempt to recover amounts owed or to sell these loans to third parties.

In the case of collateralized loans, our general policy is to petition a court to foreclose and sell the collateral through a court-supervised auction if a collateralized loan becomes overdue for more than three months. If a debtor still fails to repay and the court grants its approval for foreclosure, we will sell the collateral and recover the principal amount and interest accrued up to the amount of the proceeds from such sale, net of expenses incurred for the sale.

### Credit Rehabilitation Programs for Delinquent Consumer Borrowers

In light of the rapid increase in delinquencies in credit card and other consumer credit in recent years, and concerns regarding potential social issues posed by the growing number of individuals with bad credit, the Korean government has implemented a number of measures intended to support the rehabilitation of the credit of

delinquent consumer borrowers. These measures may affect the amount and timing of our collections and recoveries on our delinquent consumer credits.

In 2002, the Financial Services Commission established the Credit Counseling and Recovery Service based upon an agreement among approximately 160 financial institutions in Korea. Upon application to the Credit Counseling and Recovery Service and approval by creditor financial institutions representing a majority of the outstanding unsecured debt and two-thirds of the outstanding secured debt, a qualified "credit delinquent person" with outstanding debts to two or more financial institutions in an aggregate amount not exceeding \(\formalfont{W}500\) million may participate in an individual work-out program designed to restructure such person's debt and rehabilitate such person's credit. The aggregate amount of loans of Woori Bank which became subject to such individual work-out programs in 2022 was \(\formalfont{W}137\) billion. In 2022, Woori Bank recovered approximately \(\formalfont{W}12\) billion with respect to its loans subject to such individual work-out programs.

Under the Korean Debtor Recovery and Bankruptcy Law, a qualified individual debtor with outstanding debts in an aggregate amount not exceeding threshold amounts of \(\formall^4\)1 billion of unsecured debt and/or \(\formall^{1.5}\) billion of secured debt may restructure his or her debts through a court-supervised debt restructuring that is binding on creditors. The aggregate amount of loans of Woori Bank which became subject to such court-supervised debt restructuring in 2022 was \(\formall^{304}\)304 billion. In 2022, Woori Bank recovered \(\formall^{67}\) billion with respect to its loans subject to such court-supervised debt restructuring.

In September 2008, to support consumer borrowers with low credit scores, the Financial Services Commission established the Credit Rehabilitation Fund to purchase from creditors the loans of such borrowers that are in default and to provide guarantees so that such loans may be refinanced at lower rates. The Credit Rehabilitation Fund provides support to (i) individuals with low credit scores who are in default on loans not exceeding \(\fomathbf{W}50\) million in principal amount in the aggregate (which requirement will be waived for individuals who are "basic living welfare recipients") for a period of three months or more and (ii) individuals with low credit scores ranging from category 6 to 10 who are in default on loans not exceeding \(\fomathbf{W}30\) million in principal amount in the aggregate (which requirement will be waived for individuals who are basic living welfare recipients) and the interest rate of which is 30% or more.

In March 2009, the Financial Services Commission requested Korean banks, including Woori Bank, to establish a "pre-workout program," including a credit counseling and recovery service, for retail borrowers with outstanding short-term debt. Under the pre-workout program, which has been in operation since April 2009, maturity extensions and/or interest rate adjustments are provided to retail borrowers with total loans of \text{\text{\$\psi}1.5} billion or less (consisting of no more than \text{\$\psi}500 million of unsecured loans and \text{\$\psi}1 billion of secured loans) who are in arrears on their payments for more than 30 days but less than 90 days or for retail borrowers with an annual income of \text{\$\psi}40 million or less who have been in arrears on their payments for 30 days or more on an aggregate basis for the 12 months prior to their application, among others. The aggregate amount of consumer credit Woori Bank provided which became subject to the pre-workout program in 2022 was \text{\$\psi}53\$ billion. See "Item 3.D. Risk Factors—Risks relating to our consumer credit portfolio—We may experience increases in delinquencies in our consumer loan and credit card portfolios."

*Net Charge-Offs*. The following table presents information regarding our ratios of net charge-offs to average loans outstanding for each of the years indicated:

	Year ended December 31,									
		2020			2021		2022			
	Average loans	Net charge-offs	Net charge- offs/Average loans	Average loans	Net charge-offs	Net charge- offs/Average loans	Average loans	Net charge-offs	Net charge- offs/Average loans	
				(in	billions of V	Von)				
Loans in local currency	₩233,362	₩238	0.10%	₩262,345	₩224	0.09%	₩280,518	₩148	0.05%	
Loans in foreign currencies	19,977	31	0.16	22,194	44	0.20	27,627	11	0.04	
Domestic banker's usance	2,855	_	0.00	3,013	_	0.00	3,653	_	0.00	
Credit card accounts	8,215	180	2.19	9,203	155	1.68	10,035	167	1.66	
Bills bought in foreign										
currencies	6,304	_	0.00	5,878	_	0.00	6,361	_	0.00	
Bills bought in local currency	121	_	0.00	158	_	0.00	(37)	_	0.00	
Factoring receivables	33	_	0.00	26	_	0.00	34	_	0.00	
Advances for customers on										
guarantees	18	13	72.22	28	5	17.86	24	1	4.17	
Private placement bonds	294	5	1.70	504	_	0.00	512	_	0.00	
Securitized loans	2,269		0.00	2,673	_	0.00	2,992	10	0.33	
Call loans	2,618		0.00	2,185	_	0.00	3,463	_	0.00	
Bonds purchased under resale										
agreements	2,666		0.00	3,244	_	0.00	3,220	_	0.00	
Financial lease receivables	373		0.00	909	_	0.00	1,364	1	0.07	
Installment financial bonds	1,076	1	0.09	2,378	4	0.17	3,049	5	0.16	
Others			0.00			0.00			0.00	
Total net charge-offs	₩280,181	₩468	0.17%	₩314,738	₩432	0.14%	₩342,815	₩343	0.10%	

### Securities Investment Portfolio

Investment Policy

We invest in and trade Won-denominated securities and, to a lesser extent, foreign currency-denominated securities for our own account to:

- maintain asset stability and diversification;
- maintain adequate sources of back-up liquidity to match funding requirements; and
- supplement income from core lending activities.

In making securities investments, we take into account a number of factors, including external broker analyses and internal assessments of macroeconomic trends, industry analysis, credit evaluation, maturity and trading history in determining whether to make a particular investment.

Our investments in debt securities include primarily bonds issued by government-related entities, as well as corporate bonds that have been guaranteed by banks (other than merchant banks), government-related funds or privately capitalized funds that we consider to have a low credit risk.

Our securities investments are subject to various regulations, including limitations prescribed under the Financial Holding Company Act and the Bank Act. Under these regulations, a financial holding company may not own (i) more than 5% of the total issued and outstanding shares of another finance-related company, (ii) any shares of its affiliates, other than its direct or indirect subsidiaries, or (iii) any shares of a non-finance-related company. In addition, a bank must limit its investments in equity securities and bonds with a maturity in excess of three years (other than monetary stabilization bonds issued by the Bank of Korea and Korean government bonds) to 100% of the sum of its total Tier I and Tier II capital amount (less any capital deductions). A bank is also generally prohibited from acquiring more than 15% of the shares with voting rights issued by any other corporation, subject to certain exceptions. Pursuant to the Bank Act, a bank and its trust accounts are prohibited from acquiring the shares of a major shareholder (for the definition of "major shareholder," see "—Supervision

and Regulation—Principal Regulations Applicable to Banks—Financial Exposure to Any Individual Customer or Major Shareholder") of that bank in excess of an amount equal to 1% of the sum of the bank's Tier I and Tier II capital (less any capital deductions). Further information on the regulatory environment governing our investment activities is set out in "—Supervision and Regulation—Principal Regulations Applicable to Financial Holding Companies—Liquidity," "—Supervision and Regulation—Principal Regulations Applicable to Financial Holding Companies—Restrictions on Shareholdings in Other Companies," "—Supervision and Regulation—Principal Regulations Applicable to Banks—Liquidity" and "—Supervision and Regulation—Principal Regulations Applicable to Banks—Restrictions on Shareholdings in Other Companies."

Our investments in foreign currencies are subject to certain limits and restrictions specified in our internal guidelines relating to country exposure, a single issuer and type of security exposure, and total investments by individual business groups.

## Maturity Analysis

The following table categorizes our debt securities by maturity and weighted average yield as of December 31, 2022:

	As of December 31, 2022									
	Within	1 year	Over 5 but Within 10 years Over			10 years	Total			
	Amount	Weighted Average Yield <sup>(1)</sup>		(in billions Weighted Average Yield <sup>(1)</sup>	,	except per Weighted Average Yield <sup>(1)</sup>	8 /	Weighted Average	Amount	Weighted Average Yield <sup>(1)</sup>
Financial assets at fair value through other comprehensive										
income:										
Korean treasury and government										
agencies	<b>₩</b> 1,661	1.18%	₩ 3,515	1.39%	<b>₩</b> 312	1.74%	₩ —	%	<b>₩</b> 5,488	1.34%
Financial institutions	9,284	1.82	7,587	2.30	_	_	_		16,871	2.04
Corporate	1,772	1.36	2,160	2.13	112	2.54	_		4,044	1.80
Foreign currency										
bonds	2,572	2.78	2,723	3.05	61	4.87	288	3.91	5,644	2.99
Securities loaned		_	99	2.37		_		_	99	2.37
Total	₩15,289	1.86%	₩16,084	2.21%	₩ 485	2.32%	₩288	3.91%	₩32,146	2.06%
Financial assets at										
amortized cost: Korean treasury and government										
agencies	₩ 2,287	2.07%	₩ 7,727	1.33%	₩ 68	1.41%	₩ —	%	₩10,082	1.50%
Financial institutions	3,624	3.57	6,632	3.89	24	3.53	_	_	10,280	3.78
Corporate	531	2.51	3,858	2.21	1,694	2.54	152	2.21	6,235	2.32
Foreign currency										
bonds	750	2.16	892	2.16	10	2.91	20	3.98	1,672	2.18
Total	₩ 7,192	2.87%	₩19,109	2.43%	₩1,796	2.51%	₩172	2.42%	₩28,269	2.55%

<sup>(1)</sup> The weighted average yield for the portfolio represents the yield to maturity for each individual security, weighted using its book value (which is the amortized cost in the case of financial assets at amortized cost and the fair value in the case of financial assets at fair value through other comprehensive income).

# **Funding**

We fund our lending and other activities using various sources, both domestic and foreign. Our primary funding strategy is to maintain stable and low-cost funding. We have in the past achieved this in part by

increasing the average balances of low-cost customer deposits, in particular demand deposits and savings deposits.

Customer deposits are our principal funding source. Customer deposits accounted for 80.9% of our total funding as of December 31, 2021 and 81.2% of our total funding as of December 31, 2022.

We also acquire funding through the following sources:

- long-term debt, including the issuance of senior and subordinated debentures and borrowings from government-affiliated funds and entities and other financial institutions;
- short-term borrowings, including borrowings from our trust accounts and from the Bank of Korea, and call money; and
- the issuance of hybrid securities, including bond-type hybrid securities.

As of December 31, 2022, 84.7% of our total funding was denominated in Won.

### **Deposits**

Although the majority of our deposits are short-term, it has been our experience that the majority of our depositors generally roll over their deposits at maturity, providing us with a stable source of funding. See "Item 3.D. Risk Factors—Other risks relating to our business—Our funding is highly dependent on short-term deposits, which dependence may adversely affect our operations." The following table shows the average balances of our deposits and the average costs of our deposits for the periods indicated:

	For the year ended December 31,							
	2020	)	2021	1	2022			
	Average Balance <sup>(1)</sup>	Average Cost	Average Balance <sup>(1)</sup>	Average Cost	Average Balance <sup>(1)</sup>	Average Cost		
		itages)						
Demand deposits	₩ 10,110	0.48%	₩ 14,634	0.72%	₩ 12,875	0.68%		
Time deposits and savings deposits <sup>(2)</sup>	225,563	0.91	243,708	0.61	258,594	1.24		
Certificates of deposit	1,677	1.31	2,858	0.94	5,263	2.19		
Other deposits <sup>(3)</sup>	34,861	1.03	38,374	0.73	47,978	1.48		
Average total deposits	₩272,211	0.91%	₩299,574	0.64%	₩324,710	1.27%		

<sup>(1)</sup> Average balances are based on daily balances for Woori Bank and on quarterly balances for all of our other subsidiaries and our structured companies.

For a description of our retail deposit products, see "—Business—Consumer Banking—Lending Activities—Mortgage and Home Equity Lending" and "—Business—Consumer Banking—Deposit-Taking Activities."

The Depositor Protection Act provides insurance for certain deposits of banks in Korea through a deposit insurance system. See "—Supervision and Regulation—Principal Regulations Applicable to Banks—Deposit Insurance System." The KDIC insures a maximum of \wodeling 50 million per individual for deposits and interest in a single financial institution, regardless of when the deposits were made or the size of the deposits. In addition to the insured deposits applicable in Korea, the insured status for deposits in our foreign subsidiaries are determined based on the individual insurance limits enacted within local regulations, and are thus subject to differing

<sup>(2)</sup> Savings deposits are deposits that allow the customers to deposit and withdraw funds at any time and accrue interest at a fixed rate set by us depending upon the period and amount of deposit.

<sup>(3)</sup> Mutual installment deposits are interest-bearing deposits offered by us, which enable customers to become eligible to apply for loans secured by such deposits while they maintain an account with us. In order to qualify to apply for such a loan, a customer must make required periodic deposits to the mutual installment account for a contracted term of less than five years. Any such loan will be secured in an amount up to the holder's mutual installment deposit and will be subject to the same loan underwriting policy we apply for other secured loans. For the portion of the loan, if any, that is not secured, we apply the same loan underwriting policy as we would for other unsecured loans.

national deposit insurance regimes. Our total uninsured deposits across all jurisdictions amounted to \textbf{\psi}248,587 billion as of December 31, 2021 and \textbf{\psi}264,351 billion as of December 31, 2022.

# Uninsured Time Deposits

Our uninsured time deposits refer to our uninsured deposits that have a fixed maturity, including time deposits and installment savings deposits. The following table presents, as of December 31, 2022, the remaining maturities of our uninsured time deposits:

	As of December 31, 2022
	(in billions of Won)
Maturing within three months	₩ 66,582
After three but within six months	29,296
After six but within 12 months	45,910
After 12 months	9,591
Total	₩151,379

### **Supervision and Regulation**

# Principal Regulations Applicable to Financial Holding Companies

General

The Financial Holding Company Act, last amended on December 31, 2022, regulates Korean financial holding companies and their subsidiaries. The entities that regulate and supervise Korean financial holding companies and their subsidiaries are the Financial Services Commission and the Financial Supervisory Service.

The Financial Services Commission exerts direct control over financial holding companies pursuant to the Financial Holding Company Act. Among other things, the Financial Services Commission approves the establishment of financial holding companies, issues regulations on the capital adequacy of financial holding companies and their subsidiaries, and drafts regulations relating to the supervision of financial holding companies.

Following the instructions and directives of the Financial Services Commission, the Financial Supervisory Service supervises and examines financial holding companies and their subsidiaries. In particular, the Financial Supervisory Service sets requirements relating to Korean financial holding companies' liquidity and capital adequacy ratios and establishes reporting requirements within the authority delegated under the Financial Services Commission regulations. Financial holding companies must submit quarterly reports to the Financial Supervisory Service discussing business performance, financial status and other matters identified in the Enforcement Decree of the Financial Holding Company Act.

Under the Financial Holding Company Act, a financial holding company is a company which primarily engages in controlling its subsidiaries by holding equity stakes in them equal in aggregate to at least 50% of the financial holding company's aggregate assets based on its balance sheet as of the end of the immediately preceding fiscal year. A company is required to obtain approval from the Financial Services Commission to become a financial holding company.

A financial holding company may engage only in controlling the management of its subsidiaries, as well as certain ancillary activities including:

- financially supporting its direct and indirect subsidiaries;
- raising capital necessary for investment in its subsidiaries or providing financial support to its direct and indirect subsidiaries;
- supporting the business of its direct and indirect subsidiaries, including the development and marketing of financial products;

- providing data processing, legal, accounting and other resources and services that have been commissioned by its direct and indirect subsidiaries so as to support their operations; and
- any other businesses exempted from authorization, permission or approval under the applicable laws and regulations.

The Financial Holding Company Act requires every financial holding company (other than a financial holding company that is controlled by another financial holding company) and its subsidiaries to obtain prior approval from the Financial Services Commission before acquiring control of another company or to file a report with the Financial Services Commission within 30 days thereafter in certain cases (including acquiring control of another company whose assets are less than \text{\coloredge}100 billion as of the end of the immediately preceding fiscal year). In addition, the Financial Services Commission must grant permission to liquidate or to merge with any other company before the liquidation or merger. A financial holding company must report to the Financial Services Commission when certain events, including the following, occur:

- · when the largest shareholder changes;
- in the case of a bank holding company, when a major investor changes;
- when the shareholding of the controlling shareholder (i.e., the "largest shareholder" or a "principal shareholder," each as defined in the Financial Holding Company Act) or a person who has a "special relationship" with such controlling shareholder (as defined in the Enforcement Decree of the Financial Holding Company Act) changes by 1% or more of the total issued and outstanding voting shares of the financial holding company;
- · when it changes its corporate name;
- when there is a cause for its dissolution;
- when it or its subsidiaries cease to control any of their respective direct or indirect subsidiaries by disposing of their shares of such direct or indirect subsidiary; and
- other cases prescribed by the Enforcement Decree of the Financial Holding Company Act, in which the soundness of management of a financial holding company may be undermined.

### Capital Adequacy

The Financial Holding Company Act does not provide for a minimum paid-in capital requirement related to financial holding companies. However, all financial holding companies are required to maintain a specified level of solvency. In addition, with respect to the allocation of net profit earned in a fiscal term, a financial holding company must set aside in its legal reserve an amount equal to at least 10% of its net income after tax each time it pays dividends on its net profits earned until its legal reserve reaches at least the aggregate amount of its paid-in capital.

A bank holding company, which is a financial holding company controlling banks or other financial institutions conducting banking business as prescribed in the Financial Holding Company Act, is required to maintain a total minimum consolidated capital adequacy ratio of 11.5% (including applicable additional capital buffers and requirements as described below). "Consolidated capital adequacy ratio" is defined as the ratio of equity capital as a percentage of risk-weighted assets on a consolidated basis, determined in accordance with the Financial Services Commission requirements that have been formulated based on Bank of International Settlements, or BIS, standards. "Equity capital," as applicable to bank holding companies, is defined as the sum of common equity Tier I capital, additional Tier I capital and Tier II capital less any deductible items, each as defined under the Regulation on the Supervision of Financial Holding Companies. "Risk-weighted assets" is defined as the sum of credit risk-weighted assets, market risk-weighted assets and operational risk-weighted assets.

Pursuant to regulations promulgated by the Financial Services Commission commencing in 2013 to implement Basel III, Korean bank holding companies were required to maintain a minimum ratio of common

equity Tier I capital to risk-weighted assets of 3.5% and Tier I capital to risk-weighted assets of 4.5% from December 1, 2013, which minimum ratios were increased to 4.0% and 5.5%, respectively, from January 1, 2014 and increased further to 4.5% and 6.0%, respectively, from January 1, 2015. Such requirements are in addition to the pre-existing requirement for a minimum ratio of Tier I and Tier II capital (less any capital deductions) to risk-weighted assets of 8.0%, which remains unchanged. The amended regulations also require an additional capital conservation buffer of 2.5%, as well as a potential counter-cyclical capital buffer of up to 2.5%, which is determined on a quarterly basis by the Financial Services Commission. Furthermore, bank holding companies designated as domestic systemically important banks for 2023 by the Financial Services Commission are subject to an additional capital requirement of 1.0%.

# Liquidity

All financial holding companies are required to match the maturities of their assets and liabilities on a non-consolidated basis in accordance with the Financial Holding Company Act in order to ensure liquidity. Financial holding companies must:

- maintain a Won liquidity ratio (defined as Won assets due within one month, including marketable securities, divided by Won liabilities due within one month) of not less than 100% on a non-consolidated basis;
- maintain a foreign currency liquidity ratio (defined as foreign currency liquid assets due within three months divided by foreign currency liabilities due within three months) of not less than 80% on a non-consolidated basis (except that such requirement is not applicable to a financial holding company whose foreign currency liabilities constitute less than 1% of its total assets);
- maintain a ratio of foreign currency liquid assets due within seven days less foreign currency liabilities due within seven days as a percentage of total foreign currency assets of not less than 0% on a non-consolidated basis (except that such requirement is not applicable to a financial holding company whose foreign currency liabilities constitute less than 1% of its total assets);
- maintain a ratio of foreign currency liquid assets due within a month less foreign currency liabilities due within a month as a percentage of total foreign currency assets of not less than negative 10% on a non-consolidated basis (except that such requirement is not applicable to a financial holding company whose foreign currency liabilities constitute less than 1% of its total assets); and
- make quarterly reports regarding their Won liquidity and foreign currency liquidity to the Financial Supervisory Service.

Financial Exposure to Any Individual Customer and Major Investor

Subject to certain exceptions, the aggregate credit (as defined in the Financial Holding Company Act, the Bank Act, the Financial Investment Services and Capital Markets Act, the Insurance Business Act, the Mutual Savings Bank Act and the Specialized Credit Financial Business Act, respectively) of a financial holding company and its direct and indirect subsidiaries that are banks, merchant banks, financial investment companies, insurance companies, savings banks or specialized credit financial business companies (which we refer to as "Financial Holding Company Total Credit") to a single group of companies that belong to the same conglomerate as defined in the Monopoly Regulations and Fair Trade Act will not be permitted to exceed 25% of net aggregate equity capital (as defined below).

"Net aggregate equity capital" is defined under the Enforcement Decree of the Financial Holding Company Act as the sum of:

- (1) in case of a financial holding company, the capital amount as defined in Article 24-3(7), Subparagraph 2 of the Enforcement Decree of the Financial Holding Company Act;
- (2) in case of a bank, the capital amount as defined in Article 2(1), Subparagraph 5 of the Bank Act;
- (3) in case of a merchant bank, the capital amount as defined in Article 342(1) of the Financial Investment Services and Capital Markets Act;

- (4) in case of a financial investment company, the capital amount as defined in Article 37(3) of the Enforcement Decree of the Financial Investment Services and Capital Markets Act;
- (5) in case of an insurance company, the capital amount as defined in Article 2, Subparagraph 15 of the Insurance Business Act;
- (6) in case of a savings bank, the capital amount as defined in Article 2, Subparagraph 4 of the Mutual Savings Bank Act; and
- (7) in case of a specialized credit financial business company, the capital amount as defined in Article 2, Subparagraph 19 of the Specialized Credit Financial Business Act;

# less the sum of:

- (1) the amount of shares of direct and indirect subsidiaries held by the financial holding company;
- (2) the amount of shares that are cross-held by each direct and indirect subsidiary that is a bank, merchant bank, financial investment company, insurance company, savings bank or specialized credit financial business company; and
- (3) the amount of shares of a financial holding company held by such direct and indirect subsidiaries that are banks, merchant banks, financial investment companies, insurance companies, savings banks or specialized credit financial business companies.

The Financial Holding Company Total Credit to a single individual or judicial person may not exceed 20% of the net aggregate equity capital. In addition, the Financial Holding Company Total Credit to a shareholder holding (together with the persons who have a "special relationship" with the shareholder, as defined in the Enforcement Decree of the Financial Holding Company Act) in aggregate more than 10% of the total issued and outstanding voting shares of a financial holding company generally may not exceed the lesser of (x) 25% of the net aggregate equity capital and (y) the amount of the equity capital of the financial holding company multiplied by the shareholding ratio of the shareholder (together with the persons who have a special relationship with the shareholder).

Further, the total sum of credits (as defined in the Financial Holding Company Act, the Bank Act, the Financial Investment Services and Capital Markets Act, the Insurance Business Act, the Mutual Savings Bank Act and the Specialized Credit Financial Business Act, respectively) of a bank holding company and its direct and indirect subsidiaries that are banks, merchant banks, financial investment companies, insurance companies, savings banks or specialized credit financial business companies as applicable (which we refer to as "Bank Holding Company Total Credit") extended to a "major investor" (as defined below) (together with the persons who have a special relationship with that major investor) will not be permitted to exceed the lesser of (x) 25% of the net aggregate equity capital and (y) the amount of the equity capital of the bank holding company multiplied by the shareholding ratio of the major investor, except for certain cases.

### "Major investor" is defined as:

- a shareholder holding (together with persons who have a special relationship with that shareholder) in excess of 10% (or in the case of a bank holding company controlling regional banks only, 15%) in the aggregate of the bank holding company's total issued and outstanding voting shares; or
- a shareholder holding (together with persons who have a special relationship with that shareholder) more than 4% in the aggregate of the total issued and outstanding voting shares of the bank holding company controlling nationwide banks, where the shareholder is the largest shareholder or has actual control over the major business affairs of the bank holding company through, for example, appointment and dismissal of the officers pursuant to the Enforcement Decree of the Financial Holding Company Act.

In addition, the total sum of the Bank Holding Company Total Credit granted to all of a bank holding company's major investor must not exceed 25% of the bank holding company's net aggregate equity capital. Furthermore, any bank holding company that, together with its direct and indirect subsidiaries, intends to extend

credit to the bank holding company's major investor in an amount equal to or exceeding the lesser of (x) the amount equivalent to 0.1% of the net aggregate equity capital and (y) \$\forall 5\$ billion, in any single transaction, must obtain prior unanimous board resolutions and then, immediately after providing the credit, must file a report to the Financial Services Commission and publicly disclose the filing of the report.

Restrictions on Transactions Among Direct and Indirect Subsidiaries and Financial Holding Company

Generally, a direct or indirect subsidiary of a financial holding company may not extend credits (excluding the amount of corporate credit card payments issued by a direct or indirect subsidiary of a financial holding company that is engaged in the banking business) to that financial holding company. In addition, a direct or indirect subsidiary of a financial holding company may not extend credits (excluding the amount of corporate credit card payments issued by a direct or indirect subsidiary of a financial holding company that is engaged in the banking business) to other direct or indirect subsidiaries of the financial holding company in excess of 10% of its capital amount on an individual basis or to those subsidiaries in excess of 20% of its capital amount on an aggregate basis. The subsidiary extending the credit must also obtain an adequate level of collateral depending on the type of such collateral from the other subsidiaries unless the credit is otherwise approved by the Financial Services Commission. The adequate level of collateral for each type of collateral is as follows:

- (1) for deposits and installment savings, obligations of the Korean government or the Bank of Korea, obligations guaranteed by the Korean government or the Bank of Korea, obligations secured by securities issued or guaranteed by the Korean government or the Bank of Korea, 100% of the credit extended;
- (2) for obligations of municipal governments under the Local Autonomy Act, local public enterprise under the Local Public Enterprises Act and investment institutions and other quasi-investment institutions under the Basic Act on the Management of Government-Invested Institution or for obligations guaranteed by, or secured by the securities issued or guaranteed by, the aforementioned entities pursuant to the relevant regulations, 110% of the credit extended; and
- (3) for any property other than those set forth in paragraphs (1) and (2) above, 130% of the credit extended.

Subject to certain exceptions, a direct or indirect subsidiary of a financial holding company is prohibited from owning the shares of any other direct or indirect subsidiaries (other than those directly controlled by that direct or indirect subsidiary) under the common control of the financial holding company.

Subject to certain exceptions, a direct or indirect subsidiary of a financial holding company is also prohibited from owning the shares of the financial holding company controlling that direct or indirect subsidiary. The transfer of certain assets classified as precautionary or below between a financial holding company and its direct or indirect subsidiary or between the direct and indirect subsidiaries of a financial holding company is prohibited except for:

- (1) transfers to a special purpose company, or entrustment with a trust company, for an asset-backed securitization transaction under the Asset-Backed Securitization Act;
- (2) transfers to a mortgage-backed securities issuance company for a mortgage securitization transaction;
- (3) transfers or in-kind contributions to a corporate restructuring vehicle under the Corporate Restructuring Investment Companies Act; and
- (4) transfers to a corporate restructuring company under the Industry Promotion Act.

### Disclosure of Management Performance

For the purpose of protecting the depositors and investors in the subsidiaries of financial holding companies, the Financial Services Commission requires financial holding companies to disclose certain material matters including:

(1) financial condition and profit and loss of the financial holding company and its direct and indirect subsidiaries;

- (2) fund-raising by the financial holding company and its direct and indirect subsidiaries and the appropriation of such funds;
- (3) any sanctions levied on the financial holding company and its direct and indirect subsidiaries under the Financial Holding Company Act or any corrective measures or sanctions under the Act on the Structural Improvement of the Financial Industry; and
- (4) occurrence of any non-performing assets or financial incident that may have a material adverse effect, or any other event as prescribed in the applicable regulations.

Restrictions on Shareholdings in Other Companies

Generally, a financial holding company may not own (i) more than 5% of the total issued and outstanding shares of another finance-related company, (ii) any shares of its affiliates, other than its direct or indirect subsidiaries or (iii) any shares of a non-finance-related company.

Restrictions on Shareholdings by Direct and Indirect Subsidiaries

Generally, a direct subsidiary of a financial holding company may not control any other company other than, as an indirect subsidiary of the financial holding company:

- financial institutions established in foreign jurisdictions;
- certain financial institutions which are engaged in any business that the direct subsidiary may conduct without any licenses or permits;
- certain financial institutions whose business is related to the business of the direct subsidiary as
  described by the Enforcement Decree of the Financial Holding Company Act (for example, a bank
  subsidiary may control only credit information companies, debt collection companies, credit card
  companies and financial investment companies with a dealing, brokerage, collective investment,
  investment advice, discretionary investment management and/or trust license);
- certain financial institutions whose business is related to the financial business as prescribed by the regulations of the Ministry of Economy and Finance; and
- certain companies which are not financial institutions but whose business is related to the financial business of the financial holding company as prescribed by the Enforcement Decree of the Financial Holding Company Act (for example, a finance-related research company or a finance-related information technology company).

Acquisition of such indirect subsidiaries by direct subsidiaries of a financial holding company requires prior permission from the Financial Services Commission or the submission of a report to the Financial Services Commission, depending on the types of the indirect subsidiaries and the amount of total assets of the indirect subsidiaries.

Subject to certain exceptions, an indirect subsidiary of a financial holding company may not control any other company. If an indirect subsidiary of a financial holding company had control over another company at the time it became such an indirect subsidiary, the indirect subsidiary is required to dispose of its interest in the other company within two years from such time.

Restrictions on Transactions between a Bank Holding Company and its Major Investor

A bank holding company and its direct and indirect subsidiaries may not acquire (including through their respective trust accounts) shares issued by the bank holding company's major investor in excess of 1% of the net aggregate equity capital (as defined above). In addition, if those entities intend to acquire shares issued by that major investor in any single transaction equal to or exceeding the lesser of (x) the amount equivalent to 0.1% of the net aggregate equity capital and (y) \$5 billion, that entity must obtain prior unanimous board resolutions and then, immediately after the acquisition, file a report to the Financial Services Commission and publicly disclose the filing of the report.

# Restrictions on Ownership of a Financial Holding Company

Under the Financial Holding Company Act, a financial institution generally may not control a financial holding company. In addition, any single shareholder and persons who have a special relationship with that shareholder may acquire beneficial ownership of up to 10% of the total issued and outstanding shares with voting rights of a bank holding company that controls nationwide banks or 15% of the total issued and outstanding shares with voting rights of a bank holding company that controls only regional banks, subject to certain exceptions. Among others, the Korean government and the Korea Deposit Insurance Corporation are not subject to this limit. "Non-financial business group companies" (as defined below), however, may not acquire the beneficial ownership of shares of a bank holding company controlling nationwide banks in excess of 4% of that bank holding company's outstanding voting shares unless they obtain the approval of the Financial Services Commission and agree not to exercise voting rights in respect of shares in excess of the 4% limit, in which case they may acquire beneficial ownership of up to 10%. Any other person (whether a Korean national or a foreign investor) may acquire no more than 10% of total voting shares issued and outstanding of a bank holding company controlling nationwide banks unless they obtain approval from the Financial Services Commission in each instance where the total holding will exceed 10% (or 15% in the case of a bank holding company controlling only regional banks), 25% or 33% of the total voting shares issued and outstanding of that bank holding company controlling nationwide banks.

Furthermore, in the case where a person (including Korean and foreign investors, but excluding certain persons prescribed under the Enforcement Decree of the Financial Holding Company Act) (i) acquires in excess of 4% of the total issued and outstanding voting shares of any bank holding company (other than a bank holding company controlling only regional banks), (ii) becomes the largest shareholder of such bank holding company in which such person has acquired in excess of 4% of the total issued and outstanding voting shares, (iii) changes its shareholding in such bank holding company, in which it has acquired in excess of 4% of the total issued and outstanding voting shares, by 1% or more of the total issued and outstanding voting shares of such bank holding company or (iv) is a private equity fund or an investment purpose company holding in excess of 4% of the total outstanding voting shares of a bank holding company and changes its members or shareholders, such person must file a report on such change with the Financial Services Commission (x) in case of (i) and (iii), by the last day of the month following the month in which such change occurred, or (y) in case of (ii) and (iv), within ten days after the end of the month in which such change occurred.

"Non-financial business group companies" as defined under the Financial Holding Company Act include:

- (1) any same shareholder group where the aggregate net assets of all non-financial business companies belonging to that group equals or exceeds 25% of the aggregate net assets of all members of that group;
- (2) any same shareholder group where the aggregate assets of all non-financial business companies belonging to that group equals or exceeds \(\fomathbf{W}\)2 trillion;
- (3) any mutual fund where a same shareholder group identified in (1) or (2) above beneficially owns and/ or exercises the voting rights of more than 4% of the total issued and outstanding voting shares of that mutual fund:
- (4) any private equity fund (a) where a person falling under any of items (1) through (3) above is a limited partner holding not less than 10% of the total amount of contributions to the private equity fund, or (b) where a person falling under any of items (1) through (3) above is a general partner, or (c) where the total equity of the private equity fund acquired by each affiliate belonging to several enterprise groups subject to the limitation on mutual investment is 30% or more of the total amount of contributions to the private equity fund; or
- (5) the investment purpose company concerned, where a private equity fund falling under item (4) above acquires or holds stocks in excess of 4% of the stock or equity of such company or exercises de facto control over significant managerial matters of such company through appointment or dismissal of executives or in any other manner.

Sharing of Customer Information among Financial Holding Company and its Subsidiaries

Under the Act on Use and Protection of Credit Information, any individual customer's credit information must be disclosed or otherwise used by financial institutions only to determine, establish or maintain existing commercial transactions with them and only after obtaining written consent to use that information. In addition, under the Act on Real Name Financial Transactions and Confidentiality, an individual working at a financial institution may not provide or reveal information or data concerning the contents of financial transactions to other persons unless such individual receives a request or consent in writing from the holder of a title deed, except under certain exceptions stipulated in the Act. Under the Financial Holding Company Act, a financial holding company and its direct and indirect subsidiaries, however, may share certain credit information of individual customers among themselves for internal management purposes outlined in the Enforcement Decree of the Financial Holding Company Act (such as credit risk management, internal control and customer analysis), without the customers' written consent, subject to the methods and procedures for provision of such information set forth therein. A subsidiary financial investment company with a dealing and/or brokerage license of a financial holding company may provide that financial holding company and its other direct and indirect subsidiaries information relating to the aggregate amount of cash or securities that a customer of the financial investment company with a dealing and/or brokerage license has deposited, for internal management purposes outlined in the Enforcement Decree of the Financial Holding Company Act, subject to the methods and procedures for provision of such information set forth therein. Recent amendments to the Financial Holding Company Act, which became effective on November 29, 2014, limit the scope of credit information that may be shared without the customers' prior consent and require certain procedures for provision of customer information as prescribed by the Financial Services Commission. Beginning on May 29, 2015, notice must be given to customers at least once a year regarding (i) the provider of customer information, (ii) the recipient of customer information, (iii) the purpose of providing the information and (iv) the categories of the information provided.

# Principal Regulations Applicable to Banks

The banking system in Korea is governed by the Bank Act and the Bank of Korea Act of 1950, as amended. In addition, Korean banks are subject to the regulations and supervision of the Bank of Korea, the Monetary Policy Board of the Bank of Korea, the Financial Services Commission and its executive body, the Financial Supervisory Service.

The Bank of Korea, established in June 1950 under the Bank of Korea Act, performs the customary functions of a central bank. It seeks to contribute to the sound development of the national economy by price stabilization through establishing and implementing efficient monetary and credit policies with a focus on financial stability. The Bank of Korea acts under instructions of the Monetary Policy Board, the supreme policy-making body of the Bank of Korea.

Under the Bank of Korea Act, the Monetary Policy Board's primary responsibilities are to formulate monetary and credit policies and to determine the operations, management and administration of the Bank of Korea.

The Financial Services Commission (formerly known as the Financial Supervisory Commission), established in April 1998, regulates commercial banks pursuant to the Bank Act, including establishing guidelines on capital adequacy of commercial banks, and promulgates regulations relating to supervision of banks. Furthermore, the Financial Services Commission regulates market entry into the banking business.

The Financial Supervisory Service, established in January 1999, is subject to the instructions and directives of the Financial Services Commission and carries out supervision and examination of commercial banks. In particular, the Financial Supervisory Service sets requirements both for the prudent control of liquidity and for capital adequacy and establishes reporting requirements pursuant to the authority delegated to it under the Financial Services Commission regulations, pursuant to which banks are required to submit annual reports on financial performance and shareholdings, regular reports on management strategy and non-performing loans, including write-offs, and management of problem companies and plans for the settlement of bad loans.

Under the Bank Act, approval to commence a banking business must be obtained from the Financial Services Commission. Commercial banking business is defined as the lending of funds acquired predominantly from the acceptance of demand deposits for a period not exceeding one year or subject to the limitation established by the Financial Services Commission, for a period between one year and three years. Long-term financing business is defined as the lending, for periods in excess of one year, of funds acquired predominantly from paid-in capital, reserves or other retained earnings, the acceptance of time deposits with maturities of at least one year, or the issuance of debentures or other bonds. A bank wishing to enter into any business other than banking businesses, such as a trust business, must file a report to the Financial Services Commission. For businesses that are subject to license or approval requirements under applicable laws, such as an approval to commence a trust business under the Financial Investment Services and Capital Markets Act, such report must be filed concurrently with a relevant license or approval application to the Financial Services Commission. In addition, approval to merge with any other banking institution, to liquidate, spin off, or close a banking business or to transfer all or a part of a business must be obtained from the Financial Services Commission.

If the Financial Services Commission deems a bank's financial condition to be unsound or if a bank fails to meet the applicable capital adequacy ratio set forth under Korean law, the Financial Services Commission may order:

- admonitions or warnings with respect to the bank or its officers;
- · capital increases or reductions;
- assignments of contractual rights and obligations relating to financial transactions;
- a suspension of performance by its officers of their duties and the appointment of receivers;
- disposals of property holdings or closures of subsidiaries or branch offices or downsizing;
- stock cancellations or consolidations;
- suspension of performance of duties of officers and appointment of managers;
- transfer of all or part of a business;
- mergers with other financial institutions;
- acquisition of such bank by a third party; and/or
- suspensions of a part or all of its business operations (not more than six months, in the case of a suspension of all business operations).

# Capital Adequacy

The Bank Act requires nationwide banks, such as us, to maintain a minimum paid-in capital of \$100 billion and regional banks to maintain a minimum paid-in capital of \$25 billion. All banks, including foreign bank branches in Korea, are also required to maintain a prescribed solvency position. A bank must also set aside in its legal reserve an amount equal to at least 10% of the net income after tax each time it pays dividends on net profits earned until its legal reserve reaches at least the aggregate amount of its paid-in capital.

Under the Detailed Regulation on the Supervision of the Banking Business, the capital of a bank is divided into two categories, Tier I and Tier II capital. Tier I capital (core capital) consists of (i) common equity Tier I capital, including paid-in capital, capital surplus and retained earnings related to common equity and accumulated other comprehensive gains and losses, and (ii) additional Tier I capital, including paid-in capital and capital surplus related to hybrid Tier I capital instruments that, among other things, qualify as contingent capital and are subordinated to subordinated debt. Tier II capital (supplementary capital) consists of, among other things, capital and capital surplus from the issuance of Tier II capital instruments, allowances for loan losses on loans classified as "normal" or "precautionary," subordinated debt and other capital securities which meet the standards prescribed by the governor of the Financial Supervisory Service under Article 26(2) of the Regulation on the Supervision of the Banking Business.

All banks must meet minimum ratios of Tier I and Tier II capital (less any capital deductions) to riskweighted assets, determined in accordance with Financial Services Commission requirements that have been formulated based on BIS standards. These requirements were adopted and became effective in 1996, and were amended effective January 1, 2008 upon the implementation by the Financial Supervisory Service of Basel II. Under such requirements, all domestic banks and foreign bank branches are required to meet a minimum ratio of Tier I and Tier II capital (less any capital deductions) to risk-weighted assets of 8.0%. Commencing in July 2013, the Financial Services Commission promulgated a series of amended regulations implementing Basel III, pursuant to which Korean banks and bank holding companies were required to maintain a minimum ratio of common equity Tier I capital to risk-weighted assets of 3.5% and Tier I capital to risk-weighted assets of 4.5% from December 1, 2013, which minimum ratios were increased to 4.0% and 5.5%, respectively, from January 1, 2014 and increased further to 4.5% and 6.0%, respectively, from January 1, 2015. Such requirements are in addition to the pre-existing requirement for a minimum ratio of Tier I and Tier II capital (less any capital deductions) to risk-weighted assets of 8.0%, which remains unchanged. The amended regulations also require an additional capital conservation buffer of 2.5% in 2022 and 2023, as well as a potential counter-cyclical capital buffer of up to 2.5%, which is determined on a quarterly basis by the Financial Services Commission. Furthermore, we and Woori Bank were each designated as a domestic systemically important bank holding company and a domestic systematically important bank, respectively, for 2022 and 2023 by the Financial Services Commission, which subjects us and Woori Bank to the additional capital requirement of 1.0% in 2022 and 2023.

Under the Detailed Regulation on the Supervision of the Banking Business, the following risk-weight ratios must be applied by Korean banks in respect of home mortgage loans:

- (1) for those banks which adopted a standardized approach for calculating credit risk capital requirements, a risk-weight ratio between 20% and 150% depending on the borrower's source of funding and position in the loan-to-value bracket and whether the loan is considered a high-risk home mortgage loan; and
- (2) for those banks which adopted an internal ratings-based approach for calculating credit risk capital requirements, a risk-weight ratio calculated with reference to the probability of default, loss given default and exposure at default, each as defined under the Detailed Regulation on the Supervision of the Banking Business.

# Liquidity

All banks are required to ensure adequate liquidity by matching the maturities of their assets and liabilities in accordance with the Regulation on the Supervision of the Banking Business. Banks may not invest an amount exceeding 100% of their Tier I and Tier II capital (less any capital deductions) in equity securities and certain other securities with a redemption period of over three years. This stipulation does not apply to Korean government bonds, Monetary Stabilization Bonds issued by the Bank of Korea or debentures and stocks referred to in items 1 and 2, respectively, of paragraph (6) of Article 11 of the Act on the Structural Improvement of the Financial Industry. The Financial Services Commission uses the liquidity coverage ratio as the principal liquidity risk management measure, and currently requires each Korean bank to:

- maintain a liquidity coverage ratio of not less than 100% (temporarily reduced to 92.5% until June 2023 in response to the COVID-19 pandemic);
- maintain a foreign currency liquidity coverage ratio of not less than 80% (temporarily reduced to 70% until June 2022 for purposes of increasing foreign currency liquidity in the Korean financial markets); and
- submit monthly reports with respect to the maintenance of these ratios.

In April 2020, in order to encourage financial institutions to provide financial support to companies adversely affected by COVID-19, the Financial Services Commission announced that it would temporarily lower the required liquidity coverage ratio to 85% and the required foreign currency liquidity coverage ratio to 70%. Following a series of extensions by the Financial Services Commission, the temporary deregulation measures

for the foreign currency liquidity coverage ratio expired at the end of June 2022, and the temporary deregulation measures for the liquidity coverage ratio will incrementally return to normal, but the timeline for such normalization to 100% has not been finalized yet.

The Monetary Policy Board of the Bank of Korea is empowered to fix and alter minimum reserve requirements that banks must maintain against their deposit liabilities. The current minimum reserve ratios are:

- 7% of average balances for Won currency demand deposits outstanding;
- 0% of average balances for Won currency employee asset establishment savings deposits, employee
  long-term savings deposits, employee house purchase savings deposits, long-term house purchase
  savings deposits, household long-term savings deposits and employee preferential savings deposits
  outstanding (with respect to employee-related deposits and household long-term savings deposits, only
  if such deposits were made prior to February 28, 2013); and
- 2% of average balances for Won currency time deposits, installment savings deposits, mutual installments, housing installments and certificates of deposit outstanding.

For foreign currency deposit liabilities, a 2% minimum reserve ratio is applied to time deposits with a maturity of one month or longer, certificates of deposit with a maturity of 30 days or longer and savings deposits with a maturity of six months or longer and a 7% minimum reserve ratio is applied to other deposits. A 1% minimum reserve ratio applies to deposits in offshore accounts, immigrant accounts and resident accounts opened by foreign exchange banks as well as foreign currency certificates of deposit held by account holders of such offshore accounts, immigrant accounts and resident accounts opened by foreign exchange banks.

Furthermore, under the Regulation on the Supervision of the Banking Business, Woori Bank is required to maintain a minimum "mid- to long-term foreign exchange funding ratio" of 100%. "Mid-to long term foreign exchange funding ratio" refers to the ratio of (1) the total outstanding amount of foreign exchange borrowing with a maturity of more than one year to (2) the total outstanding amount of foreign exchange lending with a maturity of one year or more.

Net Stable Funding Ratio and Leverage Ratio Requirements

The Financial Services Commission has implemented the Regulation on Supervision of the Banking Business, which imposes certain liquidity- and leverage-related ratio requirements on banks in Korea, in accordance with Basel III. Pursuant to such Regulation, each Korean bank is required to:

- maintain a net stable funding ratio (defined as the ratio of the available amount of stable funding to the required amount of stable funding) of not less than 100%, where (i) the available amount of stable funding generally refers to the portion of liabilities and capital expected to be reliable over a one-year time horizon and (ii) the required amount of stable funding generally refers to the amount of stable funding that is required to be maintained based on the liquidity characteristics, residual maturities and off-balance sheet exposures of the bank's assets, each as calculated in accordance with the Detailed Regulation on Supervision of the Banking Business;
- maintain a leverage ratio (defined as the ratio of core capital to total exposures) of not less than 3%, where (i) core capital includes paid-in capital, capital surplus, retained earnings and hybrid Tier I capital instruments and (ii) total exposures include on-balance sheet exposures, derivative exposures, securities financing transaction exposures and off-balance sheet exposures, each as calculated in accordance with the Detailed Regulation on Supervision of the Banking Business; and
- submit monthly reports with respect to the maintenance of these ratios.

Financial Exposure to Any Individual Customer or Major Shareholder

Under the Bank Act, subject to certain exceptions, the sum of large exposures by a bank—in other words, the total sum of its credits to single individuals, juridical persons or business groups that exceed 10% of the sum

of Tier I and Tier II capital (less any capital deductions)—generally must not exceed five times the sum of Tier I and Tier II capital (less any capital deductions). In addition, subject to certain exceptions, banks generally may not extend credit (including loans, guarantees, purchases of securities (limited to those extended for financial support) and any other transactions that directly or indirectly create credit risk) in excess of 20% of the sum of Tier I and Tier II capital (less any capital deductions) to a single individual or juridical person, or grant credit in excess of 25% of the sum of Tier I and Tier II capital (less any capital deductions) to a single group of companies as defined in the Monopoly Regulations and Fair Trade Act.

The Bank Act also provides for certain restrictions on extending credits to a major shareholder. A "major shareholder" is defined as:

- a shareholder holding (together with persons who have a special relationship with that shareholder) in excess of 10%; (or 15% in the case of regional banks) in the aggregate of the bank's total issued and outstanding voting shares; or
- a shareholder holding (together with persons who have a special relationship with such shareholder) in excess of 4% in the aggregate of the bank's (excluding regional banks) total issued and outstanding voting shares of a bank (excluding shares subject to the shareholding restrictions on "non-financial business group companies" as described below), where such shareholder is the largest shareholder or has actual control over the major business affairs of the bank through, for example, appointment and dismissal of the officers pursuant to the Enforcement Decree of the Bank Act. Non-financial business group companies primarily consist of: (i) any single shareholding group whose non-financial company assets comprise no less than 25% of its aggregate net assets; (ii) any single shareholding group whose non-financial company assets comprise no less than \text{\text{\text{W}2}} trillion in aggregate; or (iii) any investment company under the Financial Investment Services and Capital Markets Act of which any single shareholding group identified in (i) or (ii) above, owns more than 4% of the total issued and outstanding shares.

Under these restrictions, banks may not extend credits to a major shareholder (together with persons who have a special relationship with that shareholder) in an amount greater than the lesser of (x) 25% of the sum of the bank's Tier I and Tier II capital (less any capital deductions) and (y) the relevant major shareholder's shareholding ratio multiplied by the sum of the bank's Tier I and Tier II capital (less any capital deductions). In addition, the total sum of credits granted to all major shareholders must not exceed 25% of the bank's Tier I and Tier II capital (less any capital deductions).

#### Interest Rates

Korean banks generally depend on deposits as their primary funding source. Under the Act on Registration of Credit Business and Protection of Finance Users and the regulations thereunder, interest rates on loans made by registered banks in Korea to individuals or small corporations, as defined under the Framework Act on Small and Medium Enterprises, currently may not exceed 20% per annum. Historically, interest rates on deposits and lending were regulated by the Monetary Policy Board. There are no controls on deposit interest rates in Korea, except for the prohibition on interest payments on current account deposits.

#### Lending to Small- and Medium-Sized Enterprises

In order to obtain funding from the Bank of Korea at concessionary rates for their small- and medium-sized enterprise loans, banks are required to allocate a certain minimum percentage of any quarterly increase in their Won currency lending to small- and medium-sized enterprises. Currently, this minimum percentage is 45% in the case of nationwide banks and 60% in the case of regional banks. If a bank does not comply with this requirement, the Bank of Korea may:

- require the bank to prepay all or a portion of funds provided to that bank in support of loans to smalland medium-sized enterprises; or
- lower the bank's credit limit.

# Disclosure of Management Performance

For the purpose of protecting depositors and investors in commercial banks, the Financial Services Commission requires commercial banks to publicly disclose certain material matters, including:

- financial condition and profit and loss of the bank and its subsidiaries;
- fund raising by the bank and the appropriation of such funds;
- any sanctions levied on the bank under the Bank Act or any corrective measures or sanctions under the Act on the Structural Improvement of the Financial Industry; and
- except as may otherwise have been disclosed by a bank or its financial holding company listed on the KRX KOSPI Market in accordance with the Financial Investment Services and Capital Markets Act, occurrence of any of the following events or any other event as prescribed by the applicable regulations that have damaged or are likely to damage the soundness of the bank's management:
  - (i) loans bearing no profit made to a single business group in an amount exceeding 10% of the sum of the bank's Tier I and Tier II capital (less any capital deductions) as of the end of the previous month (where the loan exposure to that borrower is calculated pursuant to the criteria under the Detailed Regulation on the Supervision of the Banking Business), unless the loan exposure to that group is not more than \(\forall 4\) billion; and
  - (ii) any loss due to court judgments or similar decisions in civil proceedings in an amount exceeding 1% of the sum of the bank's Tier I and Tier II capital (less any capital deductions) as of the end of the previous month, unless the loss is not more than \text{\text{\$\text{\$W}\$}}1 billion.

# Restrictions on Lending

Pursuant to the Bank Act and its sub-regulations, commercial banks may not provide:

- loans directly or indirectly secured by a pledge of a bank's own shares;
- loans directly or indirectly to enable a natural or juridical person to buy the bank's own shares;
- loans to any of the bank's officers or employees, other than *de minimis* loans of up to (i) \text{\text{\$\exititt{\$\text{\$\exitit{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\
- credit (including loans) secured by a pledge of shares of a subsidiary corporation of the bank or to enable a natural or juridical person to buy shares of a subsidiary corporation of the bank; or
- loans to any officers or employees of a subsidiary corporation of the bank, other than general loans of up to \text{\psi}20 million or general and housing loans of up to \text{\psi}50 million in the aggregate.

# Regulations Relating to Retail Household Loans

The Financial Services Commission has implemented a number of changes in recent years to the regulations relating to retail household lending by banks. Under the currently applicable regulations:

- as to any new loans secured by housing (including apartments) located nationwide, the loan-to-value ratio (the aggregate principal amount of loans secured by such collateral over the appraised value of the collateral) should not exceed 70%;
- as to any new loans secured by housing (including apartments) located in "excessive investment," "high speculation" or "adjustment target" areas, in each case as designated by the Minister of Land, Infrastructure and Transport, the loan-to-value ratio should not exceed 50%, except that such maximum loan-to-value ratio shall be 70% for low-income households that (i) have an annual income of less than \text{\textsuperposition} 90 million, (ii) do not currently own any housing and (iii) are using the loan to purchase low-price housing valued at \text{\textsuperposition} 900 million or less;

- as to any new loans secured by housing to be extended to a household that already owns one or more houses, the maximum loan-to-value ratio is 10% lower than the applicable loan-to-value ratio described above:
- any new loans secured by housing (including apartments) located in excessive investment, high
  speculation or adjustment target areas, in each case as designated by the government, are not permitted
  for households that already own one or more houses unless otherwise specified by the applicable
  regulations. However, as of March 2, 2023 and onwards, in the case of households that already own one
  or more houses, the loan-to value for the purpose of purchasing homes in target is allowed up to 30%,
  and up to 60% in non-targeted areas;
- as to any new loans secured by housing (including apartments) located in excessive investment, high speculation or adjustment target areas, in each case as designated by the government, the borrower's debt-to-income ratio (calculated as (1) the aggregate annual total payment amount of the principal of and interest on loans secured by such housing and other housing over (2) the borrower's annual income) should not exceed 40%, except that such maximum debt-to-income ratio is 60% for low-income households that (i) have an annual income of less than \(\forall \text{90}\) million, (ii) do not currently own any housing and (iii) are using the loan to purchase low-price housing valued at \(\forall \text{600}\) million or less and (iv) are first-time homebuyers;
- as to any new loans secured by apartments located in an unregulated Seoul metropolitan area to be extended to a household that already owns one or more houses, the maximum debt-to-income ratio is 10% lower than the applicable debt-to-income ratio described above; and
- as to any new loans extended to a household that has already obtained a loan secured by housing (including apartments) located in excessive investment, high speculation or adjustment target areas, in each case as designated by the government, where the price exceeds-\display600 million (based on the data of a certified rating institution, for which the detailed standards shall be as determined by the director of the Financial Supervisory Service), the borrower's debt-service-ratio (calculated as (1) the aggregate annual total payment amount of the principal of and interest on financial liabilities, including the loans secured by such high-priced housing, divided by (2) the borrower's annual income) should not exceed 40% unless otherwise specified by the applicable regulations.

### Restrictions on Investments in Property

A bank may not invest in securities set forth below in excess of 100% of the sum of the bank's Tier I and Tier II capital (less any capital deductions):

- debt securities (within the meaning of paragraph (3) of Article 4 of the Financial Investment Services and Capital Markets Act) the maturity of which exceeds three years, but excluding government bonds, monetary stabilization bonds issued by the Bank of Korea and bonds within the meaning of item 2, paragraph (6) of Article 11 of the Act on the Structural Improvement of the Financial Industry;
- equity securities, but excluding securities within the meaning of item 1, paragraph (6) of Article 11 of the Act on the Structural Improvement of the Financial Industry;
- derivatives linked securities (within the meaning of paragraph (7) of Article 4 of the Financial Investment Services and Capital Markets Act) the maturity of which exceeds three years; and
- beneficiary certificates, investment contracts and depositary receipts (within the meaning of paragraph (2) of Article 4 of the Financial Investment Services and Capital Markets Act) the maturity of which exceeds three years.

A bank may possess real estate property only to the extent necessary for the conduct of its business. The aggregate value of such property may not exceed 60% of the sum of the bank's Tier I and Tier II capital (less any capital deductions). Any property that a bank acquires by exercising its rights as a secured party, or which a bank is prohibited from acquiring under the Bank Act, must be disposed of within three years, unless specified otherwise by the regulations thereunder.

Restrictions on Shareholdings in Other Companies

Under the Bank Act, a bank may not own more than 15% of shares outstanding with voting rights of another corporation, except where, among other reasons:

- that corporation engages in a category of financial businesses set forth by the Financial Services Commission; or
- the acquisition of shares by the bank is necessary for the corporate restructuring of such corporation and is approved by the Financial Services Commission.

In the above exceptional cases, the total investment in corporations in which the bank owns more than 15% of the outstanding shares with voting rights may not exceed (i) 20% of the sum of Tier I and Tier II capital (less any capital deductions) or (ii) 30% of the sum of Tier I and Tier II capital (less any capital deductions) where the acquisition satisfies the requirements determined by the Financial Services Commission.

The Bank Act provides that a bank using its bank accounts and its trust accounts is not permitted to acquire the shares issued by the major shareholder of such bank in excess of an amount equal to 1% of the sum of Tier I and Tier II capital (less any capital deductions).

### Restrictions on Bank Ownership

Under the Bank Act, a single shareholder and persons who have a special relationship with that shareholder generally may acquire beneficial ownership of no more than 10% of a nationwide bank's total issued and outstanding shares with voting rights and no more than 15% of a regional bank's total issued and outstanding shares with voting rights. The Korean government, the KDIC and bank holding companies qualifying under the Financial Holding Company Act are not subject to this limit. Pursuant to the Bank Act, non-financial business group companies may not acquire beneficial ownership of shares of a nationwide bank in excess of 4% (or 15% in the case of a regional bank) of that bank's outstanding voting shares, unless they satisfy certain requirements set forth by the Enforcement Decree of the Bank Act, obtain the approval of the Financial Services Commission and agree not to exercise voting rights in respect of shares in excess of the 4% limit (or the 15% limit in the case of a regional bank), in which case they may acquire beneficial ownership of up to 10% of a nationwide bank's outstanding voting shares. The Bank Act grants an exception for non-financial business group companies which, at the time of the enactment of the amended provisions, held more than 4% of the shares of a bank.

In addition, if a foreign investor, as defined in the Foreign Investment Promotion Act, owns in excess of 4% of a nationwide bank's outstanding voting shares, non-financial business group companies may acquire beneficial ownership of up to 10% (or 15% in the case of a regional bank) of that bank's outstanding voting shares, and in excess of 10% (or 15% in the case of a regional bank), 25% or 33% of that bank's outstanding voting shares with the approval of the Financial Services Commission, in each instance, up to the number of shares owned by the foreign investor. Any other person (whether a Korean national or a foreign investor), with the exception of non-financial business group companies described above, may acquire no more than 10% of a nationwide bank's total voting shares issued and outstanding, unless they obtain approval from the Financial Services Commission in each instance where the total holding will exceed 10% (or 15% in the case of regional banks), 25% or 33% of the bank's total voting shares issued and outstanding provided that, in addition to the foregoing threshold shareholding ratios, the Financial Services Commission may, at its discretion, designate a separate and additional threshold shareholding ratio.

### Deposit Insurance System

The Depositor Protection Act provides insurance for certain deposits of banks in Korea through a deposit insurance system. Under the Depositor Protection Act, all banks governed by the Bank Act are required to pay an insurance premium to the KDIC on a quarterly basis, and the rate is determined under the Enforcement Decree to the Depositor Protection Act. If the KDIC makes a payment on an insured amount, it will acquire the depositors' claims with respect to that payment amount. The KDIC insures a maximum of \(\pi\)50 million per individual for deposits and interest in a single financial institution, regardless of when the deposits were made or the size of the deposits.

## Restrictions on Foreign Exchange Position

Under the Korean Foreign Exchange Transaction Law, each of a bank's net overpurchased and oversold positions may not exceed 50% of its shareholder's equity as of the end of the prior month.

# Laws and Regulations Governing Other Business Activities

A bank must register with the Ministry of Economy and Finance to enter the foreign exchange business, which is governed by the Foreign Exchange Transaction Act of Korea. A bank must obtain the permission of the Financial Services Commission to enter the securities business, which is governed by regulations under the Financial Investment Services and Capital Markets Act. Under these laws, a bank may engage in the foreign exchange business, securities repurchase business, governmental/public bond underwriting business and governmental bond dealing business.

# Regulations on Trust Business

A bank must obtain approval from the Financial Services Commission to engage in trust businesses. The Trust Act and the Financial Investment Services and Capital Markets Act govern the trust activities of banks, and they are subject to various legal and accounting procedures and requirements, including the following:

- under the Trust Act, assets accepted in trust by a bank in Korea must be segregated from other assets in the accounts of that bank; and
- depositors and other general creditors cannot obtain or assert claims against the assets comprising the trust accounts in the event the bank is liquidated or wound-up.

The bank must make a special reserve of 25% or more of fees from each unspecified money trust account for which a bank guarantees the principal amount and a fixed rate of interest until the total reserve for that account equals 5% of the trust amount.

Under the Financial Investment Services and Capital Markets Act, which became effective in February 2009, a bank with a trust business license (such as Woori Bank) is permitted to offer both specified money trust account products and unspecified money trust account products. However, pursuant to guidelines from regulatory authorities that discourage the sale of unspecified money trust account products, sales of such products have generally been suspended.

# Regulations on Credit Card Business

### General

In order to enter the credit card business, a company must obtain a license from the Financial Services Commission. Credit card businesses are governed by the Specialized Credit Financial Business Act, which sets forth specific requirements with respect to the credit card business as well as generally prohibiting unsound business practices relating to the credit card business which may infringe on the rights of credit card holders or negatively affect the soundness of the credit card industry. Credit card companies, including our wholly-owned subsidiary, Woori Card, are regulated by the Financial Services Commission and the Financial Supervisory Service.

## Disclosure and Reports

Under the Specialized Credit Financial Business Act and the regulations thereunder, a credit card company is required to disclose on a periodic and on-going basis certain material matters and events. In addition, a credit card company must submit periodic reports with respect to its results of operations to the Governor of the Financial Supervisory Service, in accordance with the guidelines of the Financial Supervisory Service.

## Restrictions on Funding

Under the Specialized Credit Financial Business Act and the regulations thereunder, a credit card company must ensure that its total assets do not exceed an amount equal to eight times its equity capital and that the ratio

of its adjusted equity capital to its adjusted total assets is not less than 8.0%. However, if a credit card company is unable to comply with such limit upon the occurrence of unavoidable events, such as drastic changes in the domestic and global financial markets, such limit may be adjusted through a resolution of the Financial Services Commission.

Risk of Loss Due to Lost, Stolen, Forged or Altered Credit Cards

Under the Specialized Credit Financial Business Act, a credit card company is liable for any loss arising from the unauthorized use of credit cards or debit cards after it has received notice from the holder of the loss or theft of the card. A credit card company is also responsible for any losses resulting from the use of forged or altered credit cards, debit cards and pre-paid cards. A credit card company may, however, transfer all or part of this latter risk of loss to holders of credit card in the event of willful misconduct or gross negligence by holders of credit card if the terms and conditions of the agreement entered between the credit card company and members of such cards specifically provide for that transfer.

For these purposes, disclosure of a customer's password that is made intentionally or through gross negligence, or the transfer of or giving as collateral of the credit card or debit card, is considered willful misconduct or gross negligence. However, a disclosure of a cardholder's password that is made under irresistible force or threat to cardholder or his/her relatives' life or health will not be deemed as willful misconduct or negligence of the cardholder.

Each credit card company must institute appropriate measures to fulfill these obligations, such as establishing provisions, purchasing insurance or joining a cooperative association.

Pursuant to the Specialized Credit Financial Business Act and its Enforcement Decree, a credit card company will be liable for any losses arising from loss or theft of a credit card (which was not from the holder's willful misconduct or negligence) during the period beginning 60 days before the notice by the holder to the credit card company.

Pursuant to the Specialized Credit Financial Business Act, the Financial Services Commission may either restrict the limit or take other necessary measures against the credit card company with respect to such matters as the maximum limits on the amount per credit card, details of credit card terms and conditions, management of credit card merchants and collection of claims, including the following:

- maximum limits for cash advances on credit cards;
- use restrictions on debit cards with respect to per day or per transaction usage;
- · aggregate issuance limits and maximum limits on the amount per card on pre-paid cards; and
- other matters prescribed by the Enforcement Decree to the Specialized Credit Financial Business Act.

## Lending Ratio in Ancillary Business

Pursuant to the Enforcement Decree to the Specialized Credit Financial Business Act, a credit card company must maintain an aggregate quarterly average outstanding lending balance to credit cardholders (including cash advances and credit card loans, but excluding restructured loans) no greater than the sum of (i) its aggregate quarterly average outstanding credit card balance arising from the purchase of goods and services and (ii) the aggregate quarterly debit card transaction volume.

Issuance of New Cards and Solicitation of New Cardholders

The Specialized Credit Financial Business Act and its Enforcement Decree establish the conditions under which a credit card company may issue new cards and solicit new members. New credit cards may be issued only to the following persons:

• persons who are at least 19 years old when they apply for a credit card;

- persons whose capability to pay bills as they come due has been verified using standards established by the credit card company; and
- in the case of minors who are 18 years old, persons who submit documents evidencing employment as of the date of the credit card application, such as an employment certificate, or persons for whom the issuance of a credit card is necessitated by governmental policies, such as financial aid.

In addition, a credit card company may not solicit credit card members by:

- providing economic benefits or promising to provide economic benefits in excess of 10% of the annual credit card fee (in the case of credit cards with annual fees that are less than the average of the annual fees charged by major credit cards in Korea, the annual fee will be deemed to be equal to such average annual fee) in connection with issuing a credit card; provided, however, that providing economic benefits to or promising to provide economic benefits not exceeding the amount of the annual credit card fee to an applicant that becomes a credit card member through an online platform is permissible;
- soliciting applicants on roads, public places or along corridors used by the general public;
- soliciting applicants through visits, except those visits made upon prior consent and visits to a business area;
- soliciting applicants through the Internet, without verifying whether the applicant is who he or she
  purports to be using a digital signature under the Digital Signature Act which is capable of verifying his
  or her real name; and
- soliciting applicants through pyramid sales methods.

Compliance Rules on Collection of Receivable Claims

Pursuant to Supervisory Regulation on the Specialized Credit Financial Business, a credit card company may not, when collecting receivable claims:

- · exert violence or threaten violence;
- inform a related party (a guarantor of the debtor, blood relative or fiancé(e) of the debtor, a person living in the same household as the debtor or a person working in the same workplace as the debtor) of the debtor's obligations without just cause;
- provide false information relating to the debtor's obligation to the debtor or his or her related parties;
- threaten to sue or sue the debtor for fraud despite lack of affirmative evidence to establish that the debtor has submitted forged or false documentation with respect to his or her ability to make payment;
- visit or telephone the debtor during late evening hours (between the hours of 9:00 p.m. and 8:00 a.m.); and
- utilize other uncustomary methods to collect the receivables that interfere with the privacy or the peace in the workplace of the debtor or his or her related parties.

### Regulations on Class Actions Regarding Securities

The Law on Class Actions Regarding Securities was enacted as of January 20, 2004 and last amended on May 28, 2013. The Law on Class Actions Regarding Securities governs class actions suits instituted by one or more representative plaintiff(s) on behalf of 50 or more persons who claim to have been damaged in a capital markets transaction involving securities issued by a listed company in Korea.

Applicable causes of action with respect to such suits include:

- claims for damages caused by misleading information contained in a securities statement;
- claims for damages caused by the filing of a misleading business report, semi-annual report, or quarterly report;

- claims for damages caused by insider trading or market manipulation; and
- claims instituted against auditors for damages caused by accounting irregularities.

Any such class action may be instituted upon approval from the presiding court and the outcome of such class action will have a binding effect on all potential plaintiffs who have not joined the action, with the exception of those who have filed an opt out notice with such court.

# Regulations on Financial Investment Business

### General

The Financial Investment Services and Capital Markets Act, which became effective in February 2009, regulates and governs the financial investment business in Korea. The entities that regulate and supervise financial investment companies are the Financial Services Commission, the Financial Supervisory Service and the Securities and Futures Commission.

Under the Financial Investment Services and Capital Markets Act, a company must obtain a license from the Financial Services Commission to commence a financial investment business such as a brokerage business, a dealing business or an underwriting business, or register with the Financial Services Commission to commence a financial investment business such as an investment advisory business or a discretionary investment management business. A bank is permitted to engage in certain types of financial investment business as specified under the Enforcement Decree of the Bank Act. Prior to commencing a financial investment business, a bank must file a report with the Financial Services Commission and apply for a license pursuant to the Financial Investment Services and Capital Markets Act.

### Consolidation of Capital Markets-Related Laws

Prior to the effectiveness of the Financial Investment Services and Capital Markets Act, there were separate laws regulating various types of financial institutions depending on the type of financial institution (e.g., securities companies, futures companies, trust business companies and asset management companies) and subjecting financial institutions to different licensing and ongoing regulatory requirements (e.g., the Korean Securities Exchange Act, the Futures Business Act and the Indirect Investment Asset Management Business Act). By applying one uniform set of rules to the same financial business having the same economic function, the Financial Investment Services and Capital Markets Act attempts to improve and address issues caused by the previous regulatory system under which the same economic function relating to capital markets-related businesses are governed by multiple regulations. To this end, the Financial Investment Services and Capital Markets Act categorizes capital markets-related businesses into six different functions, as follows:

- dealing, trading and underwriting of "financial investment products" (as defined below);
- brokerage of financial investment products;
- establishment of collective investment schemes and the management thereof;
- investment advice;
- discretionary investment management; and
- trusts (together with the five businesses set forth above, the "Financial Investment Businesses").

Accordingly, all financial businesses relating to financial investment products have been reclassified as one or more of the Financial Investment Businesses described above, and financial institutions are subject to the regulations applicable to their relevant Financial Investment Businesses, regardless of the type of the financial institution. For example, under the Financial Investment Services and Capital Markets Act, derivative businesses conducted by former securities companies and future companies will be subject to the same regulations.

Banking and insurance businesses are not subject to the Financial Investment Services and Capital Markets Act and will continue to be regulated under separate laws. However, they may become subject to the Financial Investment Services and Capital Markets Act if their activities involve any financial investment businesses requiring a license pursuant to the Financial Investment Services and Capital Markets Act.

# Comprehensive Definition of Financial Investment Products

In an effort to encompass the various types of securities and derivative products available in the capital markets, the Financial Investment Services and Capital Markets Act sets forth a comprehensive term "financial investment products," defined to mean all financial products with a risk of loss in the invested amount (in contrast to "deposits," which are financial products for which the invested amount is protected or preserved). Financial investment products are classified into two major categories: (i) "securities" (financial investment products in which the risk of loss is limited to the invested amount) and (ii) "derivatives" (financial investment products in which the risk of loss may exceed the invested amount). As a result of the general and broad definition of financial investment products, a variety of financial products may be defined as a financial investment product, which would enable Financial Investment Companies (defined below) to handle a broader range of financial products. Under the Financial Investment Services and Capital Markets Act, entities formerly licensed as securities companies, asset management companies, futures companies and other entities engaging in any Financial Investment Business are classified as "Financial Investment Companies."

### New License System and the Conversion of Existing Licenses

Under the Financial Investment Services and Capital Markets Act, Financial Investment Companies are able to choose the type of Financial Investment Business in which to engage (through a "check the box" method set forth in the relevant license application), by specifying the desired (i) Financial Investment Business, (ii) financial investment product and (iii) target customers to which financial investment products may be sold or distributed (that is, general investors or professional investors). Licenses will be issued under the specific business sub-categories described in the foregoing sentence. For example, it would be possible for a Financial Investment Company to obtain a license to engage in the Financial Investment Business of (i) dealing (ii) over the counter derivatives products (iii) only with sophisticated investors.

Financial institutions that engage in business activities constituting a Financial Investment Business are required to take certain steps, such as renewal of their license or registration, in order to continue engaging in such business activities. Financial institutions that are not licensed Financial Investment Companies are not permitted to engage in any Financial Investment Business, subject to the following exceptions: (i) banks and insurance companies are permitted to engage in certain categories of Financial Investment Businesses for a period not exceeding six months commencing on the effective date of the Financial Investment Services and Capital Markets Act; and (ii) other financial institutions that engaged in any Financial Investment Business prior to the effective date of the Financial Investment Services and Capital Markets Act (whether in the form of a concurrent business or an incidental business) are permitted to continue such Financial Investment Business for a period not exceeding six months commencing on the effective date of the Financial Investment Services and Capital Markets Act.

# Expanded Business Scope of Financial Investment Companies

Under the previous regulatory regime in Korea, it was difficult for a financial institution to explore a new line of business or expand upon its existing line of business. For example, previously a financial institution licensed as a securities company generally was not permitted to engage in the asset management business. In contrast, under the Financial Investment Services and Capital Markets Act, pursuant to the integration of its current businesses involving financial investment products into a single Financial Investment Business, a licensed Financial Investment Company is permitted to engage in all types of Financial Investment Businesses, subject to satisfying relevant regulations (for example, maintaining an adequate "Chinese Wall," to the extent required). As to incidental businesses (that is, a financial related business which is not a Financial Investment Business), the Financial Investment Services and Capital Markets Act generally allows a Financial Investment Company to freely engage in such incidental businesses by shifting away from the previous positive-list system towards a more comprehensive system. In addition, a Financial Investment Company is permitted to (i) outsource marketing activities by contracting "introducing brokers" that are individuals but not employees of the Financial Investment Company, (ii) engage in foreign exchange businesses related to their Financial Investment Business and (iii) participate in the settlement network, pursuant to an agreement among the settlement network participants.

## Improvement in Investor Protection Mechanism

While the Financial Investment Services and Capital Markets Act widens the scope of financial businesses in which financial institutions are permitted to engage, a more rigorous investor-protection mechanism is also imposed upon Financial Investment Companies dealing in financial investment products. The Financial Investment Services and Capital Markets Act distinguishes general investors from sophisticated investors and provides new or enhanced protections to general investors. For instance, the Financial Investment Services and Capital Markets Act expressly provides for a strict know-your-customer rule for general investors and imposes an obligation that Financial Investment Companies should market financial investment products suitable to each general investor, using written explanatory materials. Under the Financial Investment Services and Capital Markets Act, a Financial Investment Company could be liable if a general investor proves (i) damage or losses relating to such general investor's investment in financial investment products solicited by such Financial Investment Company and (ii) the absence of the requisite written explanatory materials, without having to prove fault or causation. With respect to conflicts of interest between Financial Investment Companies and investors, the Financial Investment Services and Capital Markets Act expressly requires (i) disclosure of any conflict of interest to investors and (ii) mitigation of conflicts of interest to a comfortable level or abstention from the relevant transaction.

## Other Changes to Securities / Fund Regulations

The Financial Investment Services and Capital Markets Act changed various securities regulations including those relating to public disclosure, insider trading and proxy contests, which were previously governed by the Korean Securities Exchange Act. For example, the 5% and 10% reporting obligations under the Korean Securities Exchange Act have become more stringent. The Indirect Investment and Asset Management Business Act strictly limited the kind of vehicles that could be utilized under a collective investment scheme, restricting the range of potential vehicles to trusts and corporations, and the type of funds that can be used for investments. However, under the Financial Investment Services and Capital Markets Act, these restrictions have been significantly liberalized, permitting all vehicles that may be created under Korean law, such as limited liability companies or partnerships, to be used for the purpose of collective investments and allowing investment funds to be more flexible as to their investments.

# Act on the Corporate Governance of Financial Companies

The Act on the Corporate Governance of Financial Companies, which became effective on August 1, 2016, was enacted to address the need for strengthened regulations on corporate governance of financial institutions and to serve as a uniform set of regulations on corporate governance matters applicable to financial institutions across a variety of industry sectors. It contains several key measures, including (i) eligibility requirements for officers of financial institutions and standards for determining whether officers of financial institutions may hold concurrent positions in other companies, (ii) standards for composition and operation of the board of directors of financial institutions, (iii) standards for establishment, composition and operation of various committees of the board of directors of financial institutions, (iv) regulations on internal control and risk management, (v) requirements and procedures for the approval of a change of major shareholders and (vi) special regulations to protect the rights of minority shareholders of financial institutions.

### The Financial Consumer Protection Act

The Financial Consumer Protection Act became effective in March 2021 (certain provisions relating to internal control under such Act became effective in September 2021). The Financial Consumer Protection Act aims to protect financial consumers and establish a sound market order in the financial product sales and advisory businesses. The Financial Consumer Protection Act consolidates existing regulations relating to the sale of financial products and consumer protection, such as the Financial Investment Services and Capital Markets Act, the Banking Act and the Insurance Business Act, and applies to the financial industry on a cross-sectoral basis.

# Application of the Financial Consumer Protection Act

All financial products that are classified as (i) deposits, (ii) loans, (iii) investment products or (iv) insurance products are subject to the Financial Consumer Protection Act. These four types of products encompass most of the products covered by the Bank Act, the Financial Investment Services and Capital Markets Act and the Insurance Business Act.

# Six Principles Regulating Selling Activities

The Financial Consumer Protection Act consolidates existing regulations relating to financial business operations into standards that cover the following six principles: (i) suitability, (ii) appropriateness, (iii) duty to explain, (iv) prohibition of unfair sales practices, (v) prohibition of improper solicitation and (vi) advertisements. Among these six principles, suitability, appropriateness and duty to explain apply only to "general financial consumers," although certain "professional financial consumers" may elect to be treated as "general financial consumers," in which case all six principles would apply to them.

### Internal Control Requirements for Consumer Protection

The Financial Consumer Protection Act requires sellers of financial products to have adequate internal control standards to protect consumers. The Enforcement Decree to the Financial Consumer Protection Act sets forth details of certain of such internal control standards as follows:

- Establishment of the authority and responsibilities of the decision maker, such as the representative director or a director, in the implementation of internal control measures;
- Development of an organizational structure and designation of personnel responsible for consumer protection matters, including the establishment of a financial consumer protection committee;
- Implementation of (i) inter-departmental consultation procedures for the development and sale of financial products, (ii) processes for internal deliberations and the incorporation of opinions from independent third-party advisers, (iii) standards for vetting advertisements, (iv) mandatory training requirements for officers and employees and qualification requirements, (v) standards for the prevention of conflicts of interest, (vi) proper management of confidential information, and (vii) disclosure obligations when potential harm to consumers arises; and
- Establishment of standards for performance-based compensation of the officers and employees in charge of sales of financial products.

### Right to Withdraw Subscriptions and Right to Terminate Contracts

Under the Financial Consumer Protection Act, consumers will have the right to withdraw subscriptions, allowing them to receive a refund during a statutory cooling-off period following the execution of the relevant subscription agreement. This right generally applies to all types of financial products with the exception of deposits; although in the case of investment products, the right to withdraw applies only to highly complex funds and trusts. Consumers also have the right to terminate a contract if the sellers violate the Financial Consumer Protection Act in relation to the sales process. The right to terminate contracts applies to long-term contracts, but such right must be exercised within a shorter period of (i) one year from the time that the customer becomes aware that the financial product was sold in violation of the regulatory requirements or (ii) five years from the date on which the relevant contract was made.

## Punitive Penalty Surcharges

In the case of a violation of the principles regarding the duty to explain, prohibition of unfair sales practices, prohibition of improper solicitation and advertisements, sellers will now be subject to a punitive penalty of up to half the "amount that is the purpose of the contract" (which would be the deposit amount in the case of deposit products, the loan amount in the case of loan products, the investment amount in the case of investment products, and the insurance premium in the case of insurance products), depending on the severity of the violation of the Financial Consumer Protection Act.

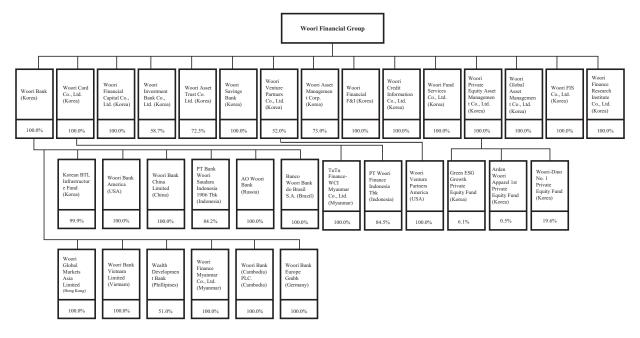
## **Environmental, Social and Governance (ESG)**

We launched our ESG initiative, "Good Finance for the NEXT", in 2021. In connection with this initiative, we appointed a female attorney with expertise in ESG related issues as a member of our Board and the chairman of our ESG Management Committee of our Board, to provide us with supervision and insight with respect to ESG management. We established a public foundation, named Woori Future Foundation, to fund projects relating to improving the quality of life of the underprivileged. We made efforts to address the climate crisis, biodiversity, and the circular economy. We worked on stakeholder co-prosperity management. We also worked on establishing transparent corporate governance structure to facilitate and induce prompt and diverse disclosures with respect to ESG related issues.

Our endeavors have been well-received and have contributed significantly to our exceptional performance in major ESG evaluations worldwide. Specifically, we have been ranked at the top global level concerning ESG ratings. Consequently we received "AA" rating (i.e. the second highest rating) from MSCI ESG Research, a global provider of research, ratings and analysis of ESG related business practices. We are included in the Dow Jones Sustainability Asia Pacific Index, which is designed to measure the performance of Asia-Pacific sustainability leaders as identified by S&P Global through the Corporate Sustainability Assessment and represents the top 20% of the 600 largest companies in the Asia-Pacific developed region in the S&P Global Broad Market Index based on long-term economic, environmental and social criteria. We also received a "grade A" from the Korea Institute of Corporate Governance and Sustainability, a non-profit corporate governance service provider and global think tank focused on enhancing ESG policies across organizations.

### Item 4.C. Organizational Structure

The following chart provides an overview of our structure, including our significant subsidiaries and our ownership of such subsidiaries as of April 21, 2023:



The following table provides summary information for our subsidiaries (other than structured companies) that are consolidated in our consolidated financial statements as of and for the year ended December 31, 2022:

Subsidiary <sup>(1)</sup>	Percentage of Ownership	Total Assets	Shareholders' Equity	Operating Revenue	Net Income attributable to owners
<u> </u>		(in millions	of Won, except p	ercentages)	
Woori Bank	100.0%	₩443,340,979	₩25,757,186	₩38,656,623	₩2,937,257
Woori Card Co., Ltd	100.0%	16,118,967	2,426,511	1,845,296	204,385
Woori Financial Capital Co., Ltd	100.0%	12,581,473	1,540,719	1,323,574	183,328
Woori Investment Bank Co., Ltd	58.7%	5,657,191	674,781	406,157	91,794
Woori Asset Trust Co., Ltd	$51.0^{(2)}\%$	322,098	227,525	137,114	60,319
Woori Savings Bank	100.0%	1,786,495	229,816	110,868	10,607
Woori Asset Management Corp	73.0%	185,389	122,821	35,019	1,259
Woori Credit Information Co., Ltd	100.0%	42,832	33,592	38,549	1,784
Woori Fund Services Co., Ltd	100.0%	25,094	22,403	16,337	3,917
Woori Private Equity Asset Management					
Co., Ltd	100.0%	94,434	89,762	7,830	1,902
Woori Global Asset Management Co.,					
Ltd	100.0%	34,988	27,898	13,711	211
Woori FIS Co., Ltd	100.0%	112,117	57,472	296,235	1,069
Woori Finance Research Institute Co.,					
Ltd	100.0%	6,456	3,852	7,006	46
Woori Financial F&I Inc	100.0%	336,141	200,579	8,086	867

<sup>(1)</sup> In March 2023, we acquired a 52% equity interest in Daol Investment, a venture capital company. We subsequently changed its name to Woori Venture Partners Co., Ltd.

## Item 4.D. Property, Plants and Equipment

Our registered office and corporate headquarters, with a total area of approximately 97,222 square meters, are located at 51, Sogong-ro, Jung-gu, Seoul, Korea. Information regarding certain of our properties in Korea as of December 31, 2022 is presented in the following table:

Type of Facility/Building	Location	Area
Woori Bank registered office and corporate headquarters	51, Sogong-ro, Jung-gu, Seoul, Korea 04632	(square meters) 97,222
Woori Bank Sangam Tower	17, World Cup buk-ro 60-gil, Mapo-gu, Seoul, Korea 03921	81,475
Woori Bank Digital Tower	48, Sogong-ro, Jung.gu, Seoul, Korea 04631	33,022

As of December 31, 2022, we had a network of 713 banking branches in Korea, 200 of which are housed in buildings owned by us, while the remaining branches are leased properties. Lease terms are generally from two to three years and seldom exceed five years. We also have subsidiaries in the United States, China, Hong Kong, Russia, Indonesia, Cambodia, Brazil, Myanmar, the Philippines, Vietnam and Germany and branches, agencies and representative offices across the world. See "Item 4.B. Business Overview—Capital Markets Activities—International Banking." We do not own any material properties outside of Korea.

<sup>(2)</sup> As of December 31, 2022, our ownership interest was 67.2% excluding treasury stocks. As of March 31, 2023, we have completed additional acquisitions and our ownership percentage is 72.3% including treasury stocks (our ownership interest is 95.3% excluding such treasury stocks).

### Item 4A. UNRESOLVED STAFF COMMENTS

We do not have any unresolved comments from the U.S. Securities and Exchange Commission staff regarding our periodic reports under the Exchange Act.

## Item 5. OPERATING AND FINANCIAL REVIEW AND PROSPECTS

# Item 5.A. Operating Results

### Overview

The following discussion is based on our consolidated financial statements, which have been prepared in accordance with IFRS as issued by the IASB. The consolidated financial statements include the accounts of subsidiaries over which substantive control is exercised through either majority ownership of voting stock and/or other means. Investments in joint ventures and associates (which are companies over which we have the ability to exercise significant influence) are accounted for by the equity method of accounting and are reported in investments in joint ventures and associates.

## Trends in the Korean Economy

Our financial position and results of operations have been and will continue to be significantly affected by financial and economic conditions in Korea. Substantial growth in lending in Korea to small- and medium-sized enterprises in recent years, and financial difficulties experienced by such enterprises as a result of, among other things, adverse changes in economic conditions in Korea and globally (such as inflation, rise in interest rates and the COVID-19 pandemic which still affects many countries worldwide, including Korea, although to a lesser extent compared with prior year), may lead to increasing delinquencies and a deterioration in overall asset quality in the credit exposures of Korean banks to small- and medium-sized enterprises. Our loans to small- and medium-sized enterprises increased from \text{\psi}112,696 as of December 31, 2021 to \text{\psi}122,925 billion as of December 31, 2022. In 2022, we recorded charge-offs of \text{\psi}117 billion in respect of our Won-denominated loans to small- and medium-sized enterprises, compared to charge-offs of \text{\psi}158 billion in 2021. See "Item 3.D. Risk Factors—Risks relating to our corporate credit portfolio—The largest portion of our exposure is to small- and medium-sized enterprises, and financial difficulties experienced by companies in this segment may result in a deterioration of our asset quality and have an adverse impact on us."

In recent years, commercial banks, consumer finance companies and other financial institutions in Korea have also made significant investments and engaged in aggressive marketing in consumer lending (including mortgage and home equity loans), leading to substantially increased competition in this segment. From the second half of 2016 to 2021, the Korean government introduced various measures to tighten regulations on mortgage and other lending and housing subscription in response to the rapid growth in consumer debt and concerns over speculative investments in real estate in certain areas. Demand for residential property and their prices in certain areas, including Seoul, continued to increase until the beginning of 2022. However, overall in 2022, housing prices and activity levels in the Korean real estate market decreased and the Korean government has since begun to introduce a number of policy measures, including the lifting of borrowing limits, to sustain housing prices and induce a soft landing of the housing market. Our consumer loan portfolio decreased from ₩148,361 billion as of December 31, 2021 to ₩143,940 billion as of December 31, 2022. A decrease in housing prices as a result of the implementation of such measures, together with the high level of consumer debt and deteriorating domestic and global economic conditions, could result in declines in consumer spending and reduced economic growth, which may lead to increasing delinquencies and a deterioration in asset quality. In 2022, we recorded charge-offs of \(\mathbf{W}\)161 billion and provisions for credit losses of \(\mathbf{W}\)206 billion in respect of our consumer loan portfolio, compared to charge-offs of W173 billion and provisions for credit losses of ₩168 billion in 2021. See "Item 3.D. Risk Factors—Risks relating to our consumer credit portfolio."

The Korean economy is closely tied to, and is affected by developments in, the global economy. The overall prospects for the Korean and global economy in 2023 and beyond remain uncertain. In recent years, the global financial markets have experienced significant volatility as a result of, among other things:

• the occurrence of severe health epidemics, such as the COVID-19 pandemic;

- hostilities, political or social tensions involving Russia (including the invasion of Ukraine by Russia and
  ensuing actions that the United States and other countries have taken or may take in the future) and the
  resulting adverse effects on the global supply of oil and other natural resources and the global financial
  markets;
- interest rate fluctuations as well as changes in policy rates by the U.S. Federal Reserve and other central banks;
- financial and social difficulties affecting many countries worldwide, in particular in Latin America and Europe;
- adverse developments in the global financial markets and industry, in particular those faced by several banks in the United States and Europe;
- a deterioration in economic and trade relations between the United States and its major trading partners, including China;
- escalations in trade protectionism globally and geopolitical tensions in East Asia and the Middle East;
- the slowdown of economic growth in China and other major emerging market economies;
- political and social instability in various countries in the Middle East, including Syria, Iraq and Egypt.

In light of the high level of interdependence of the global economy, unfavorable changes in the global financial markets, including as a result of any of the foregoing developments, could have a material adverse effect on the Korean economy and financial markets, and in turn on our business, financial condition and results of operations.

In addition, in March 2023, Silicon Valley Bank, Signature Bank and other banks closed and entered into receivership, or winded down their operations. Although these adverse developments did not take place in Korea, such events involving limited liquidity, defaults, non-performance or other adverse developments that affect financial institutions, transactional counterparties or other companies in the financial services industry or the financial services industry generally, or concerns or rumors about any events of these kinds or other similar risks, have in the past and may in the future lead to market-wide liquidity issues. See "Item 3.D. Risk Factors—Other risks relating to our business—Adverse developments affecting the financial services industry, including events or concerns involving liquidity by financial institutions, could adversely affect our business, financial condition or results of operations."

The global outbreak of COVID-19, which was declared a "pandemic" by The World Health Organization in March 2020, has led to global economic and financial disruptions, including impact on international trade and business activities, sharp declines and significant volatility in the financial markets as well as decreases in interest rates worldwide. See "Item 3.D. Risk Factors—Other risks relating to our business— The COVID-19 pandemic has adversely affected and may continue to adversely affect our business, financial condition or results of operations" and "Item 3.D. Risk Factors—Other risks relating to our business—An increase in interest rates would decrease the value of our debt securities portfolio and raise our funding costs while reducing loan demand and the repayment ability of our borrowers, which could adversely affect us."

The interest rates on our interest-earning assets and interest-bearing liabilities, and therefore our net interest income, are affected by The Bank of Korea's policy rates. On March 16, 2020, the Bank of Korea lowered its policy rate to 0.75% from 1.25%, which was further lowered to 0.5% on May 28, 2020, in response to deteriorating economic conditions resulting from the COVID-19 pandemic. The Bank of Korea raised its policy rate from 0.50% to 0.75% on August 26, 2021, to 1.00% on November 25, 2021, to 1.25% on January 14, 2022, to 1.50% on April 14, 2022, to 1.75% in May 2022, to 2.25% in July 2022, to 2.50% in August 2022, to 3.00% in October 2022, to 3.25% in November 2022 and to 3.50% in January 2023 in response to rising levels of household debt and inflationary pressures.

We are also exposed to adverse changes and volatility in the global and Korean financial markets as a result of our liabilities and assets denominated in foreign currencies and our holdings of trading and investment securities, including structured products. The value of the Won relative to major foreign currencies in general and

the U.S. dollar in particular has fluctuated widely in recent years and has been subject to significant volatility as a result of the COVID-19 pandemic, and by the invasion of Ukraine by Russia. A depreciation of the Won will increase our cost of servicing our foreign currency-denominated debt, while continued exchange rate volatility may also result in foreign exchange losses for us. Furthermore, as a result of changes in global and Korean economic, social and political conditions, there has been volatility in securities prices, including the stock prices of Korean and foreign companies in which we hold an interest. Such volatility has resulted in and may lead to further trading and valuation losses on our trading and investment securities portfolio as well as impairment losses on our investments in joint ventures and associates.

As a result of volatile conditions in the Korean and global economies and financial markets, as well as factors such as fluctuations in oil and commodity prices, interest and exchange rate fluctuations, higher unemployment, lower consumer confidence, stock market volatility, changes in fiscal and monetary policies and continued tensions with North Korea, the economic outlook for the financial services sector in Korea in 2023 and for the foreseeable future remains highly uncertain.

## Cessation of LIBOR

The ICE Benchmark Administration, the administrator of the London Interbank Offered Rate, or LIBOR, ceased publication of short-term U.S. dollar LIBOR settings and all non-U.S. dollar LIBOR settings on a representative basis after December 31, 2021, with plans to cease publication of all other U.S. dollar LIBOR settings after June 30, 2023. Given the extensive use of LIBOR across financial markets, the transition away from LIBOR presents various risks and challenges to financial markets and institutions, including us, and in particular, Woori Bank. We had issued, traded, held or otherwise used various products and securities that referenced LIBOR, including, among others, loans, securities, deposits, borrowings, derivatives and debentures. In response, we established a LIBOR response plan to identify the impacts and risks to its business associated with the transition away from LIBOR, and to prepare and implement an action plan to ensure a smooth transition to alternative benchmark rates, and to date, has substantively completed such transition, with a strategy in place for the remainder of such transactions that involve LIBOR settings that expire in 2023.

# Changes in Securities Values, Exchange Rates and Interest Rates

Fluctuations of exchange rates, interest rates and stock prices affect, among other things, the demand for our products and services, the value of and rate of return on our assets, the availability and cost of funding and the financial condition of our customers. The following table shows, for the dates indicated, the stock price index of all equities listed on the KRX KOSPI Market as published in the KOSPI, the Won to U.S. dollar exchange rates and benchmark Won borrowing interest rates.

	June 30, 2018	Dec. 31, 2018	June 30, 2019	Dec. 31, 2019	June 30, 2020	Dec. 31, 2020	June 30, 2021	Dec. 31, 2021	June 30, 2022	Dec. 31, 2022
KOSPI	2,326.13	2,041.04	2,130.62	2,197.67	2,108.33	2,873.47	3,296.68	2,977.65	2,332.64	2,236.40
₩/US\$ exchange rates(1)	₩1,111.79	₩1,112.85	₩1,154.58	₩1,155.46	₩1,200.50	₩1,086.11	₩1,130.42	₩1,188.59	₩ 1,298.95	₩ 1,260.18
Corporate bond rates <sup>(2)</sup>	2.99	6 2.6%	2.0%	2.09	% 1.89	6 1.79	6 2.09	6 2.5%	4.5%	5.5%
Treasury bond rates(3)	2.19	6 1.8%	1.5%	5 1.49	6 0.89	6 1.09	6 1.59	6 1.8%	3.5%	6 3.7%

<sup>(1)</sup> Represents the noon buying rate on the dates indicated.

<sup>(2)</sup> Measured by the yield on three-year Korean corporate bonds rated as A+ by the Korean credit rating agencies.

<sup>(3)</sup> Measured by the yield on three-year treasury bonds issued by the Ministry of Economy and Finance of Korea.

# **Results of Operations**

### Net Interest Income

The following table shows, for the years indicated, the principal components of our interest income:

	Year	ended Decen	Percentag	ge change	
	2020 2021		2022	2022 2021/2020	
	(iı	billions of V	Von)	(%	6)
Interest income					
Financial assets at fair value through profit or loss	<b>₩</b> 49	₩ 46	₩ 107	(6.1)%	132.6%
Financial assets at fair value through other comprehensive					
income	437	381	633	(12.8)	66.1
Financial assets at amortized cost:					
Securities at amortized cost	383	325	515	(15.1)	58.5
Loans and other financial assets at amortized cost:					
Interest on due from banks	54	47	244	(13.0)	419.1
Interest on loans	8,570	9,065	13,109	5.8	44.6
Interest on other receivables	31	31	47	0.0	51.6
Subtotal	9,038	9,468	13,915	4.8	47.0
Total interest income	9,524	9,895	14,655	3.9	48.1
Interest expense					
Deposits	2,487	1,907	4,121	(23.3)	116.1
Borrowings	270	220	598	(18.5)	171.8
Debentures	723	727	1,036	0.6	42.5
Others	37	48	195	29.7	306.3
Lease liabilities	9	7	8	(22.2)	14.3
Total interest expense	3,526	2,909	5,958	(17.5)	104.8
Net interest income	₩5,998	₩6,986	₩ 8,697	16.5%	24.5%
Net interest margin <sup>(1)</sup>	1.659	% 1.74%	6 1.96%	%	

<sup>(1)</sup> The ratio of net interest income to average interest-earning assets.

## Comparison of 2022 to 2021

Interest Income. Interest income increased 48.1% from \( \formal{\psi} \),895 billion in 2021 to \( \formal{\psi} \)14,655 billion in 2022, primarily due to a 44.6% increase in interest on loans, which was enhanced by a 58.5% increase in interest on securities at amortized cost and a 66.1% increase in interest on financial assets at fair value through other comprehensive income. The average balance of interest-earning assets increased 10.71% from \( \formal{\psi} \)401,368 billion in 2021 to \( \formal{\psi} \)4444,373 billion in 2022, due to the growth of our loan portfolio, an increase in financial assets at fair value through profit or loss, an increase in financial assets at fair value through other comprehensive income, and an increase in securities at amortized cost. The effect of this increase was enhanced by a 83 basis point increase in the average yield on interest-earning assets from 2.47% in 2021 to 3.30% in 2022, which reflected the higher overall level of interest rates prevailing in Korea in 2022 compared to 2021, as discussed above in "—Overview—Trends in the Korean Economy."

The 44.6% increase in interest on loans from  $\Psi$ 9,065 billion in 2021 to  $\Psi$ 13,109 billion in 2022 was principally due to:

• a 14.59% increase in the average volume of commercial and industrial loans from \(\mathbb{W}\)135,776 billion in 2021 to \(\mathbb{W}\)155,581 billion in 2022, which was enhanced by a 108 basis point increase in the average yield on such loans from 2.57% in 2021 to 3.65% in 2022;

- a 0.59% decrease in the average volume of general purpose household loans (including home equity loans) from \(\fowarrow\)79,923 billion in 2021 to \(\fowarrow\)79,453 billion in 2022, which was partially offset by a 117 basis point increase in the average yield on such loans from 3.51% in 2021 to 4.68% in 2022; and
- a 34.29% increase in the average volume of lease financing loans from \(\pm3,287\) billion in 2021 to \(\pm4,414\) billion in 2022, which was enhanced by a 41 basis point increase in the average yield on such loans from 3.62% in 2021 to 4.03% in 2022.

The average volumes of commercial and industrial loans, and lease financing loans increased primarily due to the increased demand from borrowers in need of financing in light of the higher overall interest rates prevailing in Korea in 2022 compared to 2021. The average volume of general purpose household loans decreased primarily due to the decreased demand for credit loans and home equity loans. The average yields on commercial and industrial loans, general purpose household loans and lease financing loans increased mainly due to the higher overall level of interest rates prevailing in Korea in 2022 compared to 2021. Overall, the average volume of loans increased 8.92% from \text{\textbf{W}}314,738 billion in 2021 to \text{\textbf{W}}342,815 billion in 2022, while the average yield on loans increased by 94 basis points from 2.88% in 2021 to 3.82% in 2022.

The 58.5% increase in interest on securities at amortized cost from \(\foatbb{\text{W}}\)325 billion in 2021 to \(\foatbb{\text{W}}\)515 billion in 2022 was principally due to a 30.0% increase in the average volume of securities at amortized cost from \(\foatbb{\text{W}}\)16,503 billion in 2021 to \(\foatbb{\text{W}}\)21,450 billion in 2022, which was principally due to an increase in Won-denominated debt securities from financial institutions. Such increase was enhanced by a 43 basis point increase in the average yield on such assets from 1.97% in 2021 to 2.40% in 2022, which reflected the higher overall level of interest rates prevailing in Korea in 2022 compared to 2021.

The 66.1% increase in interest on financial assets at fair value through other comprehensive income from \text{\psi}381 billion in 2021 to \text{\psi}633 billion in 2022 was principally due to a 53 basis point increase in the average yield on financial assets at fair value through other comprehensive income from 1.24% in 2021 to 1.77% in 2022, which was principally due to the higher overall level of interest rates prevailing in Korea in 2022 compared to 2021. Such increase was partially enhanced by a 16.7% increase in the average volume of such assets from \text{\psi}30,724 billion in 2021 to \text{\psi}35,848 billion in 2022, which was principally due to increases in Won-denominated debt securities from financial institutions and Won-denominated treasury bonds.

Interest Expense. Interest expense increased 104.8% from \(\foat{\psi}\)2,909 billion in 2021 to \(\foat{\psi}\)5,958 billion in 2022, primarily due to a 116.1% increase in interest expense on deposits, which was enhanced by an 171.8% increase in interest expense on borrowings. The average cost of interest-bearing liabilities increased by 64 basis points from 0.76% in 2021 to 1.40% in 2022, which mainly reflected the higher overall level of interest rates prevailing in Korea in 2022 compared to 2021, as well as a decrease in the volume of low-cost deposits. The effect of this increase was partially enhanced by a 10.9% increase in the average balance of interest-bearing liabilities from \(\foat{\psi}\)384,650 billion in 2021 to \(\foat{\psi}\)426,482 billion in 2022, which was principally due to increases in the average balances of deposits, borrowings and debentures.

The 116.1% increase in interest expense on deposits from \$1,907 billion in 2021 to \$4,121 billion in 2022 resulted mainly from:

- a 63 basis point increase in the average cost of Won-denominated time and savings deposits from 0.61% in 2021 to 1.24% in 2022, which was partially enhanced by a 6.1% increase in the average balance of such deposits from \(\foware 243,708\) billion in 2021 to \(\foware 258,594\) billion in 2022; and
- a 75 basis point increase in the average cost of other deposits (other than Won-denominated demand deposits, time and savings deposits and certificates of deposit) from 0.73% in 2021 to 1.48% in 2022, which was partially enhanced by a 25.0% increase in the average balance of such deposits from \(\foware\text{\pi}\)38,374 billion in 2021 to \(\foware\text{\pi}\)47,978 billion in 2022.

The increases in the average cost of Won-denominated time and savings deposits and other deposits were primarily attributable to the higher overall level of interest rates prevailing in Korea in 2022 compared to 2021, while the increases in the average volume of Won-denominated time and savings deposits and other deposits

mainly reflected the customers' continuing preference for low-risk products and institutions in Korea in light of the continuing uncertainty in financial markets in 2022 resulting from the COVID-19 pandemic and the higher overall interest rates in 2022 compared to 2021.

Overall, the average cost of deposits increased by 63 basis points from 0.64% in 2021 to 1.27% in 2022, while the average volume of deposits increased 8.4% from \(\mathbb{W}\)299,574 billion in 2021 to \(\mathbb{W}\)324,710 billion in 2022.

The 171.8% increase in interest expense on borrowings from \text{\text{\text{W}}}220 billion in 2021 to \text{\text{\text{\text{\text{\text{W}}}}}598 billion in 2022 was primarily due to a 104 basis point increase in the average cost of borrowings from 0.95% in 2021 to 1.99% in 2022, which mainly reflected the higher overall level of interest rates prevailing in Korea in 2022 compared to 2021. Such increase was partially enhanced by an 29.2% increase in the average balance of borrowings from \text{\text{\text{\text{W}}}}23,216 billion in 2021 to \text{\text{\text{\text{\text{W}}}}30,004 billion in 2022, which was mainly attributable to our continued use of borrowings to meet our funding needs.

The 42.5% increase in interest expense on debentures from \(\foat \)727 billion in 2021 to \(\foat \)40,036 billion in 2022 was primarily due to a 13.4% increase in the average balance of debentures from \(\foat \)40,935 billion in 2021 to \(\foat \)46,414 billion in 2022, which was enhanced by a 45 basis point increase in the average cost of debentures from 1.78% in 2021 to 2.23% in 2022. The increase in the average balance of debentures mainly reflected the increase in debentures issued by our subsidiaries Woori Card and Woori Financial Capital in 2022, while the increase in the average cost of debentures was mainly due to the higher level of interest rates prevailing in Korea in 2022 compared to 2021.

Net Interest Margin. Net interest margin represents the ratio of net interest income to average interest-earning assets. Our overall net interest margin increased from 1.74% in 2021 to 1.96% in 2022, which was primarily due to a 24.5% increase in our net interest income from \(\foadstar{\text{W}}6,986\) billion in 2021 to \(\foadstar{\text{W}}8,697\) billion in 2022 and a 10.7% increase in the average balance of our interest-earning assets from \(\foadstar{\text{W}}401,368\) billion in 2021 to \(\foadstar{\text{W}}444,373\) billion in 2022. The increase in interest income outpaced a decrease in interest expense, resulting in the increase in net interest income. The growth in average interest-earning assets was mostly offset by an increase in average interest-bearing liabilities from \(\foadstar{\text{W}}384,650\) billion in 2021 to \(\foadstar{\text{W}}426,482\) billion in 2022. The increase in net interest margin was driven mainly by an increase in our net interest spread, which represents the difference between the average yield on our interest-earning assets and the average cost of our interest-bearing liabilities, from 1.71% in 2021 to 1.90% in 2022. The increase in our net interest spread reflected a larger increase in the yield on interest-earning assets compared to the increase in the average cost of interest-bearing liabilities, primarily due to the earlier adjustment of interest rates on interest-earning assets compared to interest rates on interest-bearing liabilities in the context of a higher interest rate environment in 2022 compared to 2021.

## Comparison of 2021 to 2020

Interest Income. Interest income increased 3.9% from \(\foadsymbol{\psi}\),524 billion in 2020 to \(\foadsymbol{\psi}\),895 billion in 2021, primarily due to a 5.8% increase in interest on loans, which was offset in part by a 15.1% decrease in interest on securities at amortized cost and a 12.8% decrease in interest on financial assets at fair value through other comprehensive income. The average balance of interest-earning assets increased 10.5% from \(\foadsymbol{\psi}\)363,234 billion in 2020 to \(\foadsymbol{\psi}\)401,368 billion in 2021, principally due to the growth of our loan portfolio. The effect of this increase was partially offset by a 15 basis point decrease in the average yield on interest-earning assets from 2.62% in 2020 to 2.47% in 2021, which reflected the lower overall level of interest rates prevailing in Korea in 2021 compared to 2020, as discussed above in "\(-\text{Overview}\)—Trends in the Korean Economy."

The 5.8% increase in interest on loans from \$8,570 billion in 2020 to \$9,065 billion in 2021 was principally due to:

• a 13.9% increase in the average volume of commercial and industrial loans from \(\foathbf{W}\)119,251 billion in 2020 to \(\foathbf{W}\)135,776 billion in 2021, which was partially offset by a 13 basis point decrease in the average yield on such loans from 2.70% in 2020 to 2.57% in 2021;

- a 7.8% increase in the average volume of general purpose household loans (including home equity loans) from \(\pi\)74,123 billion in 2020 to \(\pi\)79,923 billion in 2021, which was partially offset by a 14 basis point decrease in the average yield on such loans from 3.65% in 2020 to 3.51% in 2021; and
- a 127.0% increase in the average volume of lease financing loans from \(\mathbb{W}\)1,448 billion in 2020 to \(\mathbb{W}\)3,287 billion in 2021, which was enhanced by a 31 basis point increase in the average yield on such loans from 3.31% in 2020 to 3.62% in 2021.

The average volumes of commercial and industrial loans, general purpose household loans and lease financing loans increased primarily due to increased demand from borrowers in need of financing in light of the COVID-19 pandemic as well as increases in home purchases in the case of general purpose household loans, which include home equity loans and loans for large-scale home lease deposits. The average yields on commercial and industrial loans, general purpose household loans and lease financing loans decreased mainly due to the lower overall level of interest rates prevailing in Korea in 2021 compared to 2020. Overall, the average volume of loans increased 12.3% from \(\forall \)280,181 billion in 2020 to \(\forall \)314,738 billion in 2021, while the average yield on loans decreased by 18 basis points from 3.06% in 2020 to 2.88% in 2021.

The 15.1% decrease in interest on securities at amortized cost from \(\foatbreak 383\) billion in 2020 to \(\foatbreak 325\) billion in 2021 was principally due to a 12.9% decrease in the average volume of securities at amortized cost from \(\foatbreak 18,945\) billion in 2020 to \(\foatbreak 16,503\) billion in 2021, which was principally due to a decrease in Won-denominated debt securities from financial institutions. Such decrease was enhanced by a 5 basis point decrease in the average yield on such assets from 2.02% in 2020 to 1.97% in 2021, which reflected the lower overall level of interest rates prevailing in Korea in 2021 compared to 2020.

The 12.8% decrease in interest on financial assets at fair value through other comprehensive income from \$\fowald 437\$ billion in 2020 to \$\fowald 381\$ billion in 2021 was principally due to a 33 basis point decrease in the average yield on financial assets at fair value through other comprehensive income from 1.57% in 2020 to 1.24% in 2021, which was principally due to the lower overall level of interest rates prevailing in Korea in 2021 compared to 2020. Such decrease was partially offset by a 10.2% increase in the average volume of such assets from \$\fowald 27,868\$ billion in 2020 to \$\fowald 30,724\$ billion in 2021, which was principally due to increases in Won-denominated debt securities from financial institutions and Won-denominated treasury bonds.

Interest Expense. Interest expense decreased 17.5% from \display3,526 billion in 2020 to \display2,909 billion in 2021, primarily due to a 23.3% decrease in interest expense on deposits, which was enhanced by an 18.5% decrease in interest expense on borrowings. The average cost of interest-bearing liabilities decreased by 26 basis points from 1.02% in 2020 to 0.76% in 2021, which mainly reflected the lower overall level of interest rates prevailing in Korea in 2021 compared to 2020, as well as an overall increase of loans that typically have lower interest rates. The effect of this decrease was partially offset by a 10.8% increase in the average balance of interest-bearing liabilities from \display347,004 billion in 2020 to \display384,650 billion in 2021, which was principally due to increases in the average balances of deposits, debentures and borrowings.

The 23.3% decrease in interest expense on deposits from \$2,487 billion in 2020 to \$1,907 billion in 2021 resulted mainly from:

- a 30 basis point decrease in the average cost of Won-denominated time and savings deposits from 0.91% in 2020 to 0.61% in 2021, which was partially offset by an 8.0% increase in the average balance of such deposits from \(\foware \text{W225,563}\) billion in 2020 to \(\foware \text{W243,708}\) billion in 2021; and
- a 30 basis point decrease in the average cost of other deposits (other than Won-denominated demand deposits, time and savings deposits and certificates of deposit) from 1.03% in 2020 to 0.73% in 2021, which was partially offset by a 10.1% increase in the average balance of such deposits from \(\foware\) \(\foware\) 4.861 billion in 2020 to \(\foware\) 38,374 billion in 2021.

The decreases in the average cost of Won-denominated time and savings deposits and other deposits were primarily attributable to the lower overall level of interest rates prevailing in Korea in 2021 compared to 2020, while the increases in the average volume of Won-denominated time and savings deposits and other deposits

mainly reflected customers' continuing preference for low-risk products and institutions in Korea in light of the continuing uncertainty in financial markets in 2021 resulting from the COVID-19 pandemic.

Overall, the average cost of deposits decreased by 27 basis points from 0.91% in 2020 to 0.64% in 2021, while the average volume of deposits increased 10.1% from \(\formall \)272,211 billion in 2020 to \(\formall \)299,574 billion in 2021.

The 18.5% decrease in interest expense on borrowings from \(\foatsu270\) billion in 2020 to \(\foatsu220\) billion in 2021 was primarily due to a 31 basis point decrease in the average cost of borrowings from 1.26% in 2020 to 0.95% in 2021, which mainly reflected the lower overall level of interest rates prevailing in Korea in 2021 compared to 2020. Such decrease was partially offset by an 8.6% increase in the average balance of borrowings from \(\foatsu21,368\) billion in 2020 to \(\foatsu23,216\) billion in 2021, which was mainly attributable to our increased use of borrowings to meet our funding needs in light of the lower interest rate environment in Korea.

The 0.6% increase in interest expense on debentures from \(\foat{W}723\) billion in 2020 to \(\foat{W}727\) billion in 2021 was primarily due to a 26.7% increase in the average balance of debentures from \(\foat{W}32,315\) billion in 2020 to \(\foat{W}40,935\) billion in 2021, which was mostly offset by a 46 basis point decrease in the average cost of debentures from 2.24% in 2020 to 1.78% in 2021. The increase in the average balance of debentures mainly reflected additional debentures attributable to the addition of Woori Financial Capital as a consolidated subsidiary starting on October 20, 2020, while the decrease in the average cost of debentures was mainly due to the lower overall level of interest rates prevailing in Korea in 2021 compared to 2020.

Net Interest Margin. Net interest margin represents the ratio of net interest income to average interest-earning assets. Our overall net interest margin increased from 1.65% in 2020 to 1.74% in 2021, as a 16.5% increase in our net interest income from \(\pi\)5,998 billion in 2020 to \(\pi\)6,986 billion in 2021 outpaced a 10.5% increase in the average balance of our interest-earning assets from \(\pi\)363,234 billion in 2020 to \(\pi\)401,368 billion in 2021. The increase in interest income was enhanced by a decrease in interest expense, resulting in the increase in net interest income. The growth in average interest-earning assets was mostly offset by an increase in average interest-bearing liabilities from \(\pp\)347,004 billion in 2020 to \(\pp\)384,650 billion in 2021. The increase in net interest margin was driven mainly by an increase in our net interest spread, which represents the difference between the average yield on our interest-earning assets and the average cost of our interest-bearing liabilities, from 1.60% in 2020 to 1.71% in 2021. The increase in our net interest spread reflected a larger decrease in the average cost of interest-bearing liabilities compared to the decrease in the yield on interest-earning assets between the two periods, primarily due to the earlier adjustment of interest rates on interest-earning assets compared to interest rates on interest-bearing liabilities in the context of a lower interest rate environment in 2021 compared to 2020.

# Impairment Losses Due to Credit Loss

The following table shows, for the years indicated, the components of our impairment losses due to credit loss.

	Year ended December 31,					Percentage change		
	2020		2	2021		2022	2021/2020	2022/2021
		(in	billio	ns of W	on)		(%	6)
Impairment loss due to credit loss on financial assets measured at fair value through other comprehensive								
income	₩	(2)	₩	(5)	₩	1	150.0%	$N/M^{(1)}$
Reversal of (provision for) impairment loss due to credit								
loss on securities at amortized cost		1		(1)		(3)	$N/M^{(1)}$	200
Provisions for credit loss on loans and other financial								
assets at amortized cost		(791)		(552)		(882)	(30.2)	59.8
Reversal of provisions on (provisions for) guarantees		18		11		(7)	(38.9)	$N/M^{(1)}$
Reversal of provisions on (provisions for) unused loan						` '	, ,	
commitments		(10)		10		6	$N/M^{(1)}$	(40)
Total impairment losses due to credit loss	₩	(784)	₩	(537)	₩	(885)	(31.5)	64.8

<sup>(1)</sup> N/M = not meaningful.

### Comparison of 2022 to 2021

Our impairment losses due to credit loss increased 64.8% from \www.537 billion in 2021 to \www.885 billion in 2022, primarily due to a 59.8% increase in provisions for credit loss on loans and other financial assets at amortized cost from \www.552 billion in 2021 to \www.882 billion in 2022. Such increase in provisions for credit loss on loans and other financial assets at amortized cost was primarily due to our preemptive measures to account for a potential increase in expected credit loss that could result from a deterioration in the overall asset quality due to the adverse changes in economic conditions in Korea and globally in 2022.

# Comparison of 2021 to 2020

Our impairment losses due to credit loss decreased 31.5% from \text{\text{W}}784 billion in 2020 to \text{\text{\text{W}}537} billion in 2021, primarily due to a 30.2% decrease in provisions for credit loss on loans and other financial assets at amortized cost from \text{\text{\text{W}}791} billion in 2020 to \text{\text{\text{W}}552} billion in 2021. Such decrease in provisions for credit loss on loans and other financial assets at amortized cost was primarily due to increases in provision for loan losses in respect of our corporate and consumer loan portfolios in 2020, which were not repeated in 2021. Such increases in 2020 were mainly attributable to our preemptive measures to account for a potential increase in expected credit loss that could result from a deterioration in the overall asset quality of our corporate and consumer loan portfolios due to the COVID-19 pandemic.

# Allowance for Credit Losses

For information on our allowance for credit losses, see "Item 4.B. Business Overview—Assets and Liabilities—Loan Portfolio—Allocation and Analysis of Allowances for Credit Losses."

## Corporate Loans

The following table shows, for the years indicated, certain information regarding our impaired corporate loans (including government loans and bank loans):

	As of	f December 3	31,
	2020	2021	2022
Impaired corporate loans as a percentage of total corporate loans	0.5%	0.3%	0.5%
Allowance for credit losses for corporate loans as a percentage of total corporate			
loans	0.8	0.7	0.8
Allowance for credit losses for corporate loans as a percentage of impaired			
corporate loans	172.4	219.7	159.9
Net charge-offs of corporate loans as a percentage of total corporate loans	0.1	0.1	0.0

During 2022, both impaired corporate loans and allowance for credit losses for corporate loans, each as a percentage of total corporate loans, increased primarily due to a deterioration in the overall credit quality of our corporate loans, which outpaced an increase in the total amount of our corporate loans from \(\frac{\pmathbf{W}}{179,717}\) billion as of December 31, 2021 to \(\frac{\pmathbf{W}}{191,101}\) billion as of December 31, 2022. However, allowance for credit losses for corporate loans as a percentage of impaired corporate loans decreased during 2022, as a 26.2% increase in allowance for credit losses for corporate loans from \(\frac{\pmathbf{W}}{1,191}\) billion as of December 31, 2021 to \(\frac{\pmathbf{W}}{1,503}\) billion as of December 31, 2022 was outpaced by a 73.4% increase in impaired corporate loans from \(\frac{\pmathbf{W}}{542}\) billion as of December 31, 2021 to \(\frac{\pmathbf{W}}{940}\) billion as of December 31, 2022. The increase in our impaired corporate loans was mainly attributable to the deterioration of the overall asset quality of our corporate loan portfolio due to the adverse changes in economic conditions in Korea and globally in 2022. The increase in our allowance for credit losses for corporate loans was mainly attributable to our preemptive measures to account for a potential increase in expected credit loss that could result from a deterioration in the overall asset quality of our corporate loan portfolio caused by the potentially adverse economic conditions in Korea and globally in 2023 and beyond. Net charge-offs of corporate loans as a percentage of total corporate loans represented 0.1% and 0.0% as of December 31, 2021 and 2022, respectively.

During 2021, impaired corporate loans and allowance for credit losses for corporate loans, each as a percentage of total corporate loans, decreased primarily due to an increase in the total amount of our corporate loans from \(\frac{\text{\$\text{\$W}}}157,303\) billion as of December 31, 2020 to \(\frac{\text{\$\text{\$\text{\$W}}}179,717\) billion as of December 31, 2021. However, allowance for credit losses for corporate loans as a percentage of impaired corporate loans increased during 2021, as a 3.8% decrease in allowance for credit losses for corporate loans from \(\frac{\text{\$\text{\$\text{\$\text{\$W}}}}1,191\) billion as of December 31, 2021 was outpaced by a 24.5% decrease in impaired corporate loans from \(\frac{\text{\$\tex

### Consumer Loans and Credit Card Balances

The following table shows, for the years indicated, certain information regarding our impaired loans to the consumer sector, excluding credit card balances:

	As of	December 3	31,
	2020	2021	2022
Impaired consumer loans as a percentage of total consumer loans	0.4%	0.3%	0.4%
Allowance for credit losses for consumer loans as a percentage of total consumer loans	0.3	0.3	0.4
Allowance for credit losses for consumer loans as a percentage of impaired			
consumer loans	76.7	88.0	93.6
Net charge-offs of consumer loans as a percentage of total consumer loans	0.1	0.1	0.1

Our impaired consumer loans and allowance for credit losses for consumer loans, each as a percentage of total consumer loans, increased from 0.3% in 2021 to 0.4% in 2022 as a 12.8% increase in impaired consumer loans from \text{\$\psi}500\$ billion as of December 31, 2021 to \text{\$\psi}564\$ billion as of December 31, 2022 was enhanced by a 3.0% decrease in total consumer loans from \text{\$\psi}148,361\$ billion as of December 31, 2021 to \text{\$\psi}143,940\$ billion as of December 31, 2022. Allowance for credit losses for consumer loans as a percentage of impaired consumer loans also increased, as a 20.0% increase in allowance for credit losses for consumer loans from \text{\$\psi}440\$ billion as of December 31, 2021 to \text{\$\psi}528\$ billion as of December 31, 2022 outpaced the increase in impaired consumer loans due to the expected deterioration in the overall asset quality of our consumer loan portfolio caused by the adverse changes in economic conditions in Korea and globally in 2022. Net charge-offs of consumer loans as a percentage of total consumer loans remained stable at 0.1% as of December 31, 2021 and 2022.

During 2021, allowance for credit losses and net charge-offs, each as a percentage of total consumer loans, remained stable at 0.3% and 0.1% respectively. Impaired consumer loans as a percentage of total consumer loans decreased as a 6.9% decrease in impaired consumer loans from \wxi537 billion as of December 31, 2020 to \wxi500 billion as of December 31, 2021 was enhanced by an 8.0% increase in total consumer loans from \wxi138,119 billion as of December 31, 2020 to \wxi148,361 billion as of December 31, 2021. However, allowance for credit losses for consumer loans as a percentage of impaired consumer loans increased, as a 6.8% increase in allowance for credit losses for consumer loans from \wxi412 billion as of December 31, 2020 to \wxi440 billion as of December 31, 2021 was enhanced by the decrease in impaired consumer loans. The decrease in impaired consumer loans was mainly attributable to our active efforts to charge off impaired consumer loans to improve the overall quality of our consumer loan portfolio, while the increase in allowance for credit losses for consumer loans was mainly attributable to the increase in our total consumer loans.

The following table shows, for the years indicated, certain information regarding our impaired credit card balances:

	As o	f December 3	31,
	2020	2021	2022
	2.1%	1.2%	1.7%
Allowance for credit losses for credit card balances as a percentage of total credit			
card balances <sup>(1)</sup>	3.0	2.6	2.9
Allowance for credit losses for credit card balances as a percentage of impaired			
credit card balances <sup>(1)</sup>	143.9	219.8	169.3
Net charge-offs of credit card balances as a percentage of total credit card			
balances <sup>(1)</sup>	2.1	1.6	1.6

<sup>(1)</sup> Includes corporate credit card balances.

During 2022, impaired credit card balances and allowance for credit losses for credit card balances, each as a percentage of total credit card balances, increased mainly because a deterioration in the overall credit quality of our credit card portfolio outpaced a 6.3% increase in total credit card balances from \$0,757 billion as of

December 31, 2021 to \(\foadsigma)10,370\) billion as of December 31, 2022. However, allowance for credit losses for credit card balances as a percentage of impaired credit card balances decreased, as a 18.8% increase in our allowance for credit losses for credit card balances from \(\foadsigma)255\) billion as of December 31, 2021 to \(\foadsigma)303\) billion as of December 31, 2022 was outpaced by a 54.3% increase in impaired credit card balances from \(\foadsigma)116\) billion as of December 31, 2021 to \(\foadsigma)179\) billion as of December 31, 2022. Net charge-offs of credit card balances as a percentage of total credit card balances remained stable at 1.6% as of December 31, 2021 and 2022.

During 2021, impaired credit card balances and allowance for credit losses for credit card balances, each as a percentage of total credit card balances, decreased mainly due to a decrease in delinquency rates due to heightened credit review standards, as well as a 14.2% increase in total credit card balances from \(\frac{\text{W}}{8}\),543 billion as of December 31, 2020 to \(\frac{\text{W}}{9}\),757 billion as of December 31, 2021. However, allowance for credit losses for credit card balances as a percentage of impaired credit card balances increased, as a 1.5% decrease in our allowance for credit losses for credit card balances from \(\frac{\text{W}}{259}\) billion as of December 31, 2020 to \(\frac{\text{W}}{255}\) billion as of December 31, 2021 was outpaced by a 35.6% decrease in impaired credit card balances from \(\frac{\text{W}}{180}\) billion as of December 31, 2021. Net charge-offs of credit card balances as a percentage of total credit card balances decreased mainly as a result of a 13.9% decrease in net charge-offs of credit card balances from \(\frac{\text{W}}{180}\) billion as of December 31, 2020 to \(\frac{\text{W}}{155}\) billion as of December 31, 2021, primarily due to the decrease in delinquency rates due to heightened credit review standards, as well as the decrease in total credit card balances.

#### Net Fees and Commissions Income

The following table shows, for the years indicated, the components of our net fees and commissions income:

	Year e	nded Decemb	Percentag	ge change	
	2020 2021 20		2022	2021/2020	2022/2021
	(in	billions of Wo	(%	6)	
Fees and commissions income	₩ 1,694	<b>₩</b> 2,172	₩ 2,500	28.2%	15.1%
Fees and commissions expense	(680)	(701)	(790)	3.1	12.7
Total fees and commissions income, net	₩ 1,014	₩ 1,471	₩ 1,710	45.1	16.2

## Comparison of 2022 to 2021

Our net fees and commissions income increased 16.2% from \$1,471 billion in 2021 to \$1,710 billion in 2022, mainly due to a 15.1% increase in fees and commissions income from \$2,172 billion in 2021 to \$2,500 billion in 2022, which was partially offset by a 12.7% increase in fees and commissions expense from \$701 billion in 2021 to \$790 billion in 2022.

The 15.1% increase in fees and commissions income was primarily due to a 52.8% increase in fees and commissions related to leases from \\ \forall 375 \text{ billion} in 2021 to \( \forall 573 \text{ billion} in 2022, a 3.8% increase in fees and commissions received on credit cards from \( \forall 573 \text{ billion} in 2021 to \( \forall 595 \text{ billion} in 2022 and a 23.1% increase in fees and commissions from trust management from \( \forall 216 \text{ billion} in 2021 to \( \forall 266 \text{ billion} in 2022. The increase in fees and commissions related to leases was mainly due to the increased fees and commissions received related to leases of Woori Financial Capital, the increase in fees and commissions received on credit cards was mainly attributable to an increase in credit card transactions resulting from the easing of COVID-19 social distancing requirements and the subsequent increase in consumer spending, and the increase in fees and commissions from trust management was primarily attributable to increases in compensation relating to the management of land trusts in the form of construction completion guarantees.

The 12.7% increase in fees and commissions expense was primarily due to a 24.4% increase in fees and commissions paid from \(\foathbb{W}\)262 billion in 2021 to \(\foathbb{W}\)326 billion in 2022. The increase in fees and commissions paid was primarily attributable to an increase in foreign currency payment related fees paid at Woori Bank and an increase in Won payment related fees paid at Woori Card.

# Comparison of 2021 to 2020

Our net fees and commissions income increased 45.1% from \$1,014 billion in 2020 to \$1,471 billion in 2021, mainly due to a 28.2% increase in fees and commissions income from \$1,694 billion in 2020 to \$2,172 billion in 2021, which was partially offset by a 3.1% increase in fees and commissions expense from \$680 billion in 2020 to \$701 billion in 2021.

The 28.2% increase in fees and commissions income was primarily due to a 346.4% increase in fees and commissions related to leases from \text{\$\text{

The 3.1% increase in fees and commissions expense was primarily due to a 6.1% increase in fees and commissions paid from \(\foat\)247 billion in 2020 to \(\foat\)262 billion in 2021. The increase in fees and commissions paid was primarily attributable to the addition of Woori Financial Capital as a consolidated subsidiary starting on October 20, 2020.

For further information regarding our net fees and commissions income, see Note 31 of the notes to our consolidated financial statements included elsewhere in this annual report.

#### Net Gain on Financial Instruments

The following table shows, for the years indicated, the components of our net gain on financial instruments:

	Year ended December 31,					,	Percentage change	
	2020		2021		2	022	2021/2020	2022/2021
		(in	billio	ns of W	on)		(%	)
Net gain on financial instruments at fair value through								
profit or loss	₩	422	₩	326	₩	239	(22.7)%	(26.7)%
Net gain (loss) on financial assets at fair value through								
other comprehensive income		24		33		(21)	37.5	$N/M^{(1)}$
Net gain arising on disposals of financial assets at								
amortized cost		44		107		74	143.2	(30.8)
Total net gain on financial instruments	₩	490	₩	466	₩	292	(4.9)	(37.3)

<sup>(1)</sup> N/M = not meaningful.

# Comparison of 2022 to 2021

Our net gain on financial instruments decreased 37.3% from \darksquare\darksquare 466 billion in 2021 to \darksquare\darksquare 292 billion in 2022. This decrease was primarily attributable to a 26.7% decrease in net gain on financial instruments at fair value through profit or loss from \darksquare\darksquare 326 billion in 2021 to \darksquare\darksquare 239 billion in 2022, and a 30.8% decrease in net gain arising on disposals of financial assets at amortized cost from \darksquare 107 billion in 2021 to \darksquare 74 billion in 2022.

The 26.7% decrease in net gain on financial instruments at fair value through profit or loss resulted mainly from a change from a net loss on the transaction and valuation of currency derivatives of \(\forall 29\) billion in 2021 to a net loss on the transaction and valuation of currency derivatives of \(\forall 1,111\) billion in 2022. This was offset in significant part by a change from a net gain on the transaction and valuation of interest rate derivatives of \(\forall 273\) billion in 2021 to a net gain on the transaction and valuation of interest rate derivatives of \(\forall 1,591\) billion in 2022.

The 30.8% decrease in net gain arising on disposals of financial assets at amortized cost was primarily because in 2021 we realized gains on sales of project finance loans, but that did not occur in 2022, and also because our gains on sales of our non-performing card receivables decreased in 2022 compared to 2021.

### Comparison of 2021 to 2020

Our net gain on financial instruments decreased 4.9% from \text{\text{\$\psi}}490 billion in 2020 to \text{\text{\$\psi}}466 billion in 2021. This decrease was primarily attributable to a 22.7% decrease in net gain on financial instruments at fair value through profit or loss from \text{\text{\$\psi}}422 billion in 2020 to \text{\text{\$\psi}}326 billion in 2021, which was partially offset by a 143.2% increase in net gain arising on disposals of financial assets at amortized cost from \text{\text{\$\psi}}44 billion in 2020 to \text{\text{\$\psi}}107 billion in 2021.

The 22.7% decrease in net gain on financial instruments at fair value through profit or loss resulted mainly from a change from a net gain on the transaction and valuation of currency derivatives of \(\formag{W}656\) billion in 2020 to a net loss on the transaction and valuation of currency derivatives of \(\formag{W}29\) billion in 2021. This was offset in significant part by a change from a net loss on the transaction and valuation of interest rate derivatives of \(\formag{W}271\) billion in 2020 to a net gain on the transaction and valuation of interest rate derivatives of \(\formag{W}273\) billion in 2021.

The 143.2% increase in net gain arising on disposals of financial assets at amortized cost was primarily attributable to gains realized on sales of certain of our non-performing card loans and project finance loans in 2021, which did not occur in 2020.

For further information regarding our net gain on financial instruments, see Notes 33 and 34 of the notes to our consolidated financial statements included elsewhere in this annual report.

# General and Administrative Expenses

The following table shows, for the years indicated, the components of our general and administrative expenses:

	Year	ended Deceml	Percentag	ge change	
	2020	2021	2022	2021/2020	2022/2021
	(in billions of Won)				6)
Employee benefits	₩ 2,533	₩ 2,701	₩ 2,912	6.6%	7.8%
Depreciation and amortization	521	524	522	0.6	(0.4)
Other general and administrative expenses	902	922	1,096	2.2	18.9
General and administrative expenses	₩ 3,956	₩ 4,147	₩ 4,530	4.8	9.2

## Comparison of 2022 to 2021

Our general and administrative expenses increased 9.2% from  $\mathbb{W}4,147$  billion in 2021 to  $\mathbb{W}4,530$  billion in 2022, primarily as a result of a 7.8% increase in employee benefits from  $\mathbb{W}2,701$  billion in 2021 to  $\mathbb{W}2,912$  billion in 2022, which was enhanced by a 18.9% increase in other general and administrative expenses from  $\mathbb{W}922$  billion in 2021 to  $\mathbb{W}1,096$  billion in 2022.

The 7.8% increase in employee benefits was primarily due to an 10.8% increase in short-term employee benefits, which include salaries and other employee benefits, from \(\foware 2.321\) billion in 2021 to \(\foware 2.571\) billion in 2022. Such increase was partially offset by a 6.6% decrease in termination benefits from \(\foware 181\) billion in 2021 to \(\foware 169\) billion in 2022. The increase in short-term employee benefits was principally due to an increase in employee salaries as a result of an increase in average wages. The decrease in termination benefits was due to a decrease in payments through our early retirement program.

The 18.9% increase in other general and administrative expenses was principally due to increases in advertising expenses, and expenses relating to taxes and public utilities' charges.

# Comparison of 2021 to 2020

Our general and administrative expenses increased 4.8% from \$3,956 billion in 2020 to \$4,147 billion in 2021, primarily as a result of a 6.6% increase in employee benefits from \$2,533 billion in 2020 to \$2,701 billion in 2021, which was enhanced by a 2.2% increase in other general and administrative expenses from \$902 billion in 2020 to \$922 billion in 2021.

The 6.6% increase in employee benefits was primarily due to an 8.3% increase in short-term employee benefits, which include salaries and other employee benefits, from \(\foat{\psi}\)2,144 billion in 2020 to \(\foat{\psi}\)2,321 billion in 2021. Such increase was partially offset by a 10.4% decrease in termination benefits from \(\foat{\psi}\)202 billion in 2020 to \(\foat{\psi}\)181 billion in 2021. The increase in short-term employee benefits was principally due to an increase in employee salaries due to an increase in average wages as well as the number of employees primarily attributable to the addition of Woori Financial Capital as a consolidated subsidiary on October 20, 2020. The decrease in termination benefits was due to a decrease in payments through our early retirement program.

The 2.2% increase in other general and administrative expenses was principally due to increases in telephone and communication expenses, advertising expenses and building maintenance expenses.

For further information regarding our general and administrative expenses, see Note 36-(1) of the notes to our consolidated financial statements included elsewhere in this annual report.

### Other Net Operating Expenses

The following table shows, for the years indicated, the components of our other net operating expenses:

	Year ended December 31,					Percentag	ge change	
	2020		2020 2021		2022	2021/2020	2022/2021	
	(in billions of Won)				on)	(%)		
Other operating income	₩	899	₩	903	₩ 1,982	0.4%	119.5%	
Other operating expenses	(	1,719)	(	1,790)	(2,994)	4.1	67.3	
Total other net operating expenses	₩	(820)	₩	(887)	₩(1,012)	8.2%	14.1%	

# Comparison of 2022 to 2021

Our other net operating expenses increased 14.1% from \$887 billion in 2021 to \$1,012 billion in 2022, as a 67.3% increase in other operating expenses from \$1,790 billion in 2021 to \$2,994 billion in 2022 was partially offset by a 119.5% increase in other operating income from \$903 billion in 2021 to \$1,982 billion in 2022.

Other operating expenses include principally losses on transaction of foreign exchange, KDIC deposit insurance premiums, contributions to miscellaneous funds, losses related to derivatives designated for hedging, losses on fair value hedged items and miscellaneous other operating expenses. The 67.3% increase in other operating expenses was primarily the result of a 162.1% increase in loss on transactions of foreign exchange from \text{\$\psi}\$451 billion in 2021 to \text{\$\psi}\$1,182 billion in 2022, and was enhanced by a 56.6% increase in miscellaneous other operating expenses from \text{\$\psi}\$470 billion in 2021 to \text{\$\psi}\$736 billion in 2022. The increase in miscellaneous other operating expenses was primarily due to an increase in lease depreciation costs from \text{\$\psi}\$251 billion in 2021 to \text{\$\psi}\$389 billion in 2022 resulting from the increase in lease depreciation costs incurred by Woori Financial Capital. The increase in losses on transaction of foreign exchange, which was principally due to higher exchange rate volatility in 2022 compared to 2021, was mostly offset by a 149.2% increase in gains on transaction of foreign exchange from \text{\$\psi}\$563 billion in 2021 to \text{\$\psi}\$1,403 billion in 2022, which is recorded as part of other operating income. On a net basis, net gain on transaction of foreign exchange increased 97.3% from \text{\$\psi}\$112 billion in 2021 to \text{\$\psi}\$221 billion in 2022.

Other operating income includes principally gains on transactions of foreign exchange, gains related to derivatives designated for hedging, gains on fair value hedged items and miscellaneous other operating income. The 119.5% increase in other operating income was mainly attributable to a 149.2% increase in gains on

transaction of foreign exchange from \\$\forall 563\$ billion in 2021 to \\$\forall 1,403\$ billion in 2022, a 45.3% increase in miscellaneous other operating income from \\$\forall 172\$ billion in 2021 to \\$\forall 250\$ billion in 2022 and a 143.4% increase in gains on fair value hedged items from \\$\forall 106\$ billion in 2021 to \\$\forall 258\$ billion in 2022. The increase in miscellaneous other operating income was primarily due to an increase in our gains from disposals of lease assets by Woori Financial Capital. The increase in gains on transactions of foreign exchange, which was principally due to higher exchange rate volatility in 2022 compared to 2021, was partially offset by an increase in losses on transactions of foreign exchange, which is recorded as part of other operating expenses as discussed above.

### Comparison of 2021 to 2020

Our other net operating expenses increased 8.2% from \displays 820 billion in 2020 to \displays 887 billion in 2021, as a 4.1% increase in other operating expenses from \displays 1,719 billion in 2020 to \displays 1,790 billion in 2021 was in small part offset by a 0.4% increase in other operating income from \displays 899 billion in 2020 to \displays 903 billion in 2021.

Other operating expenses include principally losses on transaction of foreign exchange, KDIC deposit insurance premiums, contributions to miscellaneous funds, losses related to derivatives designated for hedging, losses on fair value hedged items and miscellaneous other operating expenses. The 4.1% increase in other operating expenses was primarily the result of a 147.4% increase in miscellaneous other operating expenses, which was in significant part offset by a 33.6% decrease in loss on transactions of foreign exchange from \$\text{W679}\$ billion in 2020 to \$\text{W451}\$ billion in 2021. The increase in miscellaneous other operating expenses was primarily due to an increase in lease depreciation costs from \$\text{W53}\$ billion in 2020 to \$\text{W251}\$ billion in 2021 resulting from the addition of Woori Financial Capital as a consolidated subsidiary on October 20, 2020. The decrease in losses on transaction of foreign exchange, which was principally due to lower exchange rate volatility in 2021 compared to 2020, was mostly offset by a 25.7% decrease in gains on transaction of foreign exchange from \$\text{W758}\$ billion in 2020 to \$\text{W563}\$ billion in 2021, which is recorded as part of other operating income. On a net basis, net gain on transaction of foreign exchange increased 41.8% from \$\text{W79}\$ billion in 2020 to \$\text{W112}\$ billion in 2021.

Other operating income includes principally gains on transactions of foreign exchange, gains related to derivatives designated for hedging, gains on fair value hedged items and miscellaneous other operating income. The 0.4% increase in other operating income was mainly attributable to a 168.8% increase in miscellaneous other operating income from \text{\$\psi}\$64 billion in 2020 to \text{\$\psi}\$172 billion in 2021 and a significant increase in gains on fair value hedged items from \text{\$\psi}\$10 billion in 2020 to \text{\$\psi}\$106 billion in 2021, which was mostly offset by a 25.7% decrease in gains on transaction of foreign exchange from \text{\$\psi}\$758 billion in 2020 to \text{\$\psi}\$563 billion in 2021. The increase in miscellaneous other operating income was primarily due to an increase in our gains from disposals of lease assets resulting from the addition of Woori Financial Capital as a consolidated subsidiary on October 20, 2020. The decrease in gains on transactions of foreign exchange, which was principally due to lower exchange rate volatility in 2021 compared to 2020, was more than offset by a greater decrease in losses on transactions of foreign exchange, which is recorded as part of other operating expenses as discussed above.

For further information regarding our other net operating expenses, see Notes 36-(2) and (3) of the notes to our consolidated financial statements included elsewhere in this annual report.

## Net Other Non-operating Expenses

The following table shows, for the years indicated, the components of our net other non-operating expenses:

		Year e	nded	Decemb	Percentage change				
	2020		2	021		2022	2021/2020	2022/2021	
	(in billions of Won)						(%)		
Other non-operating income	₩	133	₩	188	₩	159	41.4%	(15.4)%	
Other non-operating expenses		(313)		(223)		(112)	(28.8)	(49.8)	
Total net other non-operating income (expenses)	₩	(180)	₩	(35)	₩	47	(80.6)%	$N/M^{(1)}$	

<sup>(1)</sup> N/M = not meaningful.

# Comparison of 2022 to 2021

The change from a net other non-operating expenses of \(\mathbb{W}\)35 to a net other non-operating income of \(\mathbb{W}\)47 is resulted by a 49.8% decrease in other non-operating expenses from \(\mathbb{W}\)223 billion in 2021 to \(\mathbb{W}\)112 billion in 2022, and a 15.4% decrease in other non-operating income from \(\mathbb{W}\)188 billion in 2021 to \(\mathbb{W}\)159 billion in 2022.

Other non-operating expenses include principally depreciation on investment properties, operating expenses on investment properties, losses on disposal of investments in joint ventures and associates, losses on disposal of premises and equipment, intangible assets and other assets, impairment losses on premises and equipment, intangible assets and other assets, donations and miscellaneous other non-operating expenses. The 49.8% decrease in other non-operating expenses from \(\forall \)223 billion in 2021 to \(\forall \)112 billion in 2022 was mainly attributable to a misappropriation of funds from Woori Bank by one of its employees in 2012, 2015 and 2018, which was discovered in April 2022 and recorded as a non-operating expense for 2021.

Other non-operating income includes principally rental fee income, gain on disposal of investment in joint ventures and associates, gain on disposal of premises and equipment, intangible assets and other assets, reversal of impairment loss on premises and equipment, intangible assets and other assets and miscellaneous other non-operating income. The 15.4% decrease in other non-operating income was primarily attributable to a significant decrease in gains on disposal of investment in joint ventures and associates from \text{\text{W}}71 billion in 2021 to \text{\$\psi}\$1 billion in 2022, which was partially offset by a 9.8% increase in gains on disposal of premises and equipment, intangible assets and other assets from \text{\psi}51 billion in 2021 to \text{\psi}56 billion in 2022, and a 54.9% increase in miscellaneous other non-operating income from \widtharpoonup 51 billion in 2021 to \widtharpoonup 79 billion in 2022. The decrease in gains on disposal of investment in joint ventures and associates was mainly due to gains in 2021 from our decrease in share ownership interest in Kbank resulting from our non-participation in the capital increase of Kbank, but similar transactions did not occur in 2022, and the increase in gains on disposal of premises and equipment, intangible assets and other assets was primarily due to the sale of Woori Bank's real estate assets. The increase in miscellaneous other non-operating income was principally due to the return of settlement reserves relating to the U.S. sanctions and Lime investigations. See "Item 3.D. Other Risks Relating to Our Business" and "Item 8.A. Consolidated Statements and Other Financial Information—Legal Proceedings and Regulatory Actions."

# Comparison of 2021 to 2020

The change from a net other non-operating expenses of \www.180 to a net other non-operating income of \www.35 is resulted by a 28.8% decrease in other non-operating expenses from \www.313 billion in 2020 to \www.223 billion in 2021 was enhanced by a 41.4% increase in other non-operating income from \www.133 billion in 2020 to \www.188 billion in 2021.

Other non-operating expenses include principally depreciation on investment properties, operating expenses on investment properties, losses on disposal of premises and equipment, intangible assets and other assets, impairment losses on premises and equipment, intangible assets and other assets, donations and miscellaneous other non-operating expenses. The 28.8% decrease in other non-operating expenses was mainly attributable to a 55.5% decrease in miscellaneous other non-operating expenses from \(\frac{\pi}{2}\)254 billion in 2020 to \(\frac{\pi}{113}\) billion in 2021, which was primarily due to provisions relating to the estimated reimbursements and other payments in connection with Woori Bank's sale of trade finance funds managed by Lime Asset Management Co. as well as derivative-linked fund and securities products tied to yields on treasury bonds of Germany and the United Kingdom. See "Item 8.A. Consolidated Statements and Other Financial Information—Legal Proceedings and Regulatory Actions." Such decrease was partially offset by provisions relating to the misappropriation of funds from Woori Bank by one of its employees in 2012, 2015 and 2018, which was discovered in April 2022 and recorded as a non-operating expense for 2021.

Other non-operating income includes principally rental fee income, gain on disposal of investment in joint ventures and associates, gain on disposal of premises and equipment, intangible assets and other assets, reversal of impairment loss on premises and equipment, intangible assets and other assets and miscellaneous other non-operating income. The 41.4% increase in other non-operating income was primarily attributable to a

significant increase in gains on disposal of investment in joint ventures and associates from \(\mathbb{W}\)3 billion in 2020 to \(\mathbb{W}\)71 billion in 2021 and a 410.0% increase in gains on disposal of premises and equipment, intangible assets and other assets from \(\mathbb{W}\)10 billion in 2020 to \(\mathbb{W}\)51 billion in 2021, which was partially offset by a 51.4% decrease in miscellaneous other non-operating income from \(\mathbb{W}\)105 billion in 2020 to \(\mathbb{W}\)51 billion in 2021. The increase in gains on disposal of investment in joint ventures and associates was mainly attributable to our non-participation in the capital increase of Kbank, in accordance with the decrease in our share of ownership interest in Kbank, and the increase in gains on disposal of premises and equipment, intangible assets and other assets was primarily due to our sale of equity assets obtained from debt-equity swaps. The decrease in miscellaneous other non-operating income was principally due to additional income of \(\mathbb{W}\)67 billion in 2020 from the liquidation of funds and bargain purchases resulting from the addition of Woori Financial Capital as a consolidated subsidiary on October 20, 2020, that was not repeated in 2021.

For further information regarding our net other non-operating income (expenses), see Notes 37-(3) and (4) of the notes to our consolidated financial statements included elsewhere in this annual report.

# Share of Gain (Loss) on Joint Ventures and Associates

Comparison of 2022 to 2021

Our share of gain on joint ventures and associates increased 12.9% from \textbf{\textit{W}}62 billion 2021 to \textbf{\textit{W}}70 billion in 2022. Such increase was primarily due to a 23.8% increase in our gains on valuation of investments in joint ventures and associates from \textbf{\text{W}}80 billion in 2021 to \textbf{\text{W}}99 billion in 2022, resulting mainly from an increase in the share of profits from Lotte Card Co., Ltd.

Comparison of 2021 to 2020

Our share of gain on joint ventures and associates decreased 38.6% from \text{\$\psi\$101 billion 2020 to \$\psi\$62 billion in 2021. Such decrease was primarily due to a 36.5% decrease in our gains on valuation of investments in joint ventures and associates from \text{\$\psi\$126 billion in 2020 to \$\psi\$80 billion in 2021, resulting mainly from the liquidation of our Well to Sea No.3 Private Equity Fund in 2020.

For further information regarding our investments in joint ventures and associates, see Note 13 of the notes to our consolidated financial statements included elsewhere in this annual report.

## Income Tax Expense

Our income tax expense is calculated by adding or subtracting changes in deferred income tax liabilities and assets to income tax amounts payable for the period. Deferred tax assets are recognized for deductible temporary differences, including operating losses and tax credit carry-forwards, while deferred tax liabilities are recognized for taxable temporary differences. Temporary differences are those between the carrying values of assets and liabilities for financial reporting purposes and their tax bases. Deferred tax assets, including the carry-forwards of unused tax losses, are recognized to the extent it is probable that the deferred tax assets will be realized.

Comparison of 2022 to 2021

Income tax expense increased 27.4% from \(\precenture{\psi}\)925 billion in 2021 to \(\precenture{\psi}\)1,178 billion in 2022, mainly as a result of a 23.4% increase in our net income before income tax expense from \(\precenture{\psi}\)3,687 billion in 2021 to \(\precenture{\psi}\)4,548 billion in 2022. Our effective tax rate was 25.1% in 2021 and 25.9% in 2022.

Comparison of 2021 to 2020

Income tax expense increased 90.3% from \(\foat\)486 billion in 2020 to \(\foat\)925 billion in 2021, mainly as a result of an 87.4% increase in our net income before income tax expense from \(\foat\)2,001 billion in 2020 to \(\foat\)3,687 billion in 2021. Our effective tax rate was 24.3% in 2020 and 25.1% in 2021.

For further information regarding our income tax expense, see Note 38 of the notes to our consolidated financial statements included elsewhere in this annual report.

### Net Income

Comparison of 2022 to 2021

Due to the factors described above, our net income increased by 22.0% from \$2,762 billion in 2021 to \$3,369 billion in 2022.

Comparison of 2021 to 2020

Due to the factors described above, our net income increased by 82.3% from \$1,515 billion in 2020 to \$2,762 billion in 2021.

## **Results by Principal Business Segment**

We compile and analyze financial information for our business segments based upon segment information used by our management for the purposes of resource allocation and performance evaluation. We currently have five operational business segments: banking, credit card, capital, investment banking and other operations. We have added capital as a new business segment following our acquisition of Woori Financial Capital Co., Ltd. (formerly known as Aju Capital Co., Ltd.) in December 2020.

The following table shows, for the years indicated, our results of operations by segment:

		Net income nded Decem			ome <sup>(1)</sup> ber 31,	
	2020	2021 2022		2022 2020		2022
			(in billion	s of Won)		
Banking	₩1,417	₩2,340	₩2,949	₩1,911	₩3,073	₩3,783
Credit card	120	201	205	165	281	285
Capital	_	141	183	_	190	252
Investment banking	63	80	92	70	104	123
Others	652	667	1,265	681	681	1,292
Total <sup>(2)</sup>	₩2,252	₩3,429	₩4,694	₩2,827	₩4,329	₩5,735

<sup>(1)</sup> Comprises net interest income and net non-interest income after administrative expenses and impairment losses due to credit losses.

<sup>(2)</sup> Before adjustments for consolidation, inter-segment transactions and certain differences in classification under our management reporting system.

### **Banking**

This segment primarily consists of the banking operations of Woori Bank and its overseas subsidiaries. Woori Bank provides a wide range of banking and other financial services to large corporations, small- and medium-sized enterprises and individuals in Korea. The following table shows, for the years indicated, our income statement data for this segment:

	Year e	nded Decemb	Percentag	ge change		
	2020	2021	2022	2021/2020	2022/2021	
	(in billions of Wor		on)	(%	%)	
Income statement data						
Net interest income	₩ 4,545	<b>₩</b> 5,158	₩ 6,604	13.5%	28.0%	
Non-interest income	1,423	1,662	1,521	16.8	(8.5)	
Provision for impairment losses due to credit loss and						
others	(512)	(140)	(427)	(72.7)	205.0	
General administrative expenses	(3,545)	(3,607)	(3,915)	1.7	8.5	
Net operating income	1,911	3,073	3,783	60.8	23.1	
Non-operating income (expense)	(57)	40	142	$N/M^{(1)}$	255.0	
Net income before tax	1,854	3,113	3,925	67.9	26.1	
Tax expense	(437)	(773)	(976)	76.9	26.3	
Net income	₩ 1,417	₩ 2,340	₩ 2,949 ———	65.1	26.0	

<sup>(1)</sup> N/M = not meaningful.

### Comparison of 2022 to 2021

Our net income before tax for this segment increased 26.1% from \$3,113 billion in 2021 to \$3,925 billion in 2022. Net income after tax also increased 26.0% from \$2,340 billion in 2021 to \$2,949 billion in 2022.

Net interest income for this segment increased 28.0% from \$\forall 5,158\$ billion in 2021 to \$\forall 6,604\$ billion in 2022, primarily reflecting the increase in the average balance of loans, which was offset in part by the increase in the average balance of deposits, mainly reflecting the increased demand for such products from customers as discussed above, and the higher interest rates prevailing in Korea in 2022 compared to 2021. The impact of such increase was partially offset by the average cost of deposits and other sources of funding resulting from higher overall interest rates prevailing in Korea in 2022 compared to 2021.

Non-interest income attributable to this segment decreased 8.5% from \$1,662 billion in 2021 to \$1,521 billion in 2022, primarily due to losses incurred from the disposal of stock and equity capital, decrease in the valuation of our holdings of stock and equity capital and a decrease in dividend income, which was mainly attributable to decreases in dividends from stock and equity capital.

Impairment losses due to credit loss and others for this segment increased by 205.0% from \$140 billion in 2021 to \$427 billion in 2022, primarily due to our preemptive measures in 2022 to account for a potential increase in expected credit loss that could result from a deterioration in the overall asset quality of our corporate and consumer loan portfolios caused by the potentially adverse economic conditions in Korea and globally in 2023 and beyond.

General administrative expenses attributable to this segment increased 8.5% from \(\mathbb{W}\)3,607 billion in 2021 to \(\mathbb{W}\)3,915 billion in 2022, mainly due to increases in our employee salaries, advertising expenses, and computer and IT related expenses.

Non-operating income (expense) for this segment changed from net expense of \(\formalfont{W}\)40 billion in 2021 to net income of \(\formalfont{W}\)142 billion in 2022, primarily due to the misappropriation of funds from Woori Bank by one of its employees in 2012, 2015 and 2018, which was discovered in April 2022 and recorded as a non-operating expense for 2021, and the increase in valuation of investments in joint ventures and associates.

# Comparison of 2021 to 2020

Our net income before tax for this segment increased 67.9% from \$1,854 billion in 2020 to \$3,113 billion in 2021. Net income after tax also increased 65.1% from \$1,417 billion in 2020 to \$2,340 billion in 2021.

Net interest income for this segment increased 13.5% from \( \forall \)4,545 billion in 2020 to \( \forall \)5,158 billion in 2021, primarily reflecting the increase in the average balance of loans, which was offset in part by the increase in the average balance of deposits, mainly reflecting the increased demand for such products from customers as discussed above. The impact of such increase was partially offset by decreases in the average yield on loans and the average cost of deposits, respectively, principally as a result of the lower overall level of interest rates prevailing in Korea in 2021 compared to 2020.

Non-interest income attributable to this segment increased 16.8% from \(\foathbf{W}\)1,423 billion in 2020 to \(\foathbf{W}\)1,662 billion in 2021, primarily due to an increase in net fees and commissions income, which was mainly due to increases in fees and commissions from trust management, an increase in dividend income, which was mainly attributable to increases in dividends from stock and equity capital, and an increase in gains from our sales of trade receivables.

Impairment losses due to credit loss and others for this segment decreased by 72.7% from \text{\text{\$\psi}}512 billion in 2020 to \text{\text{\$\psi}}140 billion in 2021, primarily due to increases in provision for loan losses in respect of our corporate and consumer loan portfolios in 2020 which significantly decreased in 2021. Such increases in 2020 were mainly attributable to our preemptive measures to account for a potential increase in expected credit loss that could result from a deterioration in the overall asset quality of our corporate and consumer loan portfolios due to the COVID-19 pandemic.

General administrative expenses attributable to this segment increased 1.7% from \$3,545 billion in 2020 to \$3,607 billion in 2021, mainly due to increases in salaries and computer and IT related expenses.

Non-operating income (expense) for this segment changed from net expense of \( \forall 57 \) billion in 2020 to net income of \( \forall 40 \) billion in 2021, primarily due to provisions relating to the estimated reimbursements and other payments in connection with Woori Bank's sale of trade finance funds managed by Lime Asset Management Co. as well as derivative-linked fund and securities products tied to yields on treasury bonds of Germany and the United Kingdom that were incurred in 2020 but not repeated in 2021. Such change was partially offset by provisions relating to the misappropriation of funds from Woori Bank by one of its employees in 2012, 2015 and 2018, which was discovered in April 2022 and recorded as a non-operating expense for 2021.

### Credit Card

This segment consists of the credit card operations of Woori Card. Woori Card offers credit card products and services mainly to consumers and corporate customers in Korea. The following table shows, for the years indicated, our income statement data for this segment:

	Year ended December 31,						Percentage change		
	2020		2021		2	022	2021/2020	2022/2021	
	(in billions of W			ns of W	'on)		(%	<b>%</b> )	
Income statement data									
Net interest income	₩	564	₩	606	₩	675	7.4%	11.4%	
Non-interest income		4		64		111	$N/M^{(1)}$	73.4	
Provision for impairment losses due to credit loss and									
others		(196)		(164)		(239)	(16.3)	45.7	
General administrative expenses		(207)		(225)		(262)	8.7	16.4	
Net operating income		165		281		285	70.3	1.4	
Non-operating expense		(6)		(8)		(6)	33.3	(25.0)	
Net income before tax		159		273		279	71.7	2.2	
Tax expense		(39)		(72)		(74)	84.6	2.8	
Net income	₩	120	₩	201	₩	205	67.5	2.0	

N/M = not meaningful.

### Comparison of 2022 to 2021

Our net income before tax for this segment increased 2.2% from \$273 billion in 2021 to \$279 billion in 2022. Net income after tax also increased 2.0% from \$201 billion in 2021 to \$205 billion in 2022.

Net interest income for this segment increased 11.4% from \(\foat{\psi}606\) billion in 2021 to \(\foat{\ppi}675\) billion in 2022, primarily due to an increase in the average volume of credit card receivables and financial assets receivables.

Non-interest income attributable to this segment increased 73.4% from \(\foat\)64 billion in 2021 to \(\foat\)111 billion in 2022, mainly due to an increase in fees and commissions received on credit cards resulting from increased consumer spending following the recovery from the COVID-19 pandemic.

Impairment losses due to credit loss and others for this segment increased 45.7% from \(\foathbf{W}\)164 billion in 2021 to \(\foathbf{W}\)239 billion in 2022, primarily as a result of an increase in financial assets receivables and preemptive measures to account for a potential increase in expected credit loss caused by an increase in delinquency rates.

General administrative expenses attributable to this segment increased 16.4% from \$225 billion in 2021 to \$262 billion in 2022, mainly due to increases in employee salaries.

Non-operating expense for this segment decreased from \( \foatsize \)8 billion in 2021 to \( \foatsize \)6 billion in 2022, mainly as a result of a decrease in miscellaneous fees and commissions paid.

# Comparison of 2021 to 2020

Our net income before tax for this segment increased 71.7% from \text{\psi}159 billion in 2020 to \text{\psi}273 billion in 2021. Net income after tax also increased 67.5% from \text{\psi}120 billion in 2020 to \text{\psi}201 billion in 2021.

Net interest income for this segment increased 7.4% from \$564 billion in 2020 to \$606 billion in 2021, primarily due to an increase in the average volume of credit card receivables, including cash advances and credit card loans, which was offset in part by a decrease in the average yield on such receivables.

Non-interest income attributable to this segment increased significantly from \( \foatbullet \) 4 billion in 2020 to \( \foatbullet \) 64 billion in 2021, mainly due to an increase in fees and commissions received on credit cards resulting from increased consumer spending following a recovery from the COVID-19 pandemic.

Impairment losses due to credit loss and others for this segment decreased 16.3% from \text{\psi}196 billion in 2020 to \text{\psi}164 billion in 2021, primarily as a result of a decrease in delinquency rates due to heightened credit review standards.

General administrative expenses attributable to this segment increased 8.7% from \(\mathbb{W}\)207 billion in 2020 to \(\mathbb{W}\)225 billion in 2021, mainly due to increases in salaries.

Non-operating expense for this segment increased from \$6 billion in 2020 to \$8 billion in 2021, mainly as a result of an increase in miscellaneous fees and commissions paid.

### Capital

This segment consists of the capital operations of Woori Financial Capital, and was newly established beginning in 2021 following our acquisition of Woori Financial Capital Co., Ltd. (formerly known as Aju Capital Co., Ltd.). Woori Financial Capital mainly provides installment finance services and loan services including lease financing. The following table shows, for the year indicated, our income statement data for this segment:

	Year ended I 2021	Percentage change 2022/2021		
	(in billion	(%)		
Income statement data				
Net interest income	₩ 316	₩ 376	19.0%	
Non-interest income	95	83	(12.6)	
Provision for impairment losses due to credit loss and others	(122)	(107)	(12.3)	
General administrative expenses	(99)	(100)	1.0	
Net operating income	190	252	32.6	
Non-operating expense	(16)	(1)	N/M <sup>(1)</sup>	
Net income before tax	174	251	44.3	
Tax expense	(33)	(68)	106.1	
Net income	₩ 141	₩ 183	29.8	

 $<sup>^{(1)}</sup>$  N/M = not meaningful.

Comparison of 2022 to 2021

Our net income before tax for this segment increased 44.3% from \text{\psi}174 billion in 2021 to \text{\psi}251 billion in 2022. Net income after tax also increased 29.8% from \text{\psi}141 billion in 2021 to \text{\psi}183 billion in 2022.

Net interest income for this segment increased 19.0% from \(\mathbb{W}\)316 billion in 2021 to \(\mathbb{W}\)376 billion in 2022, primarily due to higher overall level of interest rates prevailing in Korea in 2022 compared to 2021 and an increase in the size of our loan portfolio.

Non-interest income attributable to this segment decreased 12.6% from \wodeleftwarpoonup 5 billion in 2021 to \wodeleftwarpoonup 83 billion in 2022, mainly due to a decrease in gains from our invested assets.

Impairment losses due to credit loss and others for this segment decreased 12.3% from \( \mathbb{W}\)122 billion in 2021 to \( \mathbb{W}\)107 billion in 2022, primarily as a result of the sizeable measures taken for the first time in 2021 to account for a potential increase in expected credit loss relating to corporate loans, but similar measures of this scale were not taken in 2022.

General administrative expenses attributable to this segment increased 1.0% from \$99 billion in 2021 to \$100 billion in 2022, mainly due to an increase in advertising and sales promotion expenses.

Non-operating expense (income) for this segment changed from net expense of \(\formu16\) billion in 2021 to net income of \(\formu10\) billion in 2022, mainly as a result of losses sustained from the sale of Woori Savings Bank to Woori Financial Group in 2021, but similar transactions did not occur in 2022.

## **Investment Banking**

This segment consists of the investment banking operations of Woori Investment Bank. Woori Investment Bank mainly provides project finance, structured finance, merger and acquisition financing and financial advisory services. The following table shows, for the years indicated, our income statement data for this segment:

	Year en	ded Decen	nber 31,	Percentage change		
	2020	2021	2022	2021/2020	2022/2021	
	(in b	illions of V	(%)			
Income statement data						
Net interest income	₩ 78	₩108	₩118	38.5%	9.3%	
Non-interest income	34	49	83	44.1	69.4	
Provision for impairment losses due to credit loss and others	(4)	(2)	(16)	(50.0)	700.0	
General administrative expenses	(38)	(51)	(62)	34.2	21.6	
Net operating income	70	104	123	48.6	18.3	
Non-operating expense	(1)		(1)	(100.0)	100.0	
Net income before tax	69	104	122	50.7	17.3	
Tax expense	(6)	(24)	(30)	300.0	25.0	
Net income	₩ 63	₩ 80	₩ 92	27.0	15.0	

# Comparison of 2022 to 2021

Our net income before tax for this segment increased 17.3% from \text{\psi}104 billion in 2021 to \text{\psi}122 billion in 2022. Net income after tax also increased 15.0% from \text{\psi}80 billion in 2021 to \text{\psi}92 billion in 2022.

Net interest income for this segment, which consists mainly of interest income from financing provided to corporations, increased 9.3% from \text{\text{\$\psi}}108 billion in 2021 to \text{\$\psi}118 billion in 2022, primarily reflecting an increase in the average balance of such financing provided to corporate customers.

Non-interest income attributable to this segment increased 69.4% from \$49 billion in 2021 to \$83 billion in 2022, mainly due to an increase in fees received from our investment banking activities.

Impairment losses due to credit loss and others for this segment increased 700.0% from \( \mathbb{W} \)2 billion in 2021 to \( \mathbb{W} \)16 billion in 2022, primarily as a result of our preemptive measures in 2022 to account for a potential increase in expected credit loss that could result from a deterioration in the overall asset quality caused by the potentially adverse economic conditions in Korea and globally in 2023 and beyond.

General administrative expenses attributable to this segment increased 21.6% from \wodeleftwidtharpoonup 151 billion in 2021 to \wodeleftwidtharpoonup 622, mainly due to an increase in salaries resulting from an increase in the number of our employees due to the expansion of our investment banking business.

### Comparison of 2021 to 2020

Our net income before tax for this segment increased 50.7% from \www.69 billion in 2020 to \www.104 billion in 2021. Net income after tax also increased 27.0% from \www.63 billion in 2020 to \www.80 billion in 2021.

Net interest income for this segment, which consists mainly of interest income from financing provided to corporations, increased 38.5% from \text{\$\text{W}}78\$ billion in 2020 to \text{\$\text{\$\text{W}}108\$ billion in 2021, primarily reflecting an increase in the average balance of such financing provided to corporate customers.

Non-interest income attributable to this segment increased 44.1% from \(\foat{\psi}\)34 billion in 2020 to \(\foat{\psi}\)49 billion in 2021, mainly due to an increase in fees received from our investment banking activities.

Impairment losses due to credit loss and others for this segment decreased 50.0% from \( \foatsup 4 \) billion in 2020 to \( \foatsup 2 \) billion in 2021, primarily as a result of an expected improvement in the overall asset quality of loans in this segment following a recovery from the COVID-19 pandemic.

General administrative expenses attributable to this segment increased 34.2% from \(\mathbb{W}\)38 billion in 2020 to \(\mathbb{W}\)51 billion in 2021, mainly due to an increase in salaries resulting from an increase in the number of our employees due to the expansion of our investment banking business.

#### Others

Other operations include the operations of Woori Financial Group and all of our subsidiaries (other than Woori Bank, Woori Card, Woori Financial Capital and Woori Investment Bank), including Woori Asset Trust, Woori Asset Management, Woori Credit Information, Woori Fund Service, Woori Private Equity Asset Management, Woori Global Asset Management, Woori FIS and Woori Finance Research. The following table shows, for the years indicated, our income statement data for this segment:

	Year ended December 31,						Percentage change		
	2020		2021		2022		2021/2020	2022/2021	
		(in	billions of Won)				(%	6)	
Income statement data									
Net interest income	₩	69	₩	30	₩	74	(56.5)%	146.7%	
Non-interest income	1,072		1,111		1,750		3.6	57.5	
Provision for impairment losses due to credit loss and									
others		(44)		(20)		(38)	(54.5)	90.0	
General administrative expenses	(	(416)		(440)		(494)	5.8	12.3	
Net operating income		681		681	1	,292	0.0	89.7	
Non-operating income		1		3			200.0	(100.0)	
Net income before tax		682		684	1	,292	0.3	88.9	
Tax expense		(30)		(17)		(27)	(43.3)	58.8	
Net income	₩	652	₩	667	₩1	,265	2.3	89.7	

## Comparison of 2022 to 2021

Our net income before tax for this segment increased 88.9% from \$684 billion in 2021 to \$1,292 billion in 2022. Net income after tax increased 89.7% from \$667 billion in 2021 to \$1,265 billion in 2022.

Net interest income for this segment increased 146.7% from \(\psi \)30 billion in 2021 to \(\psi \)74 billion in 2022, primarily due to an increase in interest income resulting from our addition of Woori Financial F&I as a consolidated subsidiary in January 2022 and an increase in interest income at Woori Savings Bank from higher interest rates and increased loan volume in 2022.

Non-interest income attributable to this segment increased 57.5% from \$1,111 billion in 2021 to \$1,750 billion in 2022, primarily as a result of increases in trust fees and management fees.

Impairment losses due to credit loss and others for this segment increased 90.0% from \$20 billion in 2021 to \$38 billion in 2022, primarily as a result of our preemptive measures in 2022 to account for a potential increase in expected credit loss that could result from a deterioration in the overall asset quality caused by the potentially adverse economic conditions in Korea and globally in 2023 and beyond.

General administrative expenses attributable to this segment increased 12.3% from \(\foat\)440 billion in 2021 to \(\foat\)494 billion in 2022, mainly due to increases in salaries resulting from an increase in the number of IT related employees at Woori FIS Co., Ltd. and the establishment of our consolidated subsidiary Woori Financial F&I in January 2022, and increases in IT related depreciation and other costs.

# Comparison of 2021 to 2020

Our net income before tax for this segment increased 0.3% from \text{\$\psi}682\$ billion in 2020 to \text{\$\psi}684\$ billion in 2021. Net income after tax increased 2.3% from \text{\$\psi}652\$ billion in 2020 to \text{\$\psi}667\$ billion in 2021.

Net interest income for this segment decreased 56.5% from \(\foat{\psi}\)60 billion in 2020 to \(\foat{\psi}\)30 billion in 2021, primarily due to the loss of net interest income of Woori Financial Capital as a result of the recognition of capital as a separate segment beginning in 2021.

Non-interest income attributable to this segment increased 3.6% from \(\prec{\pmathbf{W}}\)1,072 billion in 2020 to \(\pmathbf{W}\)1,111 billion in 2021, primarily as a result of increases in trust fees and management fees, which more than offset the impact of the recognition of capital as a separate segment beginning in 2021.

Impairment losses due to credit loss and others for this segment decreased 54.5% from \(\foat\)44 billion in 2020 to \(\foat\)20 billion in 2021, primarily as a result of an expected improvement in the overall asset quality of the loans included in this segment due to recovery from the COVID-19 pandemic, as well as the recognition of capital as a separate segment beginning in 2021.

General administrative expenses attributable to this segment increased 5.8% from \(\foat\)416 billion in 2020 to \(\foat\)440 billion in 2021, mainly due to increases in salaries resulting from an increase in the number of our employees.

# Item 5.B. Liquidity and Capital Resources

# **Financial Condition**

#### Assets

The following table sets forth, as of the dates indicated, the principal components of our assets:

	As of December 31,		Percentage change	
	2021	2022	2022/2021	
	(in billion	s of Won)	(%)	
Cash and cash equivalents	₩ 20,613	₩ 34,219	66.0%	
Financial assets at fair value through profit or loss	13,497	19,861	47.2	
Financial assets at fair value through other comprehensive				
income	39,120	33,085	(15.4)	
Securities at amortized cost	17,086	28,268	65.4	
Loans and other financial assets at amortized cost:	348,886	355,761	2.0	
Due from banks <sup>(2)</sup>	2,867	2,995	4.5	
Loans <sup>(2)</sup>	336,800	343,919	2.1	
Loans in local currency	273,284	282,687	3.4	
Loans in foreign currencies	24,508	26,988	10.1	
Domestic banker's usance	3,403	2,877	(15.5)	
Credit card accounts	9,757	10,370	6.3	
Bills bought in foreign currencies	5,310	3,651	(31.2)	
Bills bought in local currency	265	534	101.5	
Factoring receivables	18	25	38.9	
Advances for customers on guarantees	27	26	(3.7)	
Privately placed bonds	519	486	(6.4)	
Securitized loans	2,875	2,991	4.0	
Call loans	3,481	3,626	4.2	
Bonds purchased under resale agreements	10,333	6,849	(33.7)	
Financial lease receivables	1,174	1,468	25.0	
Installment financial bonds	2,882	2,833	(1.7)	
Others	_	_	$N/M^{(1)}$	
Loan origination costs and fees	858	852	(0.7)	
Discounted present value	(7)	(10)	42.9	
Loss allowance	(1,887)	(2,334)	23.7	
Other financial assets (other receivables) <sup>(2)</sup>	9,219	8,847	(4.0)	
Investments in joint ventures and associates	1,335	1,306	(2.2)	
Investment properties	389	388	(0.3)	
Premises and equipment	3,175	3,143	(1.0)	
Other assets <sup>(3)</sup>	3,083	4,443	44.1	
Total assets	₩447,184	<del>W</del> 480,474	7.4	

<sup>(1)</sup> N/M = not meaningful.

For further information on our assets, see "Item 4.B. Business Overview—Assets and Liabilities."

Our total assets increased 7.4% from \(\pm\)447,184 billion as of December 31, 2021 to \(\pm\)480,474 billion as of December 31, 2022, principally due to a 66% increase in cash and cash equivalents from \(\pm\)20,613 billion as of December 31, 2021 to \(\pm\)34,219 billion as of December 31, 2022 and a 65.4% increase in securities at amortized

<sup>(2)</sup> Net of allowance for credit losses.

<sup>(3)</sup> Includes intangible assets and goodwill, assets held for distribution (sale), net defined benefit assets, current tax assets, deferred tax assets, derivative assets designated for hedging and other assets.

cost from \(\forall 17,086\) billion as of December 31, 2021 to \(\forall 28,268\) billion as of December 31, 2022, which was enhanced by a 2.1% increase in loans from \(\forall 336,800\) billion as of December 31, 2021 to \(\forall 343,919\) billion as of December 31, 2022.

The increase in loans was primarily attributable to a 3.4% increase in loans in local currency from \$\fowald 273,284\$ billion as of December 31, 2021 to \$\fowald 282,687\$ billion as of December 31, 2022, which was enhanced by a 10.1% increase in loans in foreign currencies from \$\fowald 24,508\$ billion as of December 31, 2021 to \$\fowald 26,988\$ billion as of December 31, 2022, a 6.3% increase in credit card accounts from \$\fowald 9,757\$ billion as of December 31, 2021 to \$\fowald 10,370\$ billion as of December 31, 2022, a 4.0% increase in securitized loans from \$\fow 2,875\$ billion as of December 31, 2021 to \$\fowald 2,991\$ billion as of December 31, 2022 and a 4.2% increase in call loans from \$\fow 3,481\$ billion as of December 31, 2021 to \$\fowald 3,626\$ billion as of December 31, 2022.

The decrease in financial assets at fair value through other comprehensive income was primarily attributable to a 15.7% decrease in debt securities from \(\foware 38,127\) billion as of December 31, 2021 to \(\foware 32,146\) billion as of December 31, 2022. Such decrease in debt securities was principally due to a decrease in debt securities from financial institutions.

#### Liabilities and Equity

The following table sets forth, as of the dates indicated, the principal components of our liabilities and our equity:

	As of December 31,		Percentage change	
	2021	2022	2022/2021	
	(in billion	of Won)	(%)	
Liabilities:				
Financial liabilities at fair value through profit or loss	<b>₩</b> 4,873	₩ 8,952	83.7%	
Deposits due to customers	317,900	342,105	7.6	
Borrowings	24,755	28,430	14.8	
Debentures	44,654	44,198	(1.0)	
Provisions	576	546	(5.2)	
Other financial liabilities	24,233	22,812	(5.9)	
Other liabilities <sup>(1)</sup>	1,388	1,804	30.0	
Total liabilities	418,379	448,847	7.3	
Equity:				
Owner's equity:				
Capital stock	3,640	3,640	0.0	
Hybrid securities	2,294	3,112	35.7	
Capital surplus	682	682	0.0	
Other equity	(2,167)	(2,423)	11.8	
Retained earnings <sup>(2)</sup>	21,348	23,750	11.3	
	25,797	28,761	11.5	
Non-controlling interests	3,008	2,866	(4.7)	
Total equity	28,805	31,627	9.8	
Total liabilities and equity	<del>W</del> 447,184	<del>W</del> 480,474	7.4	

<sup>(1)</sup> Includes net defined benefit liability, current tax liabilities, deferred tax liabilities, derivative liabilities designated for hedging and other liabilities.

For further information on our liabilities, see "Item 4.B. Business Overview—Assets and Liabilities."

Our total liabilities increased 7.3% from \text{\psi}418,379 billion as of December 31, 2021 to \text{\psi}448,847 billion as of December 31, 2022, principally as a result of a 7.6% increase in deposits due to customers from

<sup>(2)</sup> Includes regulatory reserve for credit loss of \(\mathbb{W}\)2,568 billion as of December 31, 2021 and \(\mathbb{W}\)2,967 billion as of December 31, 2022.

W317,900 billion as of December 31, 2021 to ₩342,105 billion as of December 31, 2022, which was enhanced by a 14.8% increase in borrowing from ₩24,755 billion as of December 31, 2021 to ₩28,430 billion as of December 31, 2022 and a 30.0% increase in other liabilities from ₩1,388 billion as of December 31, 2021 to ₩1,804 billion as of December 31, 2022. The increase in deposits due to customers was primarily due to a 6.2% increase in time deposits from ₩254,319 billion as of December 31, 2021 to ₩270,093 billion as of December 31, 2022, which was enhanced by a 22.9% increase in deposits in foreign currencies from ₩37,644 billion as of December 31, 2021 to ₩46,264 billion as of December 31, 2022 and a 46.6% increase in certificate of deposits from ₩3,586 billion as of December 31, 2021 to ₩5,256 billion as of December 31, 2022.

Our total equity increased 9.8% from \( \forall 28,805 \) billion as of December 31, 2021 to \( \forall 31,627 \) billion as of December 31, 2022. Such increase mainly reflected an 11.3% increase in retained earnings from \( \forall 21,348 \) billion as of December 31, 2021 to \( \forall 23,750 \) billion as of December 31, 2022 and a 35.7% increase in hybrid securities from \( \forall 2,294 \) billion as of December 31, 2021 to \( \forall 3,112 \) billion as of December 31, 2022. The increase in retained earnings was attributable mainly to the net income we generated in 2022. The increase in hybrid securities was due to the issuances of local currency-denominated hybrid securities in February, July and October 2022.

### Liquidity

Our primary source of funding has historically been and continues to be customer deposits, particularly lower-cost retail deposits. Customer deposits amounted to \(\foathbf{W}\)317,900 billion and \(\foathbf{W}\)342,105 billion as of December 31, 2021 and 2022, which represented approximately 80.9% and 81.2% of our total funding, respectively. We have historically been able to use customer deposits to finance our operations generally, including meeting a portion of our liquidity requirements. Although the majority of deposits are short term, it has been our experience that the majority of our depositors generally roll over their deposits at maturity, thus providing us with a stable source of funding. However, in the event that a substantial number of our depositors do not roll over their deposits or otherwise decide to withdraw their deposited funds, we would need to place increased reliance on alternative sources of funding, some of which may be more expensive than customer deposits, in order to finance our operations. See "Item 3.D. Risk Factors—Other risks relating to our business—Our funding is highly dependent on short-term deposits, which dependence may adversely affect our operations." In particular, we may increase our utilization of alternative funding sources such as short-term borrowings and cash and cash equivalents (including funds from maturing loans), as well as liquidating our positions in trading and investment securities and using the proceeds to fund parts of our operations, as necessary.

We also obtain funding through borrowings and issuances of debentures to meet our liquidity needs. Borrowings represented 7.1% and 7.6% of our total funding as of December 31, 2021 and 2022, respectively. Debentures represented 11.4% and 10.5% of our total funding as of December 31, 2021 and 2022, respectively. For further information on our sources of funding, see "Item 4.B. Business Overview—Assets and Liabilities—Funding."

Our liquidity risks arise from withdrawals of deposits and maturities of our borrowings and debentures, as well as our need to fund our lending, trading and investment activities and to manage our trading positions. Our goal in managing our liquidity is to be able, even under adverse conditions, to meet all of our liability repayments on time and to fund all investment opportunities. For a discussion of how we manage our liquidity risk, see "Item 11. Quantitative and Qualitative Disclosures about Market Risk—Liquidity Risk Management."

The Financial Services Commission requires each Korean financial holding company and each Korean bank to maintain specific Won and foreign currency liquidity ratios. These ratios require us to keep our ratio of liquid assets to liquid liabilities above certain minimum levels. For a description of these requirements, see "Item 4.B. Business Overview—Supervision and Regulation—Principal Regulations Applicable to Financial Holding Companies—Liquidity" and "—Principal Regulations Applicable to Banks—Liquidity." We are currently in compliance with all such requirements. In addition, notwithstanding any global economic and financial disruption resulting from the COVID-19 pandemic, we do not expect to experience issues relating to foreign currency liquidity due to the low likelihood of large withdrawals of foreign currency and our access to existing lines of credit in foreign currency.

We are a financial holding company, and substantially all of our operations are in our subsidiaries. Accordingly, we rely on distributions from our subsidiaries, direct borrowings and issuances of debt and equity securities to fund our liquidity obligations at the holding company level. See "Item 3.D. Risk Factors—Risks relating to our financial holding company structure and strategy."

### Contractual Obligations and Off-Balance Sheet Arrangements

The following table sets forth our contractual obligations as of December 31, 2022:

	Payments due by period				
	Total	Less than 1 year	1-3 years	3-5 years	More than 5 years
		(in bi	illions of Won	)	
Contractual obligations					
Borrowing obligations <sup>(1)</sup>	₩ 29,013	₩ 21,071	₩ 6,530	₩ 927	₩ 485
Debenture obligations <sup>(1)</sup>	46,535	23,615	15,949	3,672	3,299
Deposits <sup>(2)(3)</sup>	349,008	332,486	10,782	4,217	1,523
Lease obligations	354	170	113	38	33
Purchase obligations	131	57	34	27	13
Employee severance plan obligations	3,940	9	10	25	3,896
Total	₩428,981	₩377,408	₩33,418	₩8,906	₩9,249

<sup>(1)</sup> Includes estimated future interest payments, which have been estimated using contractual interest rates and scheduled contractual maturities of the outstanding borrowings and debentures as of December 31, 2022. In order to calculate future interest payments on debts with floating rates, we used contractual interest rates as of December 31, 2022.

We utilize credit-related financial instruments with off-balance sheet risk in our normal course of business. The primary purpose of those instruments is to generate fee income for us, in return for making credit support and funds available to our customers as required. Such instruments consist primarily of guarantees, commercial letters of credit and unused lines of credit. Guarantees include guarantees for loans, debentures, trade financing arrangements and guarantees for other financings. Contingent liabilities for which guaranteed amounts are not finalized appear as off-balance sheet items in the notes to the financial statements.

We also enter into transactions with certain structured entities, including through the purchase of their subordinated debt and the provision of credit facilities to them. For further information, see Notes 1-(5) and 1-(6) of the notes to our consolidated financial statements included elsewhere in this annual report.

<sup>&</sup>lt;sup>(2)</sup> Comprising certificates of deposit, other time deposits and installment deposits.

<sup>(3)</sup> Includes estimated future interest payments, which have been estimated using weighted average interest rates paid in 2022 for each deposit product category and their scheduled contractual maturities.

The following table sets forth our off-balance sheet guarantees and commitments as of the dates indicated:

	As of December 31,	
	2021	2022
	(in billion	s of Won)
Confirmed guarantees	₩ 7,988	₩ 7,487
Guarantees for loans	39	40
Acceptances	623	502
Guarantees in acceptances of imported goods	111	98
Other confirmed guarantees	7,215	6,848
Unconfirmed guarantees	4,208	4,309
Local letter of credit	243	150
Letters of credit	3,187	3,014
Other unconfirmed guarantees	778	1,144
Commercial paper purchase commitments and others	792	126
Loan commitments and others:		
Loans	114,414	118,172
Others	5,653	7,108

We analyze our off-balance sheet legally binding credit-related commitments for possible losses associated with such commitments. We review the ability of the counterparties of the underlying credit-related commitments to perform their obligations under the commitments and, if we determine that a loss is probable and estimable, we establish allowances for possible losses in a manner similar to allowances that we would establish with respect to a loan granted under the terms of the applicable commitment. These allowances are reflected as provisions in our statement of financial position. As of December 31, 2022, we had established provisions for possible losses of \text{\mathbf{W}}183 billion with respect to our guarantees and loan commitments.

#### Capital Adequacy

We are subject to the capital adequacy requirements of the Financial Services Commission. The requirements applicable commencing in December 2013 pursuant to amended Financial Services Commission regulations promulgated in July 2013 were formulated based on Basel III, which was first introduced by the Basel Committee on Banking Supervision, Bank for International Settlements in December 2009. Under the amended Financial Services Commission regulations, all financial holding companies and banks in Korea are required to maintain certain minimum ratios of Tier I common equity capital, total Tier I capital and total Tier I and Tier II capital to risk-weighted assets. See "Item 4.B. Business Overview—Supervision and Regulation—Principal Regulations Applicable to Financial Holding Companies Capital Adequacy" and "—Principal Regulations Applicable to Banks—Capital Adequacy."

If a financial holding company or a bank fails to maintain its capital adequacy ratios, the Korean regulatory authorities may impose penalties on such financial holding company or bank ranging from a warning to suspension or revocation of its license. See "Item 3.D. Risk Factors—Other risks relating to our business—We may be required to raise additional capital if our capital adequacy ratios deteriorate or the applicable capital requirements change in the future, but we may not be able to do so on favorable terms or at all."

The following table sets forth a summary of our capital and capital adequacy ratios as of December 31, 2021 and 2022 based on IFRS and applicable regulatory reporting standards:

As of December 31,			
2021		2022	
(in billions of Won, except percentages)			
₩ 3,6	40 ¥	₩ 3,640	
6	82	682	
21,3	48	23,750	
	16	19	
(3,7	37)	(4,334)	)
2,2	94	3,112	
1,2	99	1,097	
₩ 25,5	42 <del>*</del>	<b>₩</b> 27,966	
₩ 4	25	₩ 528	
2,9	74	2,910	
₩ 3,3	99 4	₩ 3,438	
₩ 28,9	41 ¥	₩ 31,404	
₩171,2	00 <b>4</b>	₩182,028	
6,3	88	6,759	
14,9	15	16,520	
₩192,5	03	₩205,307	
11.	40%	11.579	%
13.	27	13.62	
1.	76	1.68	
15.	03	15.30	
	2021 (in bi excep)  ₩ 3,6 6 21,3 (3,7 2,2 1,2 ₹ 25,5  ₩ 4 2,9 ₹ 3,3 ₹ 28,9 ₹ 171,2 6,3 14,9 ₹ 192,5 11. 13. 1.	2021 (in billions of except percent descriptions of except descri	2021         2022           (in billions of Won, except percentages)         W 3,640           682         682           21,348         23,750           16         19           (3,737)         (4,334)           2,294         3,112           1,299         1,097           ₩ 25,542         ₩ 27,966           ₩ 3,399         ₩ 3,438           ₩ 28,941         ₩ 31,404           ₩171,200         ₩182,028           6,388         6,759           14,915         16,520           ₩192,503         ₩205,307           11.40%         11.57           13.27         13.62           1.76         1.68

<sup>(1)</sup> Allowance for credit losses in respect of credits classified as normal or precautionary is used to calculate Tier II capital only to the extent such allowances represent up to 1.25% of risk-weighted assets.

# **Recent Accounting Pronouncements**

See Note 2-(1)-2) of the notes to our consolidated financial statements for a description of other recent accounting pronouncements under IFRS as issued by the IASB that have been issued but are not yet effective.

# Item 5.C. Research and Development, Patents and Licenses, etc.

**Not Applicable** 

# Item 5.D. Trend Information

These matters are discussed under Item 5.A and Item 5.B above where relevant.

# Item 5.E. Critical Accounting Estimates

Our financial statements are prepared in accordance with IFRS as issued by IASB. See Notes 2 and 3 of the notes to our financial statements for a discussion of our critical accounting estimates.

#### Item 6. DIRECTORS, SENIOR MANAGEMENT AND EMPLOYEES

# Item 6.A. Directors and Senior Management

#### **Board of Directors**

Our board of directors has the ultimate responsibility for managing our affairs. The board currently comprises one standing director, one non-standing director and six outside directors. Standing directors are directors who are our full-time executive officers, while non-standing directors and outside directors are directors who are not full-time executive officers. Outside directors represent a cross-section of respected and experienced members of the academic, financial, corporate and other fields in Korea and elsewhere, and must also satisfy certain requirements under Korean law and our articles of incorporation to evidence their independence from us.

Our articles of incorporation provide that the board can have no more than 15 directors. There must be at least three outside directors and they must comprise a majority of the directors. Each director may be elected for a term of office not exceeding three years and may be re-elected, provided that each outside director may be elected for a term of office not exceeding two years and may be re-elected on an annual basis but may not serve in such office for more than a total of six years. In addition, with respect to all directors, such term of office will be extended until the close of the annual general meeting of shareholders convened in respect of the last fiscal year of the director's term of office. These terms are subject to the Korean Commercial Code, the Financial Holding Company Act and related regulations.

Our board of directors meets regularly on a quarterly basis to discuss and resolve various corporate matters. The board may also convene for additional extraordinary meetings at the request of the president or chairman of the board. A director (other than the president or chairman of the board) may request the president or chairman of the board to convene an extraordinary meeting. In the event that the president or chairman of the board rejects such request without justifiable reason, another director may convene the extraordinary meeting.

The names and positions of our directors are set forth below. The business address of all of the directors is our registered office at 51, Sogong-ro, Jung-gu, Seoul, Korea.

# **Standing Directors**

Our standing director is as follows:

Name	Date of Birth	Position	Director Since	Ends <sup>(1)</sup>
Jong-Yong Yim	August 3, 1959	President and Chief Executive Officer	March 24, 2023	2026

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Jong-Yong Yim is our president and chief executive officer. He has experience overseeing national policies in the public sector, including in the economic and financial sectors. He previously served at the Ministry of Economy and Finance (formerly the Ministry of Finance and Economy) and the Financial Services Commission. He also served as the chairman of NongHyup Financial Group Inc. Mr. Yim holds a Bachelor of Arts in Economics from Yonsei University and a Master of Arts in Economics from University of Oregon.

Such director is not involved in any significant business activities outside us and our subsidiaries.

#### Non-Standing Director

Our non-standing director is as follows:

Name	Date of Birth	Position	Director Since	Year Term Ends
Won-Duk Lee	January 15, 1962	Non-Standing Director	March 25, 2022	2023(1)

<sup>(1)</sup> The term will end on December 31, 2023.

<sup>(1)</sup> The date on which the term will end will be the date of the general shareholders' meeting in the relevant year.

Won-Duk Lee was elected as a non-standing director in March 2022. He became the president and chief executive officer of Woori Bank in March 2022, upon which he resigned his position as our standing director and was newly elected as a non-standing director. He holds a Bachelor of Science in Agriculture and a Master of Arts in Economics from Seoul National University.

#### **Outside Directors**

We currently have six outside directors. The terms of three of our former outside directors, Sung-Tae Ro, Sang-Yong Park and Dong-Woo Chang, expired in 2023. At our annual general meeting of shareholders in March 2023, we newly elected Su-Young Yun and Sung-Bae Ji as our outside directors Our current outside directors are as follows:

Name	Date of Birth	Position	Director Since	Year Term Ends(1)
In-Sub Yoon	January 1956	Outside Director	January 27, 2022	2024
Chan-Hyoung Chung	February 1956	Outside Director	March 24, 2023 <sup>(2)</sup>	2024
Su-Young Yun	December 1961	Outside Director	March 24, 2023	2025
Yo-Hwan Shin	December 1962	Outside Director	January 27, 2022	2024
Sung-Bae Ji	July 1967	Outside Director	March 24, 2023	2025
Soo-Young Song	October 1980	Outside Director	March 25, 2022	2024

<sup>(1)</sup> The date on which the term will end will be the date of the general shareholders' meeting in the relevant year.

*In-Sub Yoon* was elected as an outside director in January 2022 and was previously the chairman of the board of directors of Fubon Hyundai Life Insurance and the chief executive officer of Korea Ratings. He holds a Bachelor of Science in Applied Statistics and a Master of Science in Accounting from Yonsei University.

Chan-Hyoung Chung was elected as an outside director in December 2018 and is currently an outside director of Woori Bank. He holds a Bachelor of Arts in Business Administration and a Master of Business Administration from Korea University.

Su-Young Yun was elected as an outside director in March 2023 and was previously the chief executive officer of Kiwoom Asset Management Co., Ltd. and the vice president of Kiwoom Securities Corp. He holds a Bachelor of Arts in Economics and a Master of Arts in Economics from Seoul National University.

*Yo-Hwan Shin* was elected as an outside director in January 2022 and was previously the CEO of Shinyoung Securities Co., Ltd. He holds a Bachelor of Arts in Business Administration from Korea University and a Master of Science in Finance from the University of Illinois at Urbana-Champaign.

Sung-Bae Ji was elected as an outside director in March 2023 and was previously the chairman of Korea Venture Capital Association. He is currently the chief executive officer of IMM Investment, Corp. He holds a Bachelor of Arts in Business Administration and a Master of Arts in Business Administration from Seoul National University.

Soo-Young Song was elected as an outside director in March 2022. She is currently a partner at Shin & Kim LLC. She holds a Bachelor of Arts in Business Administration, a Bachelor of Arts in French Language and Literature, a Bachelor of Legislative Law and an Executive Master of Business Administration, each from Seoul National University, and completed the 39th Judicial Training Institute Program.

If any director wishes to enter into a transaction with us in his or her personal capacity, he or she must obtain the prior approval of our board of directors (which shall be granted by two-thirds or more of the total number of the directors, and the relevant transaction shall be fair in terms of its particulars and procedures). The director with an interest in the transaction may not vote at the meeting during which the board approves the transaction.

<sup>&</sup>lt;sup>(2)</sup> Prior to January 11, 2019, served as a director of Woori Bank.

#### **Executive Officers**

In addition to the standing director who is also our executive officer, we currently have the following 7 executive officers.

Name	Date of Birth	Position
Sung-Wook Lee	November 13, 1965	Deputy President
Gwang-Ik Jang	January 25, 1965	Deputy President
Il-Jin Ouk	May 3, 1974	Senior Managing Director
Kon Ho Kim	May 10, 1966	Managing Director
Jang Keun Park	June 29, 1967	Managing Director
Jeong Soo Lee	January 5, 1967	Managing Director
Jae Hwa Jeon	June 28, 1968	Deputy Managing Director and
		Compliance Officer

Sung-Wook Lee serves as a deputy president of our finance planning unit. Previously, he served as a senior managing director of our finance planning unit, a managing director of our finance planning division and a senior general manager of our finance and management department. He holds a Bachelor of Arts in Business Administration from Yonsei University.

Gwang-Ik Jang serves as a deputy president of our brand unit. Previously, he served as a director of the planning office of Maeil Broadcasting Network, a director of the press bureau of Maeil Broadcasting Network, and the head of the social department of Maeil Broadcasting Network. He holds a Bachelor of Arts in Economics from Yonsei University, a Master of Arts in Economics from Yonsei University, a Master of Business Administration from University of Michigan and a doctoral degree in Business Administration from Dongguk University.

*Il-Jin Ouk* serves as a senior managing director of our digital/IT unit. Previously, he served as a managing director of our digital unit and a deputy president of the financial group of Kearney Strategy Consulting, a leader of the strategy unit of E&Y and a principal of BCG. He holds a Bachelor of Arts in Business Administration from Seoul National University and a Master of Business Administration from the University of Chicago.

Kon Ho Kim serves as a managing director of our future business unit. Previously, he served as a senior general manager of our synergy management department and a general manager of Woori Bank's Yonsei Banking Center. He holds a Bachelor of Arts in Business Administration from Yonsei University and a Master of Arts in Financial Engineering from KAIST.

Jang Keun Park serves as a managing director of our risk management unit. Previously, he served as a senior managing director of the marketing management group and a senior general manager of the head office business department of Woori Bank. He holds a Bachelor of Arts in Statistics from Korea University and a Master of Business Administration from KDI (Michigan State University).

Jeong Soo Lee serves as a managing director of our strategy planning unit. Previously, he served as a senior general manager of our investor relations department, a general manager of our investor relations department and a general manager of the investor relations department of Woori Bank. He holds a Bachelor of Arts in German Language and Literature from Sogang University and a Master of Arts in International Finance from the George Washington University.

Jae Hwa Jeon serves as a deputy managing director and the compliance officer. Previously, he served as a general manager of the Yeouido Corporate Banking Headquarters, a general manager of the Munjeong-jungang Banking Center of Woori Bank, and a general manager of our Compliance Department. He holds a Bachelor of Law from Korea University and a Master of Arts in Financial Engineering from KAIST.

None of the executive officers is involved in any significant business activities outside us and our subsidiaries.

### Item 6.B. Compensation

The aggregate remuneration and benefits-in-kind we paid in 2022 to our directors and our other executive officers, including the compliance officer and managing directors, was \(\foathbb{W}6,620\) million, which includes \(\foathbb{W}262\) million in provisions for allowances for severance and retirement benefits for such directors and officers. We do not have service contracts with any of these directors or officers that provide for benefits if employment with us is terminated.

The compensation of our director who received total annual compensation exceeding \(\foatsup 500\) million in 2022 was as follows:

Name	Position	(in millions of Won)
Tae-Seung Son	President and Chief Executive Officer	₩1,202 <sup>(1)</sup>

<sup>(1)</sup> Such compensation does not include a maximum 61,190 shares of our common stock that may be granted in connection with long-term performance from 2022 to 2025. The final number of shares granted will be determined at the time of payment based on the market price of our common stock and other factors.

#### Item 6.C. Board Practices

See "Item 6.A. Directors and Senior Management—Board of Directors" and "Item 6.B. Compensation" for information concerning the terms of office and contractual employment arrangements with our directors and executive officers.

#### **Committees of the Board of Directors**

We currently have six committees that serve under the board:

- the Audit Committee;
- the Board Risk Management Committee;
- the Compensation Committee;
- the Committee for Recommending Executive Officer Candidates;
- the Committee for Recommending Subsidiary Representative Director Candidates; and
- the Board ESG Management Committee.

The board appoints each member of these committees except for members of the Audit Committee, who are elected by our shareholders at the annual general meeting.

Effective March 24, 2023, the functions of the former Committee for Internal Control Management have been assumed by the Audit Committee.

#### Audit Committee

This committee consists of four outside directors: Chan-Hyoung Chung, Su-Young Yun, Yo-Hwan Shin, Sung-Bae Ji. The chairman is Su-Young Yun. It reviews all audit and compliance-related matters and makes recommendations to our board. The Audit Committee, whose members must meet certain qualifications as experts under the committee charter, is also responsible for the following:

- formulating, executing, evaluating and managing internal audit plans (including the financial and operational audits);
- approving the appointment and dismissal of the head of the audit team;
- approving the appointment of external auditors and evaluating the activities carried out by external auditors;
- formulating appropriate measures to correct problems identified from internal audits;

- overseeing the reporting systems within our financial holding company structure in light of relevant disclosure rules and requirements to ensure compliance with applicable regulations; and
- examining internal procedures or making decisions on material matters that are related to audits as determined by the regulatory authorities, our board or other committees.

This committee also makes recommendations on regulatory issues to the Financial Supervisory Service, if and when deemed necessary. In addition, in connection with general meetings of shareholders, the committee examines the agenda for, and financial statements and other reports to be submitted by the board of directors, to each general meeting of shareholders. The internal and external auditors report directly to the Audit Committee chairman. Our external auditor is invited to attend meetings of this committee when needed or when matters pertaining to the audit are discussed.

This committee holds regular meetings every quarter or as necessary.

#### **Board Risk Management Committee**

This committee consists of three outside directors: In-Sub Yoon, Su-Young Yun and Soo-Young Song. The chairman is In-Sub Yoon. It comprehensively detects, measures, oversees and controls the relevant risks in the management of our subsidiaries and makes determinations on all significant issues relating to our risk management system. The major roles of the Board Risk Management Committee include:

- determining and amending risk management policies, guidelines and limits in conformity with the strategy established by the board of directors;
- determining the appropriate level of risks that we should be willing to undertake, including in
  connection with key business activities such as acquisitions, investments or entering into new business
  areas, prior to a decision by the board of directors on such matters;
- allocating risk capital and approving the risk limit requests of our subsidiaries;
- reviewing our risk profile, including the level of risks we are exposed to and the status of our risk management operations; and
- monitoring compliance with our risk policies.

This committee regularly receives reports from the Group Risk Management Council as well as the Group Risk Management Department, which in turn receives reports from subsidiary level risk management committees and groups. See "Item 11. Quantitative and Qualitative Disclosures about Market Risk." This committee holds regular meetings every quarter.

### Compensation Committee

This committee consists of four outside directors: In-Sub Yoon, Chan-Hyoung Chung, Su-Young Yun and Yo-Hwan Shin. The chairman is Yo-Hwan Shin. It is responsible for all matters relating to the following:

- evaluating management's performance in developing our business;
- setting goals and targets with respect to executive performance; and
- fixing executive compensation, including incentives and bonuses.

This committee holds regular meetings every quarter.

# Committee for Recommending Executive Officer Candidates

This committee consists of all six of our outside directors: In-Sub Yoon, Chan-Hyoung Chung, Su-Young Yun, Yo-Hwan Shin, Sung-Bae Ji and Soo-Young Song. The chairman is Sung-Bae Ji. The committee oversees the selection of candidates for the president and chief executive officer, outside directors and Audit Committee members, among others. This committee holds meetings when such persons need to be appointed.

### Committee for Recommending Subsidiary Representative Director Candidates

This committee consists of one standing director, Jong-Yong Yim, and all six of our outside directors: In-Sub Yoon, Chan-Hyoung Chung, Su-Young Yun, Yo-Hwan Shin, Sung-Bae Ji and Soo-Young Song. The chairman is Jong-Yong Yim. The committee oversees the selection of candidates for the representative directors of our subsidiaries. This committee holds meetings when such persons need to be appointed.

#### **Board ESG Management Committee**

This committee consists of all eight of our directors: Jong-Yong Yim, Won-Duk Lee, In-Sub Yoon, Chan-Hyoung Chung, Su-Young Yun, Yo-Hwan Shin, Sung-Bae Ji, and Soo-Young Song. The chairman is Soo-Young Song. The committee oversees the direction of ESG management strategies and the establishment of such policies. This committee holds regular meetings every six months.

### Item 6.D. Employees

As of December 31, 2022, we had a total of 111 full-time employees at our financial holding company, excluding 12 employees that hold concurrent positions at our subsidiaries. The following table sets forth information regarding our employees, on a non-consolidated basis and including employees holding concurrent positions at our subsidiaries, as of the dates indicated:

		As of Dec	ember 31,
		2021	2022
Woori Financial Group	Full-time employees	136	123
	Contractual employees	46	54
Woori Bank	Full-time employees	13,298	12,951
	Contractual employees	907	907

At the holding company level, our employees do not currently have a labor union and are not members of an outside labor union. However, Woori Bank has a labor union, and approximately 66.9% of its employees as of December 31, 2022 were members of the Korea Financial Industry Union. Neither we nor Woori Bank has experienced any significant labor disputes in recent years, although we have made certain concessions to Woori Bank's labor union and our labor association. See "Item 3.D. Risk Factors—Other risks relating to our business—Labor union unrest may disrupt our operations and hinder our ability to continue to reorganize our operations." We have placed a high priority on our relationship with our employees and on maintaining an atmosphere of trust and cooperation between our labor and management.

At the holding company level, our employees' compensation comprises an individual base salary and bonus, which are determined based on the work productivity and performance of each employee and the relevant business unit. We believe that the salaries we pay to our employees and management are similar to those of other large financial companies in Korea. We evaluate employees twice a year (usually in March and September), based on our business performance and evaluations provided by co-workers and superiors. With respect to our compensation program, we do not provide housing leases or loans to our employees.

At Woori Bank, employee compensation is generally based on a combination of the agreed-upon base salary and bonuses. In addition, Woori Bank operates a "salary peak" system, under which an employee's salary reaches a certain peak and then is gradually reduced as the employee reaches retirement age. Woori Bank's bonus system is generally based on individual performance and business unit performance. We believe that Woori Bank's compensation package is similar to that of institutions in the same industry. Woori Bank also provides a wide range of benefits to its employees, including medical insurance, employment insurance, workers compensation, accident insurance, financial aid for children's tuition and retirement pension plans.

We have an employee stock ownership association, which purchases our shares at the request of our employees using their own funds and financial support by us depending on the amount of purchase by employee. The association is entitled to certain pre-emptive rights. See "Item 10B. Memorandum and Articles of Association—Pre-emptive Rights and Issuances of Additional Shares."

In accordance with the National Pension Act, we contribute an amount equal to 4.5% of employee wages, and each employee contributes 4.5% of his or her wages, into each employee's personal pension account. In addition, in accordance with the Guarantee of Worker's Retirement Benefits Act, we have adopted a retirement pension plan for our employees. Contributions under the retirement pension plan are deposited annually into a financial institution, and an employee may elect to receive a monthly pension or a lump-sum amount upon retirement. Our retirement pension plans are provided in the form of a defined benefit plan and a defined contribution plan. The defined benefit plan guarantees a certain payout at retirement, according to a fixed formula based on the employee's average wages and the number of years for which the employee has been a plan member. The defined contribution plan, in which the employer's contribution is determined in advance based on one-twelfth of an employee's total annual pay, is managed directly by the employees. Under Korean law, we may not terminate the employment of full-time employees except under certain limited circumstances.

### Item 6.E. Share Ownership

#### Common Stock

As of April 17, 2023, the persons who are currently our directors or executive officers, in the aggregate, held 77,954 shares of our common stock. None of these persons individually held more than 1% of our outstanding common stock as of such date. The following table presents information regarding our directors and executive officers who beneficially owned our shares as of April 17, 2023.

Name of Executive Officer or Director	Number of Shares of Common Stock
Chan-Hyoung Chung	10,532
Won-Duk Lee	26,500
Sung-Wook Lee	15,000
Il-Jin Ouk	3,000
Kon-Ho Kim	9,160
Jeong-Soo Lee	5,890
Jae-Hwa Jeon	7,872
Total	77,954

#### **Share-based Payments**

Under the Korean Commercial Code and our articles of incorporation, we may, by special resolution of our shareholders, grant to our officers and employees (including the officers and employees of our subsidiaries) who have contributed or are expected to contribute to our establishment, management, technological innovation, etc. options to purchase up to an aggregate of 15.0% of the total number of our then issued shares. We may grant such options to purchase up to 1.0% of the total number of our then issued shares by a resolution of our board of directors.

We have granted cash-settled stock options to certain executive officers. See Note 36-(4) of the notes to our consolidated financial statements. As of the date of this annual report, none of such cash-settled stock options have vested.

#### ITEM 6.F. Disclosure of A Registrant's Action to Recover Erroneously Awarded Compensation.

Not Applicable

### Item 7. MAJOR SHAREHOLDERS AND RELATED PARTY TRANSACTIONS

# Item 7.A. Major Shareholders

The following table presents information regarding the beneficial ownership of our common stock at April 17, 2023 (unless otherwise indicated) by each person or entity known to us to own beneficially more than 5% of the outstanding shares of our common stock.

Except as otherwise indicated, each shareholder identified by name has:

- sole voting and investment power with respect to its shares; and
- record and beneficial ownership with respect to its shares.

Beneficial Owner	Number of Shares of Common Stock		Percentage of Total Shares on a Fully Diluted Basis
Employee Stock Ownership Association <sup>(1)</sup>	69,301,356	9.52	9.52
National Pension Service <sup>(2)</sup>	52,088,451	7.15	7.15
Nobis1, Inc. <sup>(3)</sup>	40,560,000	5.57	5.57
BlackRock Fund Advisors(4)	36,888,004	5.07	5.07

<sup>(1)</sup> As of December 31, 2022.

In March 2020, pursuant to a commitment made by Woori Bank in connection with its disposal of 42,103,377 shares of our common stock in 2019, in which 28,890,707 of such shares were sold to Fubon Life Insurance Co., Ltd. in September 2019 for \(\forall 358\) billion, one person nominated by Fubon Life Insurance Co., Ltd. was elected to serve as our outside director at our annual general meeting of shareholders. In March 2021, the five directors elected pursuant to the stock transfer plan were reappointed as our outside directors at our annual generating meeting of shareholders. In December 2021, through KDIC's sale of an aggregate of 9.3% of our common stock to five winning bidders, Eugene Private Equity Co., Ltd. became our new major shareholder and thereby nominated one person as an outside director who was subsequently elected at an extraordinary general meeting of shareholders in January 2022.

In 2017, pursuant to a series of transactions related to call options previously granted in connection with the KDIC's sale of Woori Bank's common stock in December 2014, the KDIC sold an aggregate of 19,852,364 shares of Woori Bank's common stock (representing 2.9% of its outstanding common stock). As a result of such transactions, the KDIC's ownership interest in Woori Bank was reduced to 18.4%. In connection with our establishment in January 2019 as a new financial holding company pursuant to a "comprehensive stock transfer" under Korean law, the KDIC received 124,604,797 shares of our outstanding common stock in exchange for the common stock of Woori Bank it owned. In June 2019, the Financial Services Commission approved the KDIC's plan to sell all such common stock in multiple transactions by 2022. In April 2021, pursuant to such plan, the KDIC sold 14,445,354 shares of our common stock (representing 2.0% of our outstanding common stock) in a block trade. In December 2021, the KDIC sold an aggregate 9.3% of our outstanding common stock in stakes ranging from 1.0% to 4.0% to four companies and 1.0% to our employee stock ownership association, and in February 2022, the KDIC sold an aggregate of 15,860,000 shares of our common stock (representing 2.2% of our outstanding common stock) in a block trade. In May 2022, the KDIC further sold an aggregate of 17,000,000 shares of our common stock (representing 2.3% of our outstanding common stock) in a block trade. As a result of such transactions, the KDIC currently owns 1.3% of our outstanding common stock.

As of April 17, 2023, our chief executive officer did not own any shares of our common stock. Our executive officers (excluding our chief executive officer) collectively owned 40,922 shares of our common stock. Our outside directors and non-standing director collectively owned 37,032 shares of our common stock.

Other than as set forth above, no other person or entity known by us to be acting in concert, directly or indirectly, jointly or separately, owned 5.0% or more of the outstanding shares of our common stock or exercised control or could exercise control over us as of April 17, 2023. None of our major shareholders has different voting rights from our other shareholders.

As of the close of our shareholders' register on December 31, 2022, approximately 59.9% of our issued shares were held in Korea by approximately 116,526 shareholders.

<sup>(2)</sup> As of December 31, 2022.

<sup>(3)</sup> Nobis1, Inc., which is an affiliate of IMM Private Equity, acquired 27,040,000 shares of Woori Bank's common stock, or 4.00% of its outstanding common stock, in December 2016. In accordance with the Bank Act, Nobis1, Inc. received approval from the Financial Services Commission for the acquisition of an additional 13,520,000 shares of Woori Bank's common stock, or 2.00% of its outstanding common stock, in January 2017, pursuant to an agreement not to exercise the voting rights with respect to such shares. Such shares were exchanged for shares of our common stock in January 2019 in the stock transfer.

<sup>(4)</sup> As of January 30, 2023.

### Item 7.B. Related Party Transactions

We regularly engage in transactions with entities affiliated with the government, which currently owns 1.3% of our shares through the KDIC. Generally, these transactions include the extension of loans, the purchase of debt securities and other ordinary course activities relating to our banking business. For a description of such transactions, see "Item 4.B. Business Overview—Assets and Liabilities."

As of December 31, 2022, we also had an aggregate amount of \(\formalfont{W}\)3,620 million in outstanding assets, including loans, from transactions with our key management personnel, which includes our executive officers and directors, as well as the executive officers and directors of our major subsidiaries and the chief executive officers of our other subsidiaries.

All of these loans were made in the ordinary course of business, on substantially the same terms, including interest rates and collateral, as those prevailing at the time for comparable transactions with other persons and did not involve more than the normal risk of collectability or present other unfavorable features.

None of our directors or officers has or had any interest in any transactions effected by us that are or were unusual in their nature or conditions or significant to our business which were effected during the current or immediately preceding year or were effected during an earlier year and remain in any respect outstanding or unperformed.

# Item 7.C. Interest of Experts and Counsel

### **Not Applicable**

#### Item 8. FINANCIAL INFORMATION

#### Item 8.A. Consolidated Statements and Other Financial Information

See "Item 18. Financial Statements" and pages F-1 through F-190.

You should read the following data together with the more detailed information contained in "Item 5. Operating and Financial Review and Prospects" and our consolidated financial statements included elsewhere in this annual report. Historical results do not necessarily predict future results.

### **Profitability Ratios and Other Data**

	Year ended December 31,			
	2020	2021	2022	
	(in billions of	Won except p	ercentages)	
Net income as a percentage of:				
Total average assets <sup>(1)</sup>	0.40%	0.66%	0.72%	
Total average equity <sup>(1)</sup>	5.79	9.81	11.12	
Dividend payout ratio <sup>(2)</sup>	19.89	25.73	25.82	
Net interest spread <sup>(3)</sup>	1.60	1.71	1.90	
Net interest margin <sup>(4)</sup>	1.65	1.74	1.96	
Efficiency ratio <sup>(5)</sup>	58.01	49.70	46.01	
Equity–to-average asset ratio <sup>(6)</sup>	6.90	6.71	6.44	
Cost-to-average assets ratio <sup>(7)</sup>	1.04	0.99	0.96	

<sup>(1)</sup> Total average assets (including average interest-earning assets) and total average equity are based on daily balances for Woori Bank and on quarterly balances for all of our other subsidiaries and our structured companies.

<sup>(2)</sup> Represents the ratio of total dividends declared on common stock as a percentage of net income attributable to owners.

<sup>(3)</sup> Represents the difference between the yield on average interest-earning assets and cost of average interest-bearing liabilities.

<sup>(4)</sup> Represents the ratio of net interest income to average interest-earning assets.

<sup>(5)</sup> Represents the ratio of general and administrative expenses to the sum of net interest income, net fees and commissions income, dividend income, net gain on financial instruments at fair value through profit or loss, net gain on financial assets at fair value through other comprehensive income, net gain arising on financial assets at amortized cost and other net operating expenses.

<sup>(6)</sup> Represents the ratio of total average equity to total average assets.

<sup>(7)</sup> Represents the ratio of general and administrative expenses to total average assets.

# **Asset Quality Data**

	As of Dece	ember 31,
	2021	2022
	(in billions of percen	
Total loans <sup>(1)</sup>	₩337,835	₩345,411
Total non-performing loans <sup>(2)</sup>	927	1,016
Other impaired loans not included in non-performing loans	231	667
Total non-performing loans and other impaired loans	1,158	1,683
Total allowance for credit losses	1,887	2,334
Non-performing loans as a percentage of total loans	0.27%	0.29%
Non-performing loans as a percentage of total assets	0.21%	0.21%
Total non-performing loans and other impaired loans as a percentage of total loans	0.34%	0.49%
Allowance for credit losses as a percentage of total loans	0.56%	0.68%

Not including due from banks and other financial assets (or other receivables), and prior to deducting allowance for credit losses and present value discount or reflecting deferred origination costs.

#### **Selected Financial Information**

# Average Balances and Related Interest

The following tables show our average balances and interest rates for the past three years:

	Year ended December 31,								
		2020			2021		2022		
	Average Balance <sup>(1)</sup>		Average Yield	Average Balance <sup>(1)</sup>	Interest Income <sup>(2)</sup>	Average Yield	Average Balance <sup>(1)</sup>	Interest Income <sup>(2)</sup>	Average Yield
			(in	billions of V	Von, except	t percenta	ges)		
Assets									
Interest-earning assets:									
Due from banks	₩ 18,966	₩ 54	0.28%	<b>₩</b> 21,442	₩ 47	0.22%	₩ 24,505	₩ 244	1.00%
Financial assets at fair value through profit or									
loss	4,859	49	1.01	7,271	46	0.63	7,901	107	1.35
Financial assets at fair value through other									
comprehensive income	27,868	437	1.57	30,724	381	1.24	35,848	633	1.77
Securities at amortized cost	18,945	383	2.02	16,503	325	1.97	21,450	515	2.40
Loans <sup>(3)</sup> :									
Commercial and industrial	119,251	3,219	2.70	135,776	3,496	2.57	155,581	5,677	3.65
Trade financing	10,253	153	1.49	9,866	95	0.96	10,993	226	2.06
Lease financing <sup>(4)</sup>	1,448	48	3.31	3,287	119	3.62	4,414	178	4.03
Other commercial	7,102	172	2.42	7,786	175	2.25	8,654	275	3.18
Securities purchased with agreements to									
resell	2,666	30	1.13	3,244	33	1.02	3,220	83	2.58
General purpose household <sup>(5)</sup>	74,123	2,705	3.65	79,923	2,809	3.51	79,453	3,719	4.68
Mortgage	57,123	1,592	2.79	65,653	1,653	2.52	70,465	2,223	3.15
Credit cards <sup>(2)</sup>	8,215	651	7.92	9,203	685	7.44	10,035	728	7.25
Total loans	280,181	8,570	3.06	314,738	9,065	2.88	342,815	13,109	3.82
Other	12,415	31	0.25	10,690	31	0.29	11,854	47	0.40
Total average interest earning assets	363,234	9,524	2.62	401,368	9,895	2.47	444,373	14,655	3.30
Total average non-interest earning assets	16,257		_	18,174		_	26,059		_
Total average assets	₩379,491	₩9,524	2.51%	₩419,542	₩9,895	2.36%	₩470,432	₩14,655	3.12%

<sup>(2)</sup> Defined as those loans that are past due by 90 days or more or classified as substandard or below based on the Financial Services Commission's asset classification criteria. See "Item 4.B. Business Overview—Assets and Liabilities—Asset Quality of Loans—Loan Classifications."

	Year ended December 31,								
	2020				2021		2022		
	Average Balance <sup>(1)</sup>	Interest Expense	Average Cost	Average Balance <sup>(1)</sup>	Interest Expense	Average Cost	Average Balance <sup>(1)</sup>	Interest Expense	Average Cost
			(in	billions of W	on, except	percentag	ges)		
Liabilities									
Interest-bearing liabilities:									
Deposits due to customers:									
Demand deposits		₩ 49		₩ 14,634		0.72%	₩ 12,875	₩ 88	0.68%
Time and savings deposits		2,056	0.91	243,708	1,495	0.61	258,594	3,210	1.24
Certificates of deposit	1,677	22	1.31	2,858	27	0.94	5,263	115	2.19
Other deposits	34,861	360	1.03	38,374	279	0.73	47,978	708	1.48
Total deposits	272,211	2,487	0.91	299,574	1,907	0.64	324,710	4,121	1.27
Borrowings:									
Borrowings	18,451	217	1.18	19,845	157	0.79	26,793	514	1.92
Securities sold with									
agreements to resell	750	5	0.67	819	5	0.61	1,111	21	1.89
Commercial paper	2,167	48	2.22	2,552	58	2.27	2,100	63	3.00
Total borrowings	21,368	270	1.26	23,216	220	0.95	30,004	598	1.99
Debentures	32,315	723	2.24	40,935	727	1.78	46,414	1,036	2.23
Other	21,110	46	0.22	20,925	55	0.26	25,354	203	0.80
Total average interest-bearing liabilities	347,004	3,526	1.02	384,650	2,909	0.76	426,482	5,958	1.40
Total average non-interest-bearing									
liabilities	6,300		_	6,727		_	13,653		_
Total average liabilities	353,304	3,526	1.00	391,377	2,909	0.74	440,135	5,958	1.35
Total average equity	26,187		_	28,165		_	30,298		_
Total average liabilities and equity	₩379,491	₩ 3,526	0.93%	₩419,542	₩2,909	0.69%	₩470,433	₩5,958	1.27%

<sup>(1)</sup> Average balances are based on daily balances for Woori Bank and on quarterly balances for all of our other subsidiaries and our structured companies.

<sup>(2)</sup> Interest income from credit cards is derived from interest on credit card loans and credit card installment purchases.

<sup>(3)</sup> Not including other financial assets, and prior to deducting allowance for credit losses and present value discount or reflecting deferred origination costs.

<sup>(4)</sup> Includes automobile lease financing to consumer borrowers.

<sup>(5)</sup> Includes home equity loans.

### Analysis of Changes in Net Interest Income—Volume and Rate Analysis

The following table provides an analysis of changes in interest income, interest expense and net interest income based on changes in volume and changes in rate for 2021 compared to 2020 and 2022 compared to 2021. Information is provided with respect to: (1) effects attributable to changes in volume (changes in volume multiplied by prior rate) and (2) effects attributable to changes in rate (changes in rate multiplied by prior volume). Changes attributable to the combined impact of changes in rate and volume have been allocated proportionately to the changes due to volume changes and changes due to rate changes.

	2021 vs. 2020 Increase/(decrease) due to changes in					2022 vs. 2021 Increase/(decrease) due to changes in			
	Volume		F	Rate	Total	Volume	Rate	Total	
			(in billions			of Won)			
Interest-earning assets									
Due from banks	₩	7	₩	(14)	<b>₩</b> (7)	₩ 7	₩ 190	₩ 197	
Financial assets at fair value through profit or loss		24		(27)	(3)	4	57	61	
Financial assets at fair value through other		24		(21)	(3)		31	01	
comprehensive income		45		(101)	(56)	64	188	252	
Securities at amortized cost		(49)		(9)	(58)	97	93	190	
Loans(1):		( )		(-)	()				
Commercial and industrial		446		(169)	277	509	1,672	2,181	
Trade financing		(6)		(52)	(58)	11	120	131	
Lease financing <sup>(2)</sup>		61		10	71	41	18	59	
Other commercial		17		(14)	3	20	80	100	
Securities purchased with agreements to									
resell		7		(4)	3		50	50	
General purpose household <sup>(3)</sup>		212		(108)	104	(16)	926	910	
Mortgage		238		(177)	61	121	449	570	
Credit cards		78		(44)	34	62	(19)	43	
Other		(4)		4		3	13	16	
Total interest income	₩1.	,076	₩	(705)	₩ 371	₩923	₩3,837	₩4,760	
Interest-bearing liabilities									
Deposits due to customers:									
Demand deposits	₩	22	₩	35	₩ 57	₩(13)	<b>₩</b> (5)	, ,	
Time and savings deposits		165		(726)	(561)	91	1,624	1,715	
Certificates of deposit		15		(10)	5	23	65	88	
Other deposits		36		(117)	(81)	70	359	429	
Borrowings:		1.0		(7.6)	((0)		202	2.55	
Borrowings		16		(76)	(60)	55	302	357	
Securities sold with agreements to resell		9		_ 1	10	(10)	14 15	16 5	
Commercial paper  Debentures		193		(189)	10 4	(10) 98	211	309	
Other		193		9	9	12	136	148	
Total interest expense	₩	456	<b>X</b>	1,073)	<del></del>	₩328	<del>₩</del> 2,721	<del>₩</del> 3.049	
-	_								
Net interest income	₩	620	₩	368	₩ 988 ====	₩595 ====	₩1,116 ==================================	₩1,711 =====	

<sup>(1)</sup> Not including other financial assets and prior to deducting allowance for credit losses and present value discount or reflecting deferred origination costs.

<sup>(2)</sup> Includes automobile lease financing to consumer borrowers.

<sup>(3)</sup> Includes home equity loans.

# **Legal Proceedings and Regulatory Actions**

As a financial institution with diverse operations, we are subject to legal proceedings and regulatory actions in the ordinary course of our business.

#### Woori Bank

In June 2022, Woori Bank discovered that large amounts of overseas wire transfers had been made under unusual circumstances in 2020 and 2021, and reported such activities to the Financial Supervisory Service. After similar activities were also reported by another bank, the Financial Supervisory Service launched an investigation in August 2022 into wire transfers under similar circumstances across all major banks in Korea, including Woori Bank, which were believed to be made in connection with cryptocurrency arbitrage transactions, in relation to the Foreign Exchange Transactions Act of Korea and the anti-money laundering provisions under the Act on Reporting and Use of Certain Financial Transaction Information of Korea. In an interim report released in September 2022, the Financial Supervisory Service reported that an aggregate of over US\$7.2 billion of suspicious overseas wire transfers were made through 12 banks, of which US\$1.6 billion had been wired through Woori Bank. An employee of Woori Bank has also been arrested under allegations of aiding such wire transfers and alerting the transferors about the investigations. In April 2023, the Financial Supervisory Service announced that it has concluded its investigation and that it is in the process of deliberating on disciplinary measures pursuant to applicable laws and procedures. The prosecutors' offices in Korea are also currently investigating these wire transfers and the parties involved pursuant to applicable foreign exchange and anti-money laundering laws and regulations. While Woori Bank intends to fully cooperate with such investigations, it is not possible to predict the final outcome of such investigations at this time. There can be no assurance that such investigations will not result in an unfavorable outcome, including the imposition of monetary damages, fines and other penalties against Woori Bank, which, if significant, may adversely affect its results of operations, cash flows and reputation.

In April 2022, Woori Bank became aware of a series of embezzlements committed between 2012 and 2020 by one of its employees. As of December 31, 2022, Woori Bank has determined that the aggregate amount of such embezzlements was approximately \(\forall 70.8\) billion and has recovered \(\forall 3.4\) billion of this amount. Woori Bank has reported such incident to the relevant government authorities and has cooperated with their investigations. The Financial Supervisory Service released an interim investigation report in July 2022, stating that the embezzlements occurred primarily as a result of the employee's actions. In September 2022, the Seoul Central district court sentenced the embezzler to 13 years in prison, which decision is currently on appeal. The Financial Supervisory Service has concluded its investigation, and in January 2023, its disciplinary committee approved various penalties to be issued to certain Woori Bank employees in connection with the embezzlement. There can be no assurance that such decisions by the Financial Supervisory Service, as well as those by other government authorities, will not adversely affect our results of operations, cash flows and reputation.

In August 2019, the Financial Supervisory Service commenced an investigation into past sales by Woori Bank and other banks in Korea of derivative-linked fund and securities products tied to yields on treasury bonds of Germany, the United Kingdom and the United States, which may have resulted in significant losses to certain customers who purchased such products. In December 2019, the dispute settlement committee of the Financial Supervisory Service recommended (i) the reimbursement of 40 to 80% of the related losses to certain customers by the banks involved in the sale of such products, including Woori Bank, and (ii) individual settlements with other customers who were not subject to the 40 to 80% reimbursement recommendation. Accordingly, as of December 31, 2022, Woori Bank reimbursed 1,254 out of the 1,258 customers that agreed to accept the recommendation, which compose a vast majority of the customers with such claims. In March 2020, the Financial Services Commission imposed on Woori Bank a fine of \(\frac{\textbf{W}}{19.7}\) billion and a six-month ban on sales of new private equity fund products and confirmed the Financial Supervisory Service's decision to impose a warning of reprimand on our chief executive officer. Immediately following such decision, our chief executive officer, in his individual capacity, filed a request to nullify the warning of reprimand as well as an injunction request to suspend the decision against him in the Seoul Administrative Court. On March 20, 2020, the injunction

request was granted and was affirmed by the Seoul High Court on appeal on August 25, 2020. Such decision was confirmed on September 2, 2020. The warning of reprimand was revoked on August 27, 2021 by the Seoul Administrative Court, which decision was affirmed by the Seoul High Court on July 22, 2022 and by the Supreme Court on December 15, 2022. In addition, Woori Bank filed a formal objection to the Financial Services Commission's imposition of the fine on May 22, 2020 in the Seoul Central District Court, where the case is currently pending. There can be no assurance that such decisions by the Financial Services Commission and the Financial Supervisory Service (as well as any similar investigations by other government authorities, and private claims by customers, to which we may become subject) will not adversely affect our results of operations, cash flows and reputation.

In February 2020, the Seoul Southern District Prosecutors' Office commenced an investigation into the management of certain fund products by Lime Asset Management Co. which may have resulted in significant losses to certain customers who purchased such products from banks and securities companies in Korea, including Woori Bank. Such products of Lime Asset Management Co. included trade finance funds with investments in certain funds managed by International Investment Group, which had its license revoked by the Securities and Exchange Commission in November 2018 for concealing losses and selling fraudulent loan assets, triggering suspension of the redemption of such trade finance funds, as well as other fund products. In July 2020, the dispute settlement committee of the Financial Supervisory Service declared that the sale of the trade finance funds was voidable for fraud and misrepresentation by Lime Asset Management Co., and recommended that all sellers of such funds, including Woori Bank, refund the customers in full. Accordingly, Woori Bank refunded an aggregate amount of \(\foldapsilon\) 64.7 billion to 288 customers that had purchased the trade finance funds from Woori Bank. In January 2022, Woori Bank filed a lawsuit in the Seoul Southern District Court against Lime Asset Management Co. and Shinhan Investment Corp., which had entered into a total return swap contract with Lime Asset Management Co. in connection with such trade finance funds, to recover the full amount that it had refunded, the outcome of which remains uncertain. In addition, the dispute settlement committee recommended that the banks involved in the sales of fund products managed by Lime Asset Management Co. other than the trade finance funds reimburse 40% to 80% of the losses to its customers. Accordingly, as of December 31, 2022, Woori Bank reimbursed an aggregate amount of \(\psi\)144.9 billion to 1,075 out of the 1,301 customers with losses relating to such fund products, including the amounts that had previously been paid out prior to such recommendation, and is continuing to negotiate a settlement with such customers. In July 2022, the Financial Services Commission imposed on Woori Bank a fine of \(\formalfontarrow 7.2\) billion and a three-month ban on sales of new private equity fund products in connection with the sale of such fund products of Lime Asset Management Co. by Woori Bank. Also in July 2022, Woori Bank satisfied the fine by making a payment of \(\forall 5.8\) billion pursuant to the Act on the Regulation of Violations of Public Order, which allows an administrative agency such as the Financial Services Commission to reduce a fine when the concerned party voluntarily pays the fine by within the prescribed deadline for submitting an opinion regarding the imposition of the fine. In addition, in November 2022, the Financial Supervisory Service issued a warning of reprimand to our former chief executive officer, which was not appealed, and also imposed various penalties ranging from temporary reductions in salary to suspensions of duty on Woori Bank's employees. Woori Bank is fully cooperating with all relevant investigations by government authorities, including investigations by the Seoul Southern District Prosecutors' Office, but it is not possible to predict the final outcome of such investigations at this time. There can be no assurance that such investigations (as well as any private claims by customers, to which we may become subject) will not result in an unfavorable outcome, including the imposition of monetary damages, fines and other penalties against us, which, if significant, may adversely affect our results of operations, cash flows and reputation.

In April 2020, the Korea Financial Intelligence Unit imposed a penalty of \(\foathbb{W}\)16.5 billion on Woori Bank for its failure to file with the Korea Financial Intelligence Unit certain currency transaction reports, which resulted from errors and malfunctions relating to Woori Bank's computer systems that failed to detect the relevant transactions. In May 2020, Woori Bank filed an administrative action appealing such monetary penalty. A summary judgement ruling in June 2022 reduced the penalty to \(\foathbb{W}\)2.5 billion, and the amount was confirmed at trial in December 2022. Both Woori Bank and the Korea Financial Intelligence Unit have appealed the ruling, and the case is currently pending.

Other than the legal proceedings discussed above, we and our subsidiaries are not a party to any legal or administrative proceedings, and no proceedings are known by us to be contemplated by governmental authorities or third parties, which, if adversely determined, may have a material adverse effect on our consolidated financial condition or results of operations.

#### **Dividends**

We declare our dividend annually at the annual general meeting of shareholders. We generally hold this meeting within three months after the end of each fiscal year. Pursuant to our amended articles of incorporation that went into effect on March 24, 2023, we must pay the annual dividend to the shareholders of record as of the record date, which is set by a resolution of the Board of Directors upon providing at least two (2) weeks prior notice of such date to the public. We can distribute the annual dividend either in cash or in stock. Cash dividends may be paid out of retained earnings that have not been appropriated to statutory reserves. Specifically, we may pay dividends up to the value of the net assets stated on the balance sheet after deducting the sum of capital, the capital reserve and the earned surplus reserve accumulated until the pertinent period for the settlement of our accounts, the amount to be accumulated for the pertinent period for the settlement of our accounts and unrealized profits.

In addition, pursuant to our amended articles of incorporation that went into effect on March 24, 2023, we may declare and distribute quarterly dividends to shareholders registered in our registry as of the end of March, June and September pursuant to a board resolution. Our quarterly dividends shall be authorized by a resolution of the Board of Directors executed within 45 days of the end of March, June and September, as applicable. However, pursuant to amendments to the Financial Investment Services and Capital Markets Act, which are expected to be proposed at some point in 2023, we expect to make corresponding amendments to our articles of incorporation, which may include removing the requirement that quarterly dividends be issued to shareholders registered as of the end of March, June and September.

The table below sets forth the dividend per share of common stock and the total amount of dividends declared by us in respect of the years ended December 31, 2020 and 2021 and 2022. Except as otherwise noted, the dividends set forth below with respect to each year were declared, paid and recorded in the following year.

Fiscal year	Dividends Per Share of Common Stock	Total Amount Of Cash Dividends Paid			
	(in Won)	(in millions of Won)			
2020	360	260,016			
2021(1)	900	654,384			
$2022^{(2)}$	1,130	822,706			

<sup>(1)</sup> Includes interim dividends of Won 108,340 million (Won 150 per share of common stock) declared and paid in 2021.

Future dividends will depend upon our revenues, cash flow, financial condition and other factors. As an owner of ADSs, you will be entitled to receive dividends payable in respect of the shares of common stock represented by such ADSs.

For a description of the tax consequences of dividends paid to our shareholders, see "Item 10.E. Taxation—United States Taxation—Dividends" and "—Korean Taxation—Taxation of Dividends on Common Shares or ADSs."

#### Item 8.B. Significant Changes

Not Applicable

#### Item 9. THE OFFER AND LISTING

#### Item 9.A. Offering and Listing Details

### **Principal Markets**

The principal trading market for our common stock is the KRX KOSPI Market. Our common stock has been listed on the KRX KOSPI Market under the identifying code 316140 since February 13, 2019, and the ADSs

<sup>(2)</sup> Includes interim dividends of Won 109,209 million (Won 150 per share of common stock) declared and paid in 2022.

have been listed on the New York Stock Exchange under the symbol "WF" since January 11, 2019. The ADSs are identified by the CUSIP number 981064108.

Woori Finance Holdings' common stock was listed on the KRX KOSPI Market on June 24, 2002, and was suspended from trading from October 30, 2014 and de-listed on November 18, 2014 following the merger of Woori Finance Holdings with Woori Bank. Woori Finance Holdings' ADSs were listed on the New York Stock Exchange since September 29, 2003 and were traded under the CUSIP number 981063100. Following the merger, Woori Bank's common stock was newly listed on the KRX KOSPI Market on November 19, 2014, and Woori Bank's ADSs succeeded to the listing of Woori Finance Holdings' ADSs on the New York Stock Exchange on November 1, 2014. Woori Bank's ADSs were traded under the CUSIP number 98105T104.

In connection with our establishment in January 2019 as a new financial company pursuant to a "comprehensive stock transfer" under Korean law, Woori Bank's common stock was suspended from trading from January 9, 2019 and was de-listed from the KRX KOSPI Market on February 13, 2019. Following the stock transfer, our common stock was newly listed on the KRX KOSPI Market on February 13, 2019, and our ADSs succeeded to the listing of Woori Bank's ADSs on the New York Stock Exchange on January 11, 2019.

As of the date of this annual report, we have 728,058,225 shares of common stock outstanding.

#### **Restrictions Applicable to ADSs**

An investor does not need Korean governmental approval to sell or purchase our ADSs in the secondary market outside Korea or to withdraw shares of our common stock from our ADS deposit facility or deliver those withdrawn shares in Korea. However, a foreign investor who intends to acquire shares must obtain an investment registration card from the Financial Supervisory Service as described below. Either the foreign investor or its standing proxy in Korea must immediately report its acquisition of the shares to the governor of the Financial Supervisory Service.

Persons who acquire shares of our common stock by withdrawing those shares from our ADS deposit facility may exercise their preemptive rights for new shares, participate in free distributions and receive dividends on shares without any further Korean governmental approval.

#### **Restrictions Applicable to Shares**

As a result of amendments to the Foreign Exchange Transaction Laws and Financial Services Commission regulations (which we refer to collectively as the "Investment Rules"), including the Regulations on Financial Investment Business, adopted since January 1992 in connection with the opening and operation of Korea's stock market, foreign investors may generally invest, with limited exceptions and subject to procedural requirements, in all shares of Korean companies, whether listed on the KRX KOSPI Market or registered on the KRX KOSDAQ Market. Foreign investors may trade shares listed on the KRX KOSPI Market or registered on the KRX KOSDAQ Market only through the KRX KOSPI Market or the KRX KOSDAQ Market, except in limited circumstances. These circumstances include:

- odd-lot share trading;
- acquiring shares (which we refer to as "Converted Shares") by exercising warrants, conversion rights or
  exchange rights under bonds with warrants, convertible bonds or exchangeable bonds or withdrawal
  rights under depositary receipts issued outside of Korea by a Korean company;
- acquiring shares through inheritance, donation, bequest or exercise of shareholders' rights, including pre-emptive rights or rights to participate in free distributions and receive dividends;
- subject to certain exceptions, over-the-counter transactions between foreign investors of a class of shares
  for which the limit on aggregate acquisition by foreign investors, as explained below, has been reached
  or exceeded; and
- sale and purchase of shares at fair value between foreigners who are part of an investor group comprised
  of foreign companies investing under the control of a common investment manager pursuant to
  applicable laws or contract.

For over-the-counter transactions between foreign investors outside the KRX KOSPI Market or the KRX KOSDAQ Market involving a class of shares for which the limit on aggregate acquisition by foreign investors has been reached or exceeded, a financial investment company with a brokerage license in Korea must act as an intermediary. Odd-lot trading of shares outside the KRX KOSPI Market or the KRX KOSDAQ Market must involve a financial investment company with a dealing license in Korea as the other party. Foreign investors may not engage in margin transactions by borrowing shares from financial investment companies with a dealing and/ or brokerage license with respect to shares that are subject to a foreign ownership limit.

The Investment Rules require a foreign investor who wishes to invest in shares on the KRX KOSPI Market or the KRX KOSDAQ Market (including Converted Shares and shares being issued for initial listing on the KRX KOSPI Market or registration on the KRX KOSDAQ Market) to register with the Financial Supervisory Service before making an investment. This registration requirement does not apply to foreign investors who acquire Converted Shares with the intention of selling the Converted Shares within three months from the acquisition date. The Financial Supervisory Service will issue an investment registration card to each registering foreign investor. This card must be presented each time the foreign investor opens a brokerage account with a financial investment company with a brokerage license. Foreign investors eligible to obtain an investment registration card include:

- foreign nationals who have not been residing in Korea for a consecutive period of six months or more;
- foreign governments;
- foreign municipal authorities;
- · foreign public institutions;
- international financial institutions or similar international organizations;
- · corporations incorporated under foreign laws; and
- any person in any additional category designated under the Enforcement Decree of the Financial Investment Services and Capital Markets Act.

All Korean offices of a foreign corporation (as a group) are treated as a separate foreign investor from the offices of the corporation outside Korea for these purposes. However, a foreign corporation or depositary issuing depositary receipts may obtain one or more investment registration cards in its name in certain circumstances identified in the relevant regulations.

When a foreign investor purchases shares through the KRX KOSPI Market or the KRX KOSDAQ Market, it need not make a separate report because the investment registration card system is designed to control and oversee foreign investment through a computer system. If, however, a foreign investor acquires or sells shares outside the KRX KOSPI Market or the KRX KOSDAQ Market, that investor or its standing proxy must report that transaction to the governor of the Financial Supervisory Service at that time. In addition, if a foreign investor acquires or sells its shares in connection with a tender offer, odd-lot trading of shares or trades of a class of shares for which the aggregate foreign ownership limit has been reached or exceeded, that investor or its standing proxy must ensure that the financial investment company engaged to facilitate the transaction reports the transaction to the governor of the Financial Supervisory Service. Also, sale and purchase of shares at fair value between foreigners who are part of an investor group comprised of foreign companies investing under the common control of a common investment manager pursuant to applicable laws or contract are required to be reported to the governor of the Financial Supervisory Service. A foreign investor may appoint a standing proxy to exercise shareholders' rights or perform any matters related to the foregoing activities if that investor does not perform these activities itself. A foreign investor may be exempted from complying with the standing proxy rules with the approval of the governor of the Financial Supervisory Service in cases deemed unavoidable by reason of conflict between laws of Korea and the home country of the foreign investor.

The shares of a listed Korean company owned by a foreign investor must be electronically registered in accordance with the Act on Electronic Registration of Stocks, Bonds, Etc. through an eligible custodian in Korea.

The same entities eligible to act as a standing proxy are eligible to act as a custodian of shares for a non-resident or foreign investor. A foreign investor may be exempted from complying with the above requirement if it (i) acquires shares publicly offered or sold outside Korea for the purpose of listing on an overseas stock exchange or (ii) acquires or disposes of shares through an overseas stock exchange if such shares are simultaneously listed on the Korea Exchange and such overseas stock exchange.

Under the Investment Rules, with certain limitations, foreign investors may acquire shares of a Korean company without being subject to any foreign investment limit. Under one of these limitations, foreign investors may acquire no more than 40% of the outstanding share capital of designated public corporations. In addition, designated public corporations may set a limit on the acquisition of shares by a single person in their articles of incorporation. If a foreign investor acquires 10% or more of the outstanding shares with voting rights of a Korean company and the investment amount is at least \\ \Psi 100\) million, that investment constitutes a "foreign direct investment" under the Foreign Investment Promotion Act of Korea. Generally, a foreign direct investment must be reported to the Ministry of Trade, Industry and Energy of Korea. The acquisition of a Korean company's shares by a foreign investor may be subject to certain foreign or other shareholding restrictions in the event that the restrictions are prescribed in a specific law that regulates the business of the Korean company. For a description of the restrictions applicable to Korean banks, see "—Principal Regulations Applicable to Banks."

Under the Foreign Exchange Transaction Laws, a foreign investor who intends to acquire shares must designate a foreign exchange bank at which he must open a foreign currency account and a Won account exclusively for stock investments. Approval is not required for remittance into Korea and deposit of foreign currency funds in the foreign currency account. Foreign currency funds may be transferred from the foreign currency account at the time required to place a deposit for, or settle the purchase price of, a stock purchase transaction to a Won account opened at a financial investment company with a dealing and/or brokerage license. Funds in the foreign currency account may be remitted abroad without any Korean governmental approval.

Dividends on shares of Korean companies are paid in Won. Korean governmental approval is not required for foreign investors to receive dividends on, or the Won proceeds from the sale of, any shares to be paid, received and retained in Korea. Dividends paid on, and the Won proceeds of the sale of, any shares held by a non-resident of Korea must be deposited either in a Won account with the investor's financial investment company with a dealing and/or brokerage license or in its own Won account. Funds in a foreign investor's Won account may be transferred to its foreign currency account or withdrawn for local living expenses up to certain limits. These funds may also be used to make future investments in shares or to pay the subscription price of new shares obtained through the exercise of pre-emptive rights.

Financial investment companies with a dealing or brokerage license may open foreign currency accounts with foreign exchange banks exclusively to accommodate foreign investors' stock investments in Korea. Through these accounts, financial investment companies with a dealing or brokerage license may enter into limited foreign exchange transactions, such as converting foreign currency funds and Won funds, either as a counterparty to or on behalf of foreign investors, without the investors having to open their own accounts with foreign exchange banks.

Item 9.B. Plan of Distribution

**Not Applicable** 

Item 9.C. Markets

See "Item 9.A. Offering and Listing Details."

Item 9.D. Selling Shareholders

**Not Applicable** 

Item 9.E. Dilution

**Not Applicable** 

Item 9.F. Expenses of the Issuer

**Not Applicable** 

Item 10. ADDITIONAL INFORMATION

Item 10.A. Share Capital

**Not Applicable** 

Item 10.B. Memorandum and Articles of Association

#### **Description of Capital Stock**

We have set forth below information relating to our capital stock, including brief summaries of some of the provisions of our articles of incorporation, the Korean Commercial Code, Financial Investment Services and Capital Markets Act, and other related laws of Korea. These summaries do not purport to be complete and are subject to our articles of incorporation, and the applicable provisions of the Financial Investment Services and Capital Markets Act, the Korean Commercial Code and those related laws.

Our authorized share capital is 4,000,000,000 shares. Our articles of incorporation authorize us to issue:

- shares of common stock, par value ₩5,000 per share;
- "class shares," par value \\ \psi\_5,000 \text{ per share.}

Subject to applicable laws and regulations, our articles of incorporation authorize us to issue a number of non-voting "class shares" equal to as much as one-half of all of the issued and outstanding shares.

As of the date of this annual report, 728,060,549 shares of common stock were issued and 728,058,225 shares of common stock were outstanding. Pursuant to our articles of incorporation, which became effective upon our establishment on January 11, 2019 and was subsequently amended on March 24, 2023, we are authorized to issue various types of "class shares," which include shares of voting and non-voting preferred stock, convertible stock, redeemable preferred stock and hybrid securities comprising one or more elements of the foregoing types of shares. There are no class shares currently outstanding. All of the issued and outstanding shares are fully paid and non-assessable and are in electronically registered form. As of the date of this annual report, our authorized but unissued share capital was 3,271,939,451 shares. We may issue the unissued shares without further shareholder approval, but these issuances are subject to a board resolution as provided in the articles of incorporation. See "—Pre-emptive Rights and Issuances of Additional Shares" and "—Dividends and Other Distributions—Distribution of Free Shares." For a discussion of the history of our share capital, see Note 28 of the notes to our consolidated financial statements and "Item 4.A. History and Development of the Company—History—Establishment of Woori Finance Holdings," "—Merger of Woori Bank and Woori Finance Holdings" and "—Establishment of Woori Financial Group."

Our articles of incorporation allow our shareholders, by special resolution adopted by the affirmative votes of at least two-thirds of the voting rights of the shareholders present at a general meeting of shareholders and at least one-third of the total number of issued and outstanding shares, to grant to our officers, directors and employees stock options exercisable for up to 15% of the total number of our issued and outstanding shares. Our board of directors may also grant stock options exercisable for up to 1% of our issued and outstanding shares to our officers and employees other than directors. However, any grant by our board of directors must be approved by our shareholders at their next general meeting convened immediately after the grant date. As of the date of this annual report, our officers, directors and employees do not hold any options to purchase shares of common stock. See "Item 6.E. Share Ownership."

Our articles of incorporation reflect the adoption of the electronic securities system pursuant to the Act on Electronic Registration of Stocks, Bonds, Etc. Accordingly, in lieu of issuing share certificates, we electronically register the rights to be indicated on our share certificates on the electronic registry of the electronic registration agency.

#### **Organization**

We are a financial holding company established under the Financial Holding Company Act. We are registered with the commercial registry office of Seoul District Court.

#### **Interests of Directors**

Our articles of incorporation provide that any director who has a material interest in the subject matter of a resolution to be taken by the board of directors cannot vote on such resolution. Our articles of incorporation also provide that the remuneration of our directors is to be determined by the resolution of the general meeting of shareholders.

Our articles of incorporation do not contain any special provisions with respect to the borrowing powers exercisable by directors, their retirement age or a requirement to hold any shares of our capital stock.

See "Item 6.C. Board Practices" for more information on our directors.

#### **Limitation on Liability of Directors**

Our articles of incorporation provide that we may, upon the resolution of the general meeting of shareholders, limit the liability of our directors (in their capacity as such) to an amount not less than six times (or three times in case of outside directors) the aggregate amount of the remuneration we paid to such directors during the most recent one-year period, provided that such limitation shall not apply with regard to any liability arising from such directors' gross negligence, willful misconduct or violation of their duties regarding self-dealing or corporate opportunity.

#### **Dividends and Other Distributions**

*Dividends*. We distribute dividends to shareholders in proportion to the number of shares of the relevant class of capital stock they own. Subject to the requirements of the Korean Commercial Code and other applicable laws and regulations, we expect to pay full annual dividends on newly issued stock for the year in which it is issued. Specifically, we may pay dividends up to the value of the net assets stated on the statement of financial position after deducting the sum of capital, the capital reserve and the earned surplus reserve accumulated until the pertinent period for the settlement of our accounts, the amount to be accumulated for the pertinent period for the settlement of our accounts and unrealized profits.

We declare our dividend annually at the annual general meeting of shareholders. We generally hold this meeting within three months after the end of each fiscal year. We can distribute the annual dividend in (i) cash, (ii) shares, provided that such shares must be distributed at par value and, if the market price of the shares is less than their par value, dividends in shares may not exceed one-half of the total annual dividend (including dividends in shares) or (iii) other forms of consideration. Pursuant to our amended articles of incorporation that went into effect on March 24, 2023, we may set a record date for determining the shareholders entitled to receive dividends by a resolution of the Board of Directors and provided that we give at least two (2) weeks prior notice of such record date to the public.

In addition, we may declare and distribute quarterly dividends to shareholders registered in our registry as of the end of March, June and September pursuant to a board resolution, provided that such resolution shall be made within 45 days from the end of March, June and September. However, pursuant to amendments to the Financial Investment Services and Capital Markets Act, which are expected to proposed at some point in 2023, we expect to make corresponding amendments to our articles of incorporation, which may include removing the requirement that quarterly dividends be issued to shareholders registered as of the end of March, June and September.

Under the Korean Commercial Code and our articles of incorporation, we do not have an obligation to pay any annual or quarterly dividend unclaimed for five years from the payment date.

The Financial Holding Company Act and related regulations require that each time a Korean financial holding company pays an annual dividend, it must set aside in its legal reserve to stated capital an amount equal

to at least one-tenth of its net income after tax until the amount set aside reaches at least the aggregate amount of its stated capital. Unless it sets aside this amount, a Korean financial holding company may not pay an annual dividend. We intend to set aside allowances for loan losses and reserves for severance pay in addition to this legal reserve.

For information regarding taxation of dividends, see "Item 10.E. Taxation—United States Taxation—Dividends" and "—Korean Taxation—Taxation of Dividends on Common Shares or ADSs."

Distribution of Free Shares. The Korean Commercial Code permits us to pay dividends in the form of shares out of retained or current earnings. It also permits us to distribute to our shareholders, in the form of free shares, an amount transferred from the capital surplus or legal reserve by a resolution of the board of directors. We would be required to distribute those free shares pro rata to all shareholders.

### Pre-emptive Rights and Issuances of Additional Shares

We may issue authorized but unissued shares as our board of directors may determine, unless otherwise provided in the Korean Commercial Code. We must, however, offer any new shares on uniform terms to all shareholders who have preemptive rights and are listed on our shareholders' register as of the applicable record date. Those shareholders are entitled to subscribe for any newly issued shares in proportion to their existing shareholdings. Our articles of incorporation provide, however, that we may issue new shares to persons other than existing shareholders if those shares are:

- publicly offered pursuant to Article 165-6 of the Financial Investment Services and Capital Markets Act (where the number of shares so offered may not exceed 50% of our total number of issued shares);
- issued to directors or employees as a result of the exercise of stock options we granted to them pursuant to Article 542-3 of the Korean Commercial Code (where the number of shares so offered may not exceed 15% of our total number of issued shares);
- issued to the members of our employee stock ownership association pursuant to Article 165-7 of the Financial Investment Services and Capital Markets Act; or
- issued to specified foreign investors, foreign or domestic financial institutions, institutional investors or private equity funds for managerial purposes, such as obtaining new technology or improving our financial condition (where the number of shares so offered may not exceed 50% of our total number of issued shares).

We must give public notice of pre-emptive rights for new shares and their transferability not less than two weeks before the record date (excluding the period during which the shareholders' register is closed). We will notify the shareholders who are entitled to subscribe for newly issued shares of the deadline for subscription at least two weeks prior to the deadline. If a shareholder fails to subscribe on or before the deadline, its pre-emptive rights will lapse. Our board of directors may determine how to distribute shares in respect of which preemptive rights have not been exercised or where fractions of shares occur.

Under the Financial Investment Services and Capital Markets Act, each member of our employee stock ownership association, whether or not they are shareholders, has a preemptive right, subject to certain exceptions, to subscribe for up to 20% of any shares we publicly offer. This right is exercisable only so long as the total number of shares so acquired and held by the member does not exceed 20% of the total number of shares that have been issued or are newly issued. As of December 31, 2022, our employees owned 9.52% of our common stock through the employee stock ownership association.

In addition, our articles of incorporation permit us to issue convertible bonds or bonds with warrants, each up to an aggregate principal amount of  $\mathbb{W}2$  trillion, to persons other than existing shareholders. Under the Korean Commercial Code, we are permitted to distribute convertible bonds or bonds with warrants to persons other than existing shareholders only when we deem that this distribution is necessary for managerial purposes, such as obtaining new technology or improving our financial condition. In addition, pursuant to our articles of incorporation and the Act on Electronic Registration of Stocks, Bonds, Etc., in lieu of issuing certificates for bonds, share-related bonds (e.g., convertible bonds and bonds with warrants) and contingent capital securities, we

electronically register rights to be indicated on such certificates on the electronic registry of the electronic registration agency. As of the date of this annual report, we have no convertible bonds or bonds with warrants outstanding.

# **Voting Rights**

Each outstanding share of our common stock is entitled to one vote per share. However, voting rights with respect to shares of common stock that we hold or any of our subsidiaries holds may not be exercised. Unless stated otherwise in a company's articles of incorporation, the Korean Commercial Code permits holders of an aggregate of 1% or more of the issued and outstanding shares with voting rights to request cumulative voting when electing two or more directors. Our articles of incorporation do not prohibit cumulative voting.

The Korean Commercial Code and our articles of incorporation provide that an ordinary resolution may be adopted if approval is obtained from the holders of at least a majority of those shares of common stock present or represented at a meeting and such majority also represents at least one-fourth of the total of our issued and outstanding voting shares. Holders of non-voting shares (other than enfranchised non-voting shares) will not be entitled to vote on any resolution or to receive notice of any general meeting of shareholders, unless the agenda of the meeting includes consideration of a resolution on which such holders are entitled to vote. The Korean Commercial Code provides that a company's articles of incorporation may prescribe conditions for the enfranchisement of non-voting shares. For example, if our annual general shareholders' meeting resolves not to pay to holders of non-voting shares with preferred dividend the annual dividend as determined by the board of directors at the time of issuance of such shares, the holders of non-voting shares with preferred dividend will be entitled to exercise voting rights from the general shareholders' meeting following the meeting adopting such resolution to the end of a meeting to declare to pay such dividend with respect to the non-voting shares with preferred dividend. Holders of such enfranchised non-voting shares with preferred dividend will have the same rights as holders of common stock to request, receive notice of, attend and vote at a general meeting of shareholders.

The Korean Commercial Code provides that to amend the articles of incorporation, which is also required for any change to the authorized share capital of a company, and in certain other instances, including removal of a director of a company, dissolution, merger or consolidation of a company, transfer of the whole or a significant part of the business of a company, acquisition of all of the business of any other company, acquisition of a part of the business of any other company having a material effect on the business of the company or issuance of new shares at a price lower than their par value, a special resolution must be adopted by the approval of the holders of at least two-thirds of those shares present or represented at a meeting and such special majority must represent at least one-third of the total issued and outstanding shares with voting rights of the company.

In addition, in the case of amendments to the articles of incorporation or any merger or consolidation of a company or in certain other cases, where the rights or interest of the holders of class shares are adversely affected, a resolution must be adopted by a separate meeting of holders of class shares. Such a resolution may be adopted if the approval is obtained from shareholders of at least two-thirds of the class shares present or represented at such meeting and such shares also represent at least one-third of the total issued and outstanding class shares.

A shareholder may exercise his voting rights by proxy given to another person. The proxy must present the power of attorney prior to the start of a meeting of shareholders.

### **Liquidation Rights**

If we are liquidated, the assets remaining after the payment of all our debts, liquidation expenses and taxes will be distributed to the shareholders in proportion to the number of shares held by them. Holders of class shares, none of which are issued or outstanding as of the date of this report, have no preferences in liquidation.

### **General Meetings of Shareholders**

There are two types of general meetings of shareholders: (1) annual general meetings and (2) extraordinary general meetings. We are required to convene our annual general meeting within three months after the end of

each fiscal year. Subject to a board resolution or court approval, an extraordinary general meeting of shareholders may be held when necessary or at the request of the holders of an aggregate of 3% or more of our outstanding shares, or the holders of an aggregate of 0.75% or more of our outstanding stock with voting rights, who have held those shares for at least six months, under the Act on the Corporate Governance of Financial Companies and its sub-regulations.

Under the Korean Commercial Code, an extraordinary general meeting of shareholders may also be convened at the request of our audit committee, subject to a board resolution or court approval. Holders of non-voting shares may be entitled to request a general meeting of shareholders only to the extent the non-voting shares have become enfranchised as described under the section entitled "—Voting Rights" above, hereinafter referred to as "enfranchised non-voting shares." Meeting agendas will be determined by the board of directors or proposed by holders of an aggregate of 3% or more of the outstanding shares with voting rights or by holders of an aggregate of 0.1% or more of our issued and outstanding shares with voting rights, who have held those shares for at least six months, by way of a written proposal to the board of directors at least six weeks prior to the meeting, under the Act on the Corporate Governance of Financial Companies and its sub-regulations. Written notices or e-mail notices stating the date, place and agenda of the meeting must be given to the shareholders at least two weeks prior to the date of the general meeting of shareholders. Notice may, however, be given to holders of 1% or less of the total number of issued and outstanding shares which are entitled to vote, either by placing at least two public notices at least two weeks in advance of the meeting in at least two daily newspapers or by placing a notice through the electronic disclosure system operated by the Financial Supervisory Service or the Korea Exchange. Shareholders who are not on the shareholders' register as of the record date will not be entitled to receive notice of the general meeting of shareholders, and they will not be entitled to attend or vote at such meeting. Holders of enfranchised non-voting shares who are on the shareholders' register as of the record date will be entitled to receive notice of the general meeting of shareholders and they will be entitled to attend and vote at such meeting. Otherwise, holders of non-voting shares will not be entitled to receive notice of or vote at general meetings of shareholders.

The general meeting of shareholders will be held at our head office, which is our registered head office, or, if necessary, may be held anywhere in the vicinity of our head office.

# **Rights of Dissenting Shareholders**

Pursuant to the Financial Investment Services and Capital Markets Act and the Act on the Structural Improvement of the Financial Industry, in certain limited circumstances (including, without limitation, if we transfer all or any significant part of our business, if we acquire a part of the business of any other company and such acquisition has a material effect on our business, or if we merge or consolidate with another company), dissenting holders of shares of our common stock and our stock with preferred dividends will have the right to require us to purchase their shares. To exercise such a right, shareholders must submit to us a written notice of their dissent by the day prior to the general meeting of shareholders. Within 20 days (10 days in the case of a stock transfer or exchange to establish a financial holding company or to own all issued shares of a subsidiary under the Financial Holding Company Act) after the date on which the relevant resolution is passed at such meeting, such dissenting shareholders must request in writing that we purchase their shares. We are obligated to purchase the shares from dissenting shareholders within one month after the end of such request period at a price to be determined by negotiation between us and the shareholder. If we cannot agree on a price with the shareholder through such negotiations, the purchase price will be the arithmetic mean of (x) the weighted average of the closing share prices on the KRX KOSPI Market for the two-month period prior to the date of the adoption of the relevant board of directors' resolution, (y) the weighted average of the closing share prices on the KRX KOSPI Market for the one-month period prior to the date of the adoption of the relevant board of directors' resolution and (z) the weighted average of the closing share prices on the KRX KOSPI Market for the one-week period prior to the date of the adoption of the relevant board of directors' resolution. However, any dissenting shareholder who wishes to contest the purchase price may bring a claim in court.

### **Required Disclosure of Ownership**

Any person who directly or beneficially owns shares of our common stock that have voting rights, whether in the form of shares, ADSs, certificates representing the rights to subscribe for shares or equity-related debt securities (including convertible bonds and bonds with warrants) (which we refer to collectively as "Equity Securities") that, when taken together with the Equity Securities beneficially owned by specified related persons or by any person acting in concert with that person, account for 5% or more of our total issued and outstanding shares on a fully diluted basis must report that holding to the Financial Services Commission and the KRX KOSPI Market no more than five business days after reaching 5%. That person must also report any subsequent change in the ownership interest of 1% or more of our total issued and outstanding shares on a fully diluted basis to the same entities no more than five business days after the change.

Anyone violating these reporting requirements may suffer criminal sanctions, including fines, imprisonment, an administrative fine of up to (i) 0.001% of the aggregate market value of total issued and outstanding stock or (ii) \(\frac{\psi}{5}00\) million, whichever is lower, and/or a loss of voting rights with respect to the ownership of Equity Securities exceeding 5% of the total issued and outstanding Equity Securities with respect to which the reporting requirements were violated. Furthermore, the Financial Services Commission may order that person to dispose of the unreported Equity Securities.

In addition to the reporting requirements described above, any person whose direct or beneficial ownership of our stock accounts for 10% or more of the total issued and outstanding stock (which we refer to as a "major shareholder") must report the status of its shareholding to the Korea Securities Futures Commission and the KRX KOSPI Market within five days after becoming a major shareholder. Also, the major shareholder must report any subsequent change in its ownership interest to those same entities within five days of the occurrence of the change, unless the change in the number of shares is less than 1,000 shares and the amount involved in such change is less than \$10 million. A major shareholder that violates these reporting requirements may suffer criminal sanctions, including fines or imprisonment.

#### **Other Provisions**

Record Date. We may set a record date for determining the shareholders entitled to receive dividends by a resolution of the Board of Directors and provided that we give at least two (2) weeks prior notice of such record date to the public. The record date for quarterly dividends are the end of March, June and September. The Korean Commercial Code and our articles of incorporation permit us, upon at least two weeks' public notice, to set a record date and/or close the register of shareholders for not more than three months for the purpose of determining the shareholders entitled to certain rights pertaining to the shares. However, if the record date and the period of time during which the register of shareholders is to be closed are fixed in the articles of incorporation, the Korean Commercial Code waives the requirement to provide at least two weeks' public notice. The trading of shares and the electronic registration in respect thereof may continue while the register of shareholders is closed.

Annual and Interim Reports. At least one week before the annual general meeting of shareholders, we must make our annual report and audited financial statements available for inspection at our head office and at all of our branch offices. Copies of this report, the audited financial statements and any resolutions adopted at the general meeting of shareholders are available to our shareholders.

Under the Financial Investment Services and Capital Markets Act, we must file with the Financial Services Commission and the KRX KOSPI Market an annual business report within 90 days after the end of each fiscal year, a half-year business report within 45 days after the end of the first six months of each fiscal year and quarterly business reports within 45 days after the end of the first three months and nine months of each fiscal year. Copies of such business reports will be available for public inspection at the Financial Services Commission and the KRX KOSPI Market.

*Transfer of Shares*. Under the Korean Commercial Code, the transfer of shares is effected by the delivery of share certificates. The Act on Electronic Registration of Stocks, Bonds, Etc. provides, however, that in the case

of a company listed on the KRX KOSPI Market such as us, share transfers shall be effected by the electronic registration of the transfer on the electronic registry of the electronic registration agency and issuance of physical share certificates is prohibited. In order to assert shareholders' rights against us, the transferee must have his name and address registered on the register of shareholders. For this purpose, the electronic registration agency issues a statement of the shareholders (or *soyuja-myeong-se*) upon request of the company, whereby the company updates its register of shareholders in accordance with the Act on Electronic Registration of Stocks, Bonds, Etc..

Under current Korean regulations, the Korea Securities Depository, internationally recognized foreign custodians, financial investment companies with a dealing license (including domestic branches of foreign financial investment companies with such license), financial investment companies with a brokerage license (including domestic branches of foreign financial investment companies with such license), foreign exchange banks (including domestic branches of foreign banks) and financial investment companies with a collective investment license (including domestic branches of foreign financial investment companies with such license) may act as agents and provide related services for foreign shareholders.

In addition, foreign shareholders may appoint a standing proxy among the foregoing and generally may not allow any person other than the standing proxy to exercise rights to the acquired shares or perform any tasks related thereto on their behalf. Certain foreign exchange controls and securities regulations apply to the transfer of shares by non-residents or non-Koreans. See "Item 9.A. Offering and Listing Details" and "Item 10.D. Exchange Controls." Except as provided in the Financial Holding Company Act, the ceiling on the aggregate shareholdings of a single shareholder and persons who stand in a special relationship with such shareholder is 10% of our issued and outstanding voting shares. See "Item 4.B. Business Overview—Supervision and Regulation—Principal Regulations Applicable to Financial Holding Companies—Restrictions on Ownership of a Financial Holding Company."

Our Acquisition of Our Shares. Under the Korean Commercial Code, we may acquire our own shares upon a resolution of a general meeting of shareholders by either (i) purchasing them on a stock exchange or (ii) purchasing a number of shares, other than redeemable shares as set forth in Article 345, Paragraph (1) of the Korean Commercial Code, from each shareholder in proportion to their existing shareholding ratio through the methods set forth in the Presidential Decree, provided that the total purchase price does not exceed the amount of our profit that may be distributed as dividends in respect of the immediately preceding fiscal year.

Additionally, pursuant to the Financial Investment Services and Capital Markets Act and regulations under the Financial Holding Company Act and after submission of certain reports to the Financial Services Commission, we may purchase our own shares on the KRX KOSPI Market or through a tender offer, subject to the restrictions that (i) the aggregate purchase price of such shares may not exceed the total amount available for distribution of dividends at the end of the preceding fiscal year; and (ii) the purchase of such shares shall meet the risk-weighted capital adequacy ratio requirements prescribed in the regulations under the Financial Holding Company Act based on Bank for International Settlements standards.

Subject to certain limited exceptions, our subsidiaries will not be permitted to acquire our shares pursuant to the Financial Holding Company Act.

Item 10.C. Material Contracts

None.

Item 10.D. Exchange Controls

#### General

The Foreign Exchange Transaction Act of Korea and the Enforcement Decree and regulations under that Act regulate investment in Korean securities by non-residents and issuance of securities outside Korea by Korean companies. We collectively refer to these laws and regulations as the "Foreign Exchange Transaction Laws." Non-residents may invest in Korean securities only to the extent specifically allowed by the Foreign Exchange Transaction Laws or otherwise permitted by the Ministry of Economy and Finance. The Financial Services

Commission has also adopted regulations that restrict foreign investment in Korean securities and regulate the issuance of securities outside Korea by Korean companies, pursuant to its authority under the Financial Investment Services and Capital Markets Act.

Under the Foreign Exchange Transaction Laws, if the Korean government deems that:

- the need to do so is inevitable due to the outbreak of natural calamities, wars, conflict of arms or grave
  and sudden changes in domestic or foreign economic circumstances or other similar situations, the
  Ministry of Economy and Finance may temporarily suspend payment, receipt or the whole or part of
  transactions to which the Foreign Exchange Transaction Laws apply, or impose an obligation to safekeep, deposit or sell means of payment in or to certain Korean governmental agencies or financial
  institutions; and
- international balance of payments and international finance are confronted or are likely to be confronted
  with serious difficulty or the movement of capital between Korea and abroad brings or is likely to bring
  about serious obstacles in carrying out its currency policies, exchange rate policies and other
  macroeconomic policies, the Ministry of Economy and Finance may take measures to require any person
  who intends to perform capital transactions to obtain permission or to require any person who performs
  capital transactions to deposit part of the payments received in these transactions at certain Korean
  governmental agencies or financial institutions.

Both of these actions are subject to limitations specified by the Foreign Exchange Transaction Laws.

#### **Restrictions Applicable to Shares**

Under the Foreign Exchange Transaction Laws, a foreign investor who intends to acquire shares must designate a foreign exchange bank at which he or she must open a foreign currency account and a Won account exclusively for stock investments. Approval is not required for remittance into Korea and deposit of foreign currency funds in the foreign currency account. Foreign currency funds may be transferred from the foreign currency account at the time required to place a deposit for, or settle the purchase price of, a stock purchase transaction to a Won account opened at a financial investment company with a dealing and/or brokerage license. Funds in the foreign currency account may be remitted abroad without any Korean governmental approval.

Dividends on shares of Korean companies are paid in Won. Korean governmental approval is not required for foreign investors to receive dividends on, or the Won proceeds from the sale of, any shares to be paid, received and retained in Korea. Dividends paid on, and the Won proceeds of the sale of, any shares held by a non-resident of Korea must be deposited either in a Won account with the investor's financial investment company with a dealing and/or brokerage license or in its own Won account. Funds in a foreign investor's Won account may be transferred to its foreign currency account or withdrawn for local living expenses up to certain limits. These funds may also be used to make future investments in shares or to pay the subscription price of new shares obtained through the exercise of pre-emptive rights.

Financial investment companies with a dealing and/or brokerage license may open foreign currency accounts with foreign exchange banks exclusively to accommodate foreign investors' stock investments in Korea. Through these accounts, such financial investment companies may enter into limited foreign exchange transactions, such as converting foreign currency funds and Won funds, either as a counterparty to or on behalf of foreign investors, without the investors having to open their own accounts with foreign exchange banks.

# Item 10.E. Taxation

The following summary is based upon tax laws, regulations, rulings, decrees, income tax conventions (treaties), administrative practice and judicial decisions of Korea and the United States as of the date of this annual report, and is subject to any change in the laws of Korea or the United States that may come into effect after such date.

# **United States Taxation**

This summary describes certain material U.S. federal income tax consequences for a U.S. holder (as defined below) of acquiring, owning, and disposing of common shares or ADSs. This summary applies to you only if you hold the common shares or ADSs as capital assets for U.S. federal income tax purposes (generally, property held for investment). This summary does not apply to you if you are a member of a class of holders subject to special rules, including (but not limited to):

- a broker or dealer in securities or currencies;
- a trader in securities that elects to use a mark-to-market method of accounting for securities holdings;
- a bank or financial institution;
- a life insurance company, real estate investment trust, or regulated investment company;
- a tax-exempt organization, qualified retirement plan, individual retirement account, or other tax-deferred account;
- an entity treated as a partnership or other passthrough entity (or investors therein) for U.S. federal income tax purposes;
- a person that holds common shares or ADSs that are a hedge or that are hedged against interest rate or currency risks;
- a person that holds common shares or ADSs as part of a straddle or conversion transaction for tax purposes;
- a person whose functional currency for tax purposes is not the U.S. dollar; or
- a person that owns or is deemed to own (directly, indirectly, or constructively) 10% or more of our stock, measured by voting power or value.

In addition, this summary does not discuss the application of the U.S. federal estate and gift taxes, the Medicare net investment income tax or the alternative minimum tax, or any state, local or other tax consequences of purchasing, owning, and disposing of common shares or ADSs. You should consult your own tax advisers concerning the U.S. federal, state, local, and other tax consequences of purchasing, owning, and disposing of common shares or ADSs in your particular circumstances.

This summary is based on the Internal Revenue Code of 1986, as amended, its legislative history, existing and proposed regulations promulgated thereunder, and published rulings and court decisions, all as currently in effect. These laws are subject to change, possibly on a retroactive basis. We have not requested a ruling from the Internal Revenue Service with respect to any of the U.S. federal income tax considerations described below, and as a result, the Internal Revenue Service could disagree with portions of this discussion. This summary is for general information purposes only and does not purport to be a complete discussion of all potential tax considerations that may be relevant to a particular person's decision to acquire common shares or ADSs.

For purposes of this summary, you are a "U.S. holder" if you are the beneficial owner of a common share or an ADS and are:

- a citizen or resident of the United States;
- a U.S. domestic corporation; or
- otherwise subject to U.S. federal income tax on a net income basis with respect to income from the common share or ADS.

In general, if you are the beneficial owner of ADSs, you will be treated as the beneficial owner of the common shares represented by those ADSs for U.S. federal income tax purposes, and no gain or loss will be recognized if you exchange an ADS for the common share represented by that ADS.

#### **Dividends**

The gross amount of cash distributions that you receive generally will be taxable as dividends to the extent paid out of our current or accumulated earnings and profits, as determined under United States federal income tax principles. Any dividends you receive (including any withheld taxes) generally will be subject to U.S. federal income taxation as foreign source dividend income and will not be eligible for the dividends received deduction. Dividends paid in Won will be included in your income in a U.S. dollar amount calculated by reference to the exchange rate in effect on the date that you receive the dividend (or the depositary receives the dividend, in the case of ADSs), regardless of whether the payment is in fact converted into U.S. dollars. If such a dividend is converted into U.S. dollars on the date of receipt, you generally should not be required to recognize foreign currency gain or loss in respect of the dividend income.

Subject to certain exceptions for short-term and hedged positions, the U.S. dollar amount of dividends received by an individual with respect to our common shares or ADSs will be subject to taxation at reduced rates if the dividends are "qualified dividends." Dividends paid on the common shares or ADSs will be treated as qualified dividends if (i) the common shares or ADSs are readily tradable on an established securities market in the United States or we are eligible for the benefits of a comprehensive tax treaty with the United States that the U.S. Treasury determines is satisfactory for purposes of this provision and that includes an exchange of information program; (ii) we were not, in the year prior to the year in which the dividend was paid, and are not, in the year in which the dividend is paid, a passive foreign investment company as defined for U.S. federal income tax purposes, which we refer to as a PFIC, and (iii) certain holding period requirements are met. The ADSs are listed on the New York Stock Exchange and will qualify as readily tradable on an established securities market in the United States so long as they are so listed. In addition, the U.S. Treasury has determined that the Korea-United States income tax treaty (the "Treaty") meets the requirements for reduced rates of taxation, and we believe we are eligible for the benefits of that Treaty. Based on our audited financial statements, we believe that we were not a PFIC in our 2021 and 2022 taxable years. In addition, based on our current expectations regarding our income, assets and activities, we do not anticipate becoming a PFIC for our 2023 taxable year. Therefore, we believe that dividends received by U.S. holders with respect to either common shares or ADSs will be "qualified dividends." Holders should consult their own tax advisers regarding the availability of the reduced dividend tax rate in light of their own particular circumstances.

Distributions of additional shares in respect of common shares or ADSs that are made as part of a pro-rata distribution to all of our shareholders generally will not be subject to U.S. federal income tax.

#### Sale or Other Disposition

For U.S. federal income tax purposes, gain or loss you realize on a sale or other disposition of common shares or ADSs generally will be treated as U.S. source capital gain or loss, and will be long-term capital gain or loss if the common shares or ADSs were held for more than one year. Your ability to offset capital losses against ordinary income is limited. Long-term capital gain recognized by an individual U.S. holder generally is subject to taxation at reduced rates.

If a U.S. holder sells or otherwise disposes of our common shares or ADSs in exchange for currency other than U.S. dollars, the amount realized generally will be the U.S. dollar value of the currency received at the spot rate on the date of sale or other disposition (or, if the shares are traded on an established securities market at such time, in the case of cash basis and electing accrual basis U.S. holders, the settlement date). An accrual basis U.S. holder that does not elect to determine the amount realized using the spot exchange rate on the settlement date will recognize foreign currency gain or loss equal to the difference between the U.S. dollar value of the amount received based on the spot exchange rates in effect on the date of the sale or other disposition and the settlement date. If an accrual basis U.S. holder makes the election described above, it must be applied consistently from year to year and cannot be revoked without the consent of the Internal Revenue Service, or the IRS. A U.S. holder should consult its own tax advisors regarding the treatment of any foreign currency gain or loss realized with respect to any currency received in a sale or other disposition of the common shares or ADSs.

# Foreign Tax Credit Considerations

Dividends paid on the common shares or ADSs will constitute income from sources without the United States for U.S. foreign tax credit purposes. As a result of recent changes to the U.S. foreign tax credit rules, for taxable years beginning on or after December 28, 2021, Korean tax generally will need to satisfy certain additional requirements in order to be considered a creditable tax for a U.S. holder, except in the case of a U.S. holder that is eligible for, and properly claims, the benefits of the Treaty. We have not determined whether these requirements have been met, and, accordingly, no assurance can be given that any Korean tax will be creditable for U.S. holders. Alternatively, a U.S. holder may elect to deduct Korean withholding taxes in computing such U.S. holder's taxable income (provided that the U.S. holder elects to deduct, rather than credit, all foreign income taxes paid or accrued for the relevant taxable year), subject to generally applicable limitations under U.S. tax law.

Any Korean securities transaction tax or agriculture and fishery special surtax that you pay will not be creditable for foreign tax credit purposes.

The calculation of foreign tax credits and, in the case of a U.S. holder that elects to deduct foreign taxes, the availability of deductions involve the application of complex rules that depend on a U.S. holder's particular circumstances. You should consult your own tax advisers regarding the creditability or deductibility of such taxes.

### Specified Foreign Financial Assets

Certain U.S. holders that own "specified foreign financial assets" with an aggregate value in excess of US\$50,000 on the last day of the taxable year or US\$75,000 at any time during the taxable year are generally required to file an information statement along with their tax returns, currently on IRS Form 8938, with respect to such assets. "Specified foreign financial assets" include any financial accounts held at a non-U.S. financial institution, as well as securities issued by a non-U.S. issuer (which would include the common shares and ADSs) that are not held in accounts maintained by financial institutions. Higher reporting thresholds apply to certain individuals living abroad and to certain married individuals. Regulations extend this reporting requirement to certain entities that are treated as formed or availed of to hold direct or indirect interests in specified foreign financial assets based on certain objective criteria. U.S. holders who fail to report the required information could be subject to substantial penalties. In addition, the statute of limitations for assessment of tax would be suspended, in whole or part. Prospective investors should consult their own tax advisors concerning the application of these rules to their investment in the common shares or ADSs, including the application of the rules to their particular circumstances.

#### U.S. Information Reporting and Backup Withholding Rules

Payments of dividends and sales proceeds that are made within the United States or through certain U.S.-related financial intermediaries are subject to information reporting and may be subject to backup withholding unless the holder provides an accurate taxpayer identification number and makes any other required certification or otherwise establishes an exemption. Backup withholding is not an additional tax. The amount of any backup withholding from a payment to a U.S. holder will be allowed as a refund or credit against the U.S. holder's U.S. federal income tax liability, provided the required information is furnished to the IRS in a timely manner.

#### **Korean Taxation**

The following summary of Korean tax considerations applies to you so long as you are not:

- a resident of Korea;
- a corporation with its head office, principal place of business or place of effective management in Korea; or
- engaged in a trade or business in Korea through a permanent establishment or a fixed base to which the relevant income is attributable or with which the relevant income is effectively connected.

Please consult your own tax advisers as to the Korean, state, local and other tax consequences of the purchase, ownership and disposition of common shares or ADSs.

## Taxation of Dividends on Common Shares or ADSs

We will deduct Korean withholding tax from dividends paid to you (whether payable in cash or in shares) at a rate of 22.0% (inclusive of local income tax). If you are a qualified resident and a beneficial owner of the dividends in a country that has entered into a tax treaty with Korea, you may qualify for a reduced rate of Korean withholding tax. See "—Tax Treaties" below for a discussion on treaty benefits. If we distribute to you free shares representing a transfer of earning surplus or certain capital reserves into paid-in capital, that distribution may be subject to Korean withholding tax.

## Taxation of Capital Gains from Transfer of Common Shares or ADSs

As a general rule, capital gains earned by non-residents upon transfer of our common shares or ADSs are subject to Korean withholding tax at the lower of (1) 11.0% (inclusive of local income tax) of the gross proceeds realized or (2) subject to the production of satisfactory evidence of acquisition costs and certain direct transaction costs of the common shares or ADSs, 22.0% (inclusive of local income tax) of the net realized gain, unless exempt from Korean income taxation under the applicable Korean tax treaty with the non-resident's country of tax residence. See "—Tax Treaties" below for a discussion on treaty benefits. Even if you do not qualify for an exemption under a tax treaty, you will not be subject to the foregoing withholding tax on capital gains if you qualify under the relevant Korean domestic tax law exemptions discussed in the following paragraphs.

In regard to the transfer of our common shares through the Korea Exchange, you will not be subject to the withholding tax on capital gains (as described in the preceding paragraph) if you (1) have no permanent establishment in Korea and (2) did not own or have not owned (together with any shares owned by any person with which you have a certain special relationship) 25% or more of the total issued and outstanding shares, which may include the common shares represented by the ADSs, at any time during the calendar year in which the sale occurs and during the five consecutive calendar years prior to the calendar year in which the sale occurs.

Under Korean tax law, ADSs are viewed as shares of common stock for capital gains tax purposes. Accordingly, capital gains from the sale or disposition of ADSs are taxed (if such sale or disposition constitutes a taxable event) as if such gains are from the sale or disposition of the underlying common shares. Capital gains that you earn (regardless of whether you have a permanent establishment in Korea) from a transfer of ADSs outside of Korea will generally be exempt from Korean income taxation by virtue of the Special Tax Treatment Control Law of Korea, or the STTCL, provided that the issuance of the ADSs is deemed to be an overseas issuance under the STTCL. However, if you transfer ADSs after having converted the underlying common shares, such exemption under the STTCL will not apply and you will be required to file a transfer income tax return or a corporate income tax return and pay tax in Korea with respect to any capital gains derived from such transfer unless the purchaser or a financial investment company with a brokerage license, as applicable, withholds and pays such tax.

If you are subject to tax on capital gains with respect to the sale of ADSs, or of our common shares you acquired as a result of a withdrawal, the purchaser or, in the case of the sale of the common shares on the Korea Exchange or through a financial investment company with a brokerage license in Korea, such financial investment company, is required to withhold Korean tax on capital gains from the sales price in an amount equal to the lower of (1) 11.0% (inclusive of local income tax) of the gross realization proceeds or (2) subject to the production of satisfactory evidence of acquisition costs and certain direct transaction costs of the common shares or ADSs, 22.0% (inclusive of local income tax) of the net realized gain, and to make payment of these amounts to the Korean tax authority, unless you establish your entitlement to an exemption under an applicable tax treaty or domestic tax law. See "—Tax Treaties" below for a discussion on claiming treaty benefits.

#### Tax Treaties

Korea has entered into a number of income tax treaties with other countries (including the United States), which would reduce or exempt Korean withholding tax on dividends on, and capital gains on transfer of, the common shares or ADSs. For example, under the Korea-United States income tax treaty, reduced rates of Korean withholding tax of 16.5% or 11.0% (depending on your shareholding ratio and inclusive of local income tax) on dividends and an exemption from Korean withholding tax on capital gains are available to residents of the United States that are beneficial owners of the relevant dividend income or capital gains, subject to certain exceptions. However, under Article 17 (Investment or Holding Companies) of the Korea-United States income tax treaty, such reduced rates and exemption do not apply if (i) you are a United States corporation, (ii) by reason of any special measures, the tax imposed on you by the United States with respect to such dividend income or capital gains is substantially less than the tax generally imposed by the United States on corporate profits and (iii) 25% or more of your capital is held of record or is otherwise determined, after consultation between competent authorities of the United States and Korea, to be owned directly or indirectly by one or more persons who are not individual residents of the United States. Also, under Article 16 (Capital Gains) of the Korea-United States income tax treaty, the exemption on capital gains does not apply if (a) you have a permanent establishment in Korea and any shares of common stock in which you hold an interest and which give rise to capital gains are effectively connected to such permanent establishment, (b) you are an individual and you maintain a fixed base in Korea for an aggregate of 183 days or more during a given taxable year and your ADSs or common shares giving rise to capital gains are effectively connected with such fixed base or (c) you are an individual and you are present in Korea for an aggregate of 183 days or more during a given taxable year.

You should inquire for yourself whether you are entitled to the benefit of a tax treaty between Korea and the country where you are a resident. It is the responsibility of the party claiming the benefits of an income tax treaty in respect of dividend payments or capital gains to submit to us, the purchaser or the financial investment company, as applicable, a certificate as to his tax residence. In the absence of sufficient proof, we, the purchaser or the financial investment company, as applicable, must withhold tax at the normal rates. Furthermore, in order for you to claim the benefit of a tax rate reduction or tax exemption on certain Korean source income (such as dividends or capital gains) under an applicable tax treaty, Korean tax law requires you (or your agent) to submit an application (for a reduced withholding tax rate, the "application for entitlement to a reduced tax rate," and in the case of exemptions from withholding tax, the "application for tax exemption" along with a certificate of your tax residency issued by a competent authority of your country of tax residence, subject to certain exceptions) as the beneficial owner of such Korean source income, or a BO application. For example, a U.S. resident would be required to provide a Form 6166 as a certificate of tax residency together with the application for entitlement to reduced tax rate or the application for tax exemption. Such application should be submitted to the withholding agent prior to the payment date of the relevant income. Subject to certain exceptions, where the relevant income is paid to an overseas investment vehicle (which is not the beneficial owner of such income), or an OIV, a beneficial owner claiming the benefit of an applicable tax treaty with respect to such income must submit its BO application to such OIV, which must submit an OIV report and a schedule of beneficial owners (as well as the BO applications collected from each beneficial owner, if such beneficial owner is applying for a tax exemption) to the withholding agent prior to the payment date of such income. Effective January 1, 2020, an OIV that was not established for the purpose of unjustifiably reducing income tax liabilities in Korea and bears tax liabilities in the country of its residence is deemed to be a beneficial owner of Korean source income for income tax purposes. Starting from January 1, 2022, an OIV is deemed to be a beneficial owner of the Korean source income if (i) under the applicable tax treaty, the OIV bears tax liabilities in the country in which it is established or the OIV is deemed to be the beneficial owner of the Korean source income, and (ii) the Korean source income is eligible for the treaty benefits under the tax treaty. The benefits under a tax treaty between Korea and the country of such OIV's residence will apply with respect to the relevant income paid to such OIV, subject to certain application requirements as prescribed by the Corporate Income Tax or Individual Income Tax Law. In the case of a tax exemption application, the withholding agent is required to submit such application (together with the applicable OIV report in the case of income paid to an OIV) to the relevant district tax office by the ninth day of the month following the date of the payment of such income.

## Inheritance Tax and Gift Tax

If you die while holding an ADS or donate an ADS, it is unclear whether, for Korean inheritance tax and gift tax purposes, you will be treated as the owner of the common shares underlying the ADSs. If the tax authority interprets depositary receipts as the underlying share certificates, you may be treated as the owner of the common shares and your heir or the donee (or in certain circumstances, you as the donor) will be subject to Korean inheritance tax or gift tax presently at the rate of 10% to 50%, provided that the value of the ADSs or common shares is greater than a specified amount.

If you die while holding a common share or donate a common share, your heir or donee (or in certain circumstances, you as the donor) will be subject to Korean inheritance tax or gift tax at the same rate as indicated above.

At present, Korea has not entered into any tax treaty relating to inheritance or gift taxes.

#### Securities Transaction Tax

If you transfer our common shares on the Korea Exchange, you will be subject to securities transaction tax at the rate of 0.05% (if the transfer is made in 2023), 0.03% (if the transfer is made in 2024) or 0% (if the transfer is made in 2025 and thereafter) and an agriculture and fishery special surtax at the rate of 0.15% of the sale price of the common shares. If your transfer of the common shares is not made on the Korea Exchange, subject to certain exceptions, you will be subject to securities transaction tax at the rate of 0.35% (if the transfer is made in 2023 and thereafter) and will not be subject to an agriculture and fishery special surtax.

Under the Securities Transaction Tax Law, depositary receipts (such as American depositary receipts) constitute share certificates subject to the securities transaction tax. However, the transfer of depositary receipts listed on the New York Stock Exchange, the Nasdaq Global Market, or other qualified foreign exchanges is exempt from the securities transaction tax.

In principle, the securities transaction tax, if applicable, must be paid by the transferor of the common shares or ADSs. When the transfer is effected through a securities settlement company in Korea, such settlement company is generally required to withhold and pay the tax to the tax authorities. When such transfer is made through a financial investment company only, such financial investment company is required to withhold and pay the tax. Where the transfer is effected by a non-resident without a permanent establishment in Korea, other than through a securities settlement company or a financial investment company, the transferee is required to withhold the securities transaction tax.

Non-reporting or under-reporting of securities transaction tax will generally result in penalties equal to 20% to 60% of the non-reported tax amount or 10% to 60% of under-reported tax amount. Also, a failure to timely pay securities transaction tax will result in a penalty equal to 9.125% (or 8.03% starting from February 2022) per annum of the due but unpaid tax amount. The penalties are imposed on the party responsible for paying the securities transaction tax or, if such tax is required to be withheld, on the party that has the obligation to withhold.

Item 10.F. Dividends and Paying Agents

**Not Applicable** 

Item 10.G. Statements by Experts

**Not Applicable** 

#### Item 10.H. Documents on Display

We are subject to the information requirements of the Exchange Act, and, in accordance therewith, are required to file reports, including annual reports on Form 20-F, and other information with the U.S. Securities and Exchange Commission. These materials, including this annual report and the exhibits thereto, may be

inspected and copied at the Commission's public reference rooms in Washington, D.C., New York, New York and Chicago, Illinois. Please call the Commission at 1-800-SEC-0330 for further information on the public reference rooms. We are also required to make filings with the Commission by electronic means. Any filings we make electronically will be available to the public over the Internet at the Commission's web site at <a href="http://www.sec.gov">http://www.sec.gov</a>.

## Item 10.I. Subsidiary Information

## Not Applicable

#### Item 11. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

#### Overview

As a financial services provider, we are exposed to various risks related to our lending and trading businesses, our funding activities and our operating environment, principally through Woori Bank, our banking subsidiary. Our goal in risk management is to ensure that we identify, measure, monitor and control the various risks that arise, and that our organization adheres strictly to the policies and procedures which we establish to address these risks. We seek to take a conservative approach to risk management in order to better insulate our operations from adverse events. Risks we face include:

- credit risk:
- market risk (primarily interest rate risk, equity risk, foreign exchange risk and commodity risk);
- · liquidity risk; and
- operational and business risk (including legal risk).

We operate a standardized risk management system which enhances our risk management capabilities by enabling us to exchange information among our and our subsidiaries' risk management operations. Woori Bank, our banking subsidiary, has further strengthened its risk management systems by (i) using Tier I capital as "available capital" for purposes of our risk capital allocation to fulfill Basel III requirements, and (ii) including "stressed VaR" to our market risk capital calculations in accordance with the guidance of the Financial Supervisory Service. We use our risk management systems to manage our risks within acceptable limits and to otherwise ensure the soundness of our assets and the stability of our operations.

We allocate our total risk capital in accordance with the guidelines set by our Board Risk Management Committee. As described in more detail below, the committee allocates risk capital and approves the risk limit requests of our subsidiaries. Through our standardized risk management system, we allocate our risk capital:

- with respect to our credit risk on the basis of a standardized approach as well as other portfolio credit models;
- with respect to our market risk for trading activities based on the VaR method (including the stressed VaR method) for Woori Bank, and a standardized approach for our other subsidiaries;
- with respect to our interest rate risk based on the IRRBB standard method (ΔEVE) on a group-wide basis, replacing the previous historical simulation and standardized methods; and
- with respect to our operational risk through an advanced measurement approach for Woori Bank and a standardized approach for our other subsidiaries, in accordance with Basel III.

Our risk capital allocation by entity as a percentage of available capital, on a non-consolidated basis, with respect to 2023 is as follows:

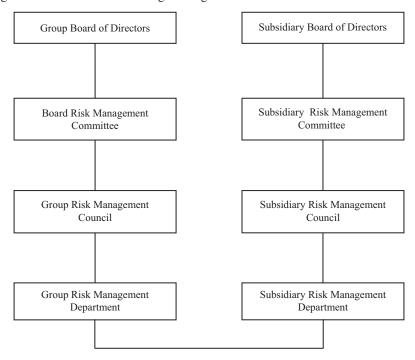
	Available capital <sup>(1)</sup>		Risk appetite	Credit	Market	Operational	Interest rate	Credit Concentration	Liquidity	Strategic/ Reputation
				(in	billions	of Won, exc	ept percentage	es)		
Woori Financial										
Group	28,173	21,587	76.6%	16,989	1,100	1,698	1,303	825	363	845
Woori Bank	23,099	18,143	78.5%	14,299	1,000	1,535	850	766	330	693
Woori Card	2,415	1,237	51.2%	1,006	18	87	223	_		
Woori Financial										
Capital	1,522	1,095	71.9%	988	_	35	117	_	_	
Woori Investment										
Bank	664	476	71.7%	412	31	16	40	_	_	
Woori Asset Trust	219	47	21.6%	38	_	15	4	_	_	
Woori Savings										
Bank	229	142	62.0%	123		5	21	_		_
Woori Card Woori Financial Capital Woori Investment Bank Woori Asset Trust Woori Savings	2,415 1,522 664 219	1,237 1,095 476 47	51.2% 71.9% 71.7% 21.6%	1,006 988 412 38	18	87 35 16	223 117 40 4	/00 ———————————————————————————————————		——————————————————————————————————————

<sup>(1)</sup> Estimates based on Tier I capital.

#### **Organization**

We have a multi-tiered risk management governance structure. Our Board Risk Management Committee is ultimately responsible for group-wide risk management, and directs the various subordinate risk management entities. The Group Risk Management Council answers to the Board Risk Management Committee and, together with the Group Risk Management Department, coordinates the execution of its directives with each Subsidiary Risk Management Department. Each Subsidiary Risk Management Committee, based on the Board Risk Management Committee's directives, determines risk management strategies and implements risk management policies and guidelines for the relevant subsidiary, sets the subsidiary's operational and business risk management policies and guidelines and directs the applicable Subsidiary Risk Management Department with support from the applicable Subsidiary Risk Management Council, but must keep within the risk guidelines of the Board Risk Management Committee. The Subsidiary Risk Management Committees generally receive input from their respective Subsidiary Risk Management Councils and Subsidiary Risk Management Departments.

The following chart sets out our risk management governance structure as of the date of this annual report:



We operate a "double report" system with respect to our risk management procedures. Each of our Subsidiary Risk Management Departments is required to submit risk management reports directly to the Group Risk Management Department. Through this internal reporting system, we are able to better ascertain and strengthen the monitoring of our subsidiaries' risk management and are able to quickly address any deviation from our group-wide risk policies. We have further supplemented our double report system by strengthening the role and independence of chief risk officers in our subsidiaries and expanding the role of Subsidiary Risk Management Department is required to report directly to such subsidiary's chief risk officer on all material risk management issues as well as following the procedures under the double report system.

The Board Risk Management Committee, the Group Risk Management Council, the Subsidiary Risk Management Committees and the Subsidiary Risk Management Councils are responsible for managing risks relating to credit, markets, asset and liability management and liquidity. Each Subsidiary Risk Management Department is generally responsible for managing operational risks at the relevant subsidiary, while the Audit Department coordinates the execution of our operational and business risk management policy, particularly with regard to internal subsidiary practices, and the Legal and Compliance Department monitors compliance risk and makes suggestions regarding regulatory issues to the Financial Supervisory Service.

## **Board Risk Management Committee**

The Board Risk Management Committee is our highest decision-making body with respect to our risk management operations. Our board of directors has delegated to it the authority to oversee and make determinations on all significant issues relating to our risk management system. It comprehensively manages and controls our risks as well as those of our subsidiaries, so that it may detect, measure, monitor and control the potential risks that may arise during management. The committee's major activities include:

- determining and amending risk management policies, guidelines and limits in conformity with the strategy established by the board of directors;
- determining the appropriate level of risks that we should be willing to undertake, including in
  connection with key business activities such as acquisitions, investments or entering into new business
  areas, prior to a decision by the board of directors on such matters;
- allocating risk capital to each subsidiary and approving the risk limits of our subsidiaries;
- reviewing our group-wide risk profile, including the level of risks we are exposed to and the status of our risk management operations; and
- monitoring our subsidiaries' compliance with our risk policies.

The Board Risk Management Committee is composed of three outside directors. It operates independently from all business groups and individual board members, and reports directly to our board of directors. We require the chairperson of the Board Risk Management Committee to be chosen from among the outside directors in order to enhance the independence and experience level of such chairperson. Our Board Risk Management Committee convenes at least quarterly, and makes decisions by a majority vote of the attending members. At least a majority of the committee members must attend to constitute a quorum.

## Group Risk Management Council

Our Group Risk Management Council is responsible for coordinating with the Subsidiary Risk Management Departments to ensure that they execute the policies, guidelines and limits established by the Board Risk Management Committee. The Group Risk Management Council's major activities include:

- analyzing our risk status using information provided by the Subsidiary Risk Management Departments;
- adjusting the integrated risk-adjusted capital allocation plan and risk limits for each of our subsidiaries;
- reviewing the key decisions of each Subsidiary Risk Management Committee and discussing and resolving any risk management issues raised by those committees;

- coordinating issues relating to the integration of our risk management functions; and
- performing any other duties delegated by the Board Risk Management Committee.

The Group Risk Management Council consists of eleven members, including our chief risk officer and the chief risk officers of our subsidiaries. It operates independently from all business groups, and reports directly to the Board Risk Management Committee. The Group Risk Management Council convenes on a quarterly basis.

Our subsidiaries, in most cases through their respective Subsidiary Risk Management Departments, provide a variety of information to the Group Risk Management Council, including:

- reports regarding the status of overall risk management, the status of limit compliance, and analysis and results of stress testing and back testing; and
- reports regarding asset and liability management matters, including changes in risk-weighted assets and the status of our credit portfolio on a periodic basis.

#### Subsidiary Risk Management Committees

Each of our subsidiaries' operating businesses that require risk management delegates risk management authority to its Subsidiary Risk Management Committee. Each Subsidiary Risk Management Committee measures and monitors the various risks faced by the relevant subsidiary and reports to that subsidiary's board of directors regarding decisions that it makes on risk management issues. It also makes strategic decisions regarding the operations of the relevant subsidiary, such as allocating credit risk limits, setting total exposure limits and market risk-related limits and determining which market risk derivatives instruments the subsidiary can trade. The major activities of each Subsidiary Risk Management Committee include:

- determining and monitoring risk policies, guidelines, limits and tolerance levels and the level of subsidiary risk in accordance with group policy, with the support of the relevant Subsidiary Risk Management Council;
- reviewing and analyzing the subsidiary's risk profile;
- setting limits for and adjusting the risk-adjusted capital allocation plan and risk levels for each business group within the subsidiary; and
- monitoring compliance with our group-wide risk management policies and practices at the business group and subsidiary level.

## Subsidiary Risk Management Council

Each of our relevant subsidiaries has a Subsidiary Risk Management Council, which is responsible for supporting the relevant Subsidiary Risk Management Committee in the implementation of its risk management policies and guidelines for such subsidiary, including by reviewing and reporting on agenda items to be discussed at meetings of the relevant Subsidiary Risk Management Committee, reviewing reports from the relevant Subsidiary Risk Management Department and performing any other duties delegated by the relevant Subsidiary Risk Management Committee.

Each Subsidiary Risk Management Council is generally comprised of the subsidiary's chief risk management officer, the head of its Subsidiary Risk Management Department and other executive officers responsible for such subsidiary's risk management-related functions. It operates independently from all business units, and reports directly to the Subsidiary Risk Management Committee.

#### **Credit Risk Management**

Our credit risk management policy objectives are to improve our asset quality, reduce our non-performing loans and minimize our concentration risk through a diversified and balanced risk-weighted loan portfolio. We manage credit risk and continually monitor and improve our credit risk-related policies and guidelines to reflect

changing risks in our business and the industries and sectors in which our customers operate. For example, we have recently strengthened our monitoring of asset quality and analysis of risk indicators by focusing on industries and sectors that are impacted by the COVID-19 pandemic and will continue to do so by reflecting any additional volatility or long-term effects thereof.

We believe that an essential part of achieving our credit risk management objectives is utilizing a standardized risk management system so that we can identify and manage the risks generated by our businesses using a consistent approach. Woori Bank is currently using a centralized credit risk management system called the Credit Wizard system. Credit Wizard is a credit risk management system which combines credit risk management and the credit approval process on a transactional level with respect to individual borrowers and approval with respect to each individual loan or credit. The system quantifies credit risk with respect to corporate borrowers using a "mark-to-market" methodology, which reflects both the likelihood of a default by a borrower as well as the likelihood of a change in such borrower's credit rating, and quantifies credit risk with respect to retail borrowers using a "default mode" methodology, which reflects the likelihood of a default by a borrower. We believe that our Credit Wizard system is a systematic and efficient credit evaluation system and that Woori Bank has expedited its loan review process and improved its ability to monitor and evaluate its overall risk profile by using this system. The main characteristics of our Credit Wizard system are as follows:

- automation of credit risk management system, which allows us to centralize and automate many tasks relating to our credit risk management system;
- automatic recognition and processing of different forms of credit, which allows us to process and approve different types of credit, such as new applicants, renewing applicants and changes in the condition of the loan or credit approved;
- incorporation of credit risk management prior to approval of credit, which allows us to consider
  individualized characteristics of a borrower and enables us to calculate a more accurate price with
  respect to the loan or credit approved;
- automatic credit risk monitoring after approval of credit, which allows us to evaluate and re-rate the loan or credit on a real-time basis as a result of any change in the characteristics of the borrower (including the condition of the underlying collateral, change in borrowing limit and early warning characteristics); and
- automatic verification of internal procedures and regulations with respect to approval of credit, which
  reduces our operational risk and ensures that there are no material deviations from our loan and credit
  policies.

We also impose a credit risk limit for Woori Bank with respect to "large exposures." We aim to avoid concentrations of exposure with respect to any single corporate borrower or affiliated group of corporate borrowers. Accordingly, we have established aggregate exposure limits based on capital adequacy levels of Woori Bank and, with respect to individual corporate borrowers, established limits by dividing the "expected loss" with respect to companies affiliated with such corporate borrower with the "unexpected loss" (a measurement of credit risk) of such borrower and converting that into an exposure amount. We use this as the basis for our "large exposure" limits with respect to such corporate borrower.

We impose a "principal investment" limit for investment activities that our subsidiaries undertake as a principal (as opposed to as an agent). The principal investment limit for each subsidiary is set as a certain percentage of the capitalization of such subsidiary.

We use our credit risk management systems to measure and control credit risk, to evaluate and approve new credit and to review and monitor outstanding credit. We conduct various quantitative and qualitative analyses to establish acceptable risk levels that provide what we believe are appropriate levels of return on investments. The credit risk management systems that we use to do this integrate various data, including customers' financial and economic condition, limits on loans and guarantee amounts, cash flow evaluations, collateral levels, our desired profit margin and the likelihood of unexpected loan losses.

Each relevant subsidiary monitors its level of risk, determines how that level compares to our target optimized level of risk on a monthly basis and produces risk analysis reports and optimization reports on a monthly basis and stress test reports on an ad hoc basis. These reports are sent to the respective Subsidiary Risk Management Committees and to the Board Risk Management Committee and provide a basis to set risk limits for, and allocate capital to, a subsidiary's business groups.

## Credit Evaluation and Approval

Our subsidiaries evaluate the credit of every loan applicant and guarantor before approving any loans, except for:

- loans guaranteed by letters of guarantee issued by the Korea Credit Guarantee Fund, the Korea Technology Finance Corporation or certain other specified Korean government-controlled funds;
- · loans guaranteed by highly-rated banks;
- · loans fully secured by deposits with us; and
- loans against commercial promissory notes issued by creditworthy companies at a discount to the face value of the note determined by the issuer's creditworthiness.

The evaluation and approval process differs depending on whether the loan is a corporate loan, a general household consumer loan, or a mortgage or home equity loan, and there is a separate process for credit card applications. For example, Woori Bank has in recent years implemented a standardized "expected loss" and "unexpected loss" credit risk system which we believe enables us to better allocate risk capital by evaluating "unexpected loss" (a measurement of credit risk), "VaR" (a measurement of market risk) and "earnings at risk" (a measurement of whether our assets and liabilities are mismatched).

Woori Bank has also undertaken a number of initiatives to develop credit evaluation and loan approval procedures that are more systematic and efficient. We prefer to use credit rating systems in our credit evaluation and loan approval process because they:

- yield a uniform result regardless of the user;
- can be used effectively by employees who do not have extensive experience in credit evaluation;
- can be updated to reflect changing market conditions by changing how factors are weighted;
- significantly limit the scope of employee discretion in the loan assessment and approval process; and
- improve loan processing times while generally resulting in declines in delinquencies among new borrowers.

Woori Bank operates a Credit Wizard credit evaluation system for corporate loans (including small- and medium-sized enterprise loans) and a consumer credit evaluation system for consumer loans.

Customers apply for loans by submitting a loan application through one of Woori Bank's branches. These applications are initially reviewed using the appropriate credit evaluation system and, in the case of applications for a small amount or involving applicants with little or no credit risk, are approved by the branch manager or a relationship manager acting in concert with a credit officer based on the credit risk rating they receive under that system. Applications for larger loans and loans which are determined to involve greater credit risk are approved by bodies with greater authority, depending on where those loans fall in a matrix of size, collateral and credit risk. These loan applications will be referred to a credit officer committee at an office located near the customer, which may or may not be at Woori Bank's headquarters. Every credit officer committee is made up of credit officers from headquarters and has the same level of authority. Applications that cannot be approved by a credit officer committee are referred to a senior credit officer committee or the Loan Committee of Woori Bank,

depending on loan size, collateral and credit risk. The following table sets forth the various Woori Bank committees and personnel involved in its credit evaluation and loan approval process:

Committee	Members	Approval Process		
Headquarters Approval				
Loan Committee	Head of the credit support group, head of the risk management group, head of the investment banking business group, head of the corporate banking business group, head of the financial market business group, head of the large corporate credit analysis and approval department and head of SME credit analysis and approval department	2/3 required for approval; 2/3 required to participate		
Headquarters/Regional Approval	_			
Senior Credit Officer Committee	One head senior credit officer and four to six other senior credit officers (five to seven persons)	2/3 required for approval; 2/3 required to participate		
Credit Officer Committee	At least one senior credit officer and two other credit officers (at least three persons)	2/3 required for approval; 2/3 required to participate		
Individual Approval				
Loan Officer	Individual	Approval of the individual		
Branch Manager	Individual	Approval of the individual		
Head of Team	Individual	Approval of the individual		

Different individuals or committees review and approve loan applications depending on various factors, including:

- the size and type of the loan;
- the level of credit risk established by the credit rating system;
- · whether the loan is secured by collateral; and
- if the loan is secured, an assessment of the collateral.

Loan applications are generally reviewed only by the highest-level committee required to approve the loan, although multiple reviews, including separate reviews at the branch, regional and headquarters level, may occur depending on the size and terms of any particular loan or a borrower's credit risk.

## Corporate Loan Approval Process

Woori Bank's branches review corporate loan applications using a credit evaluation system for corporate borrowers. Each corporate credit evaluation system measures various quantitative and qualitative factors. The model used by the credit evaluation system to review an application depends, however, on certain characteristics of the potential borrower. Woori Bank's credit risk management unit, together with its large corporate loan department and small- and medium-sized enterprise loan department, has developed separate credit evaluation models for large corporate borrowers that are subject to external audit under the Act on External Audit of Stock Companies, large corporate borrowers that are not subject to external audit, medium-sized enterprises and SOHO borrowers that either have outstanding loans, or are applying for a loan, in excess of \(\forall 1\) billion. In general, each model uses scores from both a computerized evaluation of quantitative financial factors, such as cash flow, income and other representative financial information, and more qualitative factors which are scored using

judgments by the credit officer or officers reviewing the application to produce an overall credit risk rating. These credit evaluation systems provide Woori Bank with tools to make consistent credit decisions and assist it in making risk-based pricing decisions. Woori Bank's Credit Wizard system, depending on whether the borrower is audited by independent auditors and its size, produces two separate scores based on one of five principal rating models: one for quantitative current financial factors, which is weighted 60 to 70% in determining the Credit Wizard credit risk rating, and another for the more qualitative factors that the judgment of credit officers plays a significant part in determining, which is weighted 30 to 40%. The Credit Wizard credit risk rating estimates the probability that Woori Bank will recover extended credits and the likelihood that borrowers will default. Qualitative factors included in the Credit Wizard system include:

- · its industry situation;
- a customer's future financial condition;
- its competitive position in the industry;
- · the quality of its management; and
- its operations.

Other indirect factors included in the credit risk rating include:

- · its technological merits;
- the nature and the location of any collateral; and
- Woori Bank's level of priority in that collateral to estimate non-recovery risks.

These qualitative factors are input into the Credit Wizard system by the credit officer, and are rated based on his or her historical experience and that of the bank.

The Credit Wizard system produces separate credit risk ratings for each borrower. Woori Bank's credit analysis and approval center evaluates and approves corporate loan applications based on these credit risk ratings. The Credit Wizard system assigns each borrower and facility one of the following 14 credit risk rating grades from AAA to D, which are classified as follows: AAA (extremely strong), AA (very strong), A+ (strong), A– (good), BBB+ (more adequate), BBB (adequate), BBB– (less adequate), BB+ (less susceptible), BB (susceptible), BB– (more susceptible), B+ (slightly weak), B– (weak), C (very weak) and D (default). Certain loans are subject to review by the Loan Committee depending on the size of the loan and the determined credit risk rating. Examples of this include loan applications for secured loans in excess of \(\forall 80\) billion for a borrower or facility with a credit risk rating of A- and above, and, at the other extreme for unsecured loans, loan applications in excess of \(\forall 40\) billion for a borrower or facility with a credit risk rating of BB– to C. Applications from borrowers with loans on a watch list (see "—Credit Review and Monitoring" below) are also closely monitored.

Woori Bank has adopted a separate and simpler credit evaluation system for SOHOs (such as pharmacies, clinics and restaurants) that either have outstanding loans, or are applying for a loan, of \(\foathbf{W}\)1 billion or less. The system uses simpler credit evaluation models and resembles Woori Bank's application scoring system for new retail customers. It assigns a credit grade ranging from one to ten to each application based on its evaluation of various factors. Applications are classified as "automatically approved," "automatically rejected" or "subject to further evaluation," which is the same as the consumer loan approval process, based on a combination of the internal credit scoring system and the external credit score. For existing borrowings (such as roll-overs of outstanding amounts), such SOHO credit evaluation system is supplemented with a behavioral scoring system. The behavioral scoring system enhances the SOHO credit evaluation system by enabling the consideration of factors such as the customer's spending history and credit behavior.

With respect to the evaluation of any collateral to which a commercial loan application relates (which principally consists of land, buildings and equipment), the fair value of such underlying collateral for commercial loans is appraised by external valuation experts and such appraisals are collated in Woori Bank's Credit Wizard

system. Woori Bank uses its Credit Wizard system to manage its lending activities, and inputs data gathered from loan application forms, credit scores of borrowers and the appraisal value of collateral provided by external valuation experts into the Credit Wizard system and updates such information periodically to reflect changes in such information (such as any changes in credit scores of borrowers or the appraisal value of collateral). In addition, to validate the appropriateness of the appraisal values provided by such external valuation experts, Woori Bank reviews the qualification of the external valuation experts (including a review of whether such experts are legitimately registered with the Korea Association of Property Appraisers) and evaluates the assumptions and valuation model used by such experts as well as the appropriateness of variables by reference to market data and comparisons to actual transaction prices in similar regions.

We have set credit limits for our corporate customers. Some of these limits, particularly those imposed by Korean banking regulations, are aimed at preventing loan concentrations relating to any single customer. See "Item 4.B. Business Overview—Supervision and Regulation—Principal Regulations Applicable to Banks—Financial Exposure to Any Individual Customer or Major Shareholder." In certain cases, we have introduced and implemented internally-developed large exposure limits that are stricter than the applicable Financial Services Commission requirements.

In evaluating applications, credit officers or the Loan Committee will often, in addition to reviewing ratings from these credit evaluation models, also refer to corporate information gathered or ratings assigned by external credit rating agencies, including NICE Investors Service, Korea Investors Service and Korea Ratings, among others. They review the information we obtain from these sources and compare it to the information we have developed internally with respect to our customers to improve the accuracy of our internal credit ratings.

## Consumer Loan Approval Process

The consumer loan department of Woori Bank evaluates and approves consumer loan applications using a dedicated consumer credit evaluation system. Woori Bank's consumer credit evaluation system assigns a credit score to each application based on its evaluation of various factors. These factors include any loan and guarantee limits Woori Bank has set for particular borrowers or groups of borrowers and our evaluation of their cash flows and credit profiles. The system gives each customer's loan application a grade ranging from one to ten. Woori Bank also uses another score based on the external ratings provided by the Korea Credit Bureau and NICE Information Service Inc. Applications are classified as "automatically approved," "automatically rejected" and "subject to further evaluation" based on a combination of the scores of these two systems. Woori Bank uses these systems to evaluate all new consumer loan applications, except for:

- loans fully secured by deposits with Woori Bank;
- · collective mortgage loans; and
- National Housing and Urban Fund mortgage loans.

Woori Bank augments its consumer credit evaluation system with a behavioral scoring system. The behavioral scoring system enhances the consumer credit evaluation system by enabling the consideration of factors such as the customer's spending history and credit behavior. By the nature of the information it analyzes, however, the behavioral scoring system can only be used for applications of persons who are existing borrowers, generally consisting of roll-overs of outstanding amounts.

We also evaluate any collateral to which a consumer loan application relates (which principally consists of residential properties) using the fair value of the underlying collateral appraised by KB Land, the Korea Real Estate Board or external appraisal experts as part of our loan approval process. Such appraisals are collated in the Credit Wizard system used by Woori Bank, and such information is updated periodically to reflect changes (such as any changes in credit scores of borrowers or the appraisal value of collateral). For example, Woori Bank automatically obtains re-evaluations for the underlying collateral for secured consumer loans and mortgages every month with respect to apartments. If the value of the collateral declines, we may have the ability to require that the borrower provide more collateral or to change the payment terms of the relevant loan.

## Credit Card Approval Process

We have worked to ensure that risk management and credit extension policies with respect to our credit card operations through our direct subsidiary, Woori Card, reflect our group-wide risk management policies and guidelines.

Woori Card reviews each new card application for completeness, accuracy and creditworthiness. It bases this review on various factors that assess the applicant's ability to repay borrowed amounts. The review process involves three stages:

- Initial Application Process. Woori Card verifies basic information by requesting certain documents from the applicant, generally contacts the applicant directly (usually by telephone, although there are personal visits to some applicants) and statistically analyzes the applicant's personal credit history together with financial and default information gathered from third-party sources and its internal database. The analysis considers various factors including employment, default status and historical relationships with Woori Bank and any delinquency history with other credit card companies. Woori Card also reviews information about an applicant obtained from external databases maintained by the Korea Federation of Banks and Nice Information Service Inc.
- Application Scoring System Process. The application scoring system at Woori Card is a standardized
  evaluation tool used to determine the probability of a credit card applicant defaulting during the
  one-year period following issuance. The application scoring system, using a statistical model, assigns
  risks to factors that indicate a probability of non-payment. The model analyzes credit history, occupation
  and income data to develop a combined risk score. The applicant's eligibility to receive a credit card and
  credit limit is determined by its anticipated delinquency ratio over 90 days within one year.
- *Credit Assessment.* If the application is approved, then the application scoring system assessment is used to determine the applicant's credit limit. The aggregate credit limit for a new applicant who is an individual rarely exceeds \(\foldaggregate{W}\)20 million. There is a separate but similar system for determining the credit limit available to corporate card applicants, which will generally be higher than limits available to individual applicants but will not provide for the ability to obtain cash advances.

The entire approval process generally takes two to three days and the applicant receives the new card within one week after making an application. Woori Card evaluates and updates the application scoring system on a monthly basis (or more frequently as required) to incorporate new data or adjust the importance placed on existing data or market conditions.

#### Credit Review and Monitoring

Our credit review and monitoring procedures are designed to reduce the risks of deterioration in our asset quality and to maintain acceptable levels of portfolio risk. These procedures include:

- confirming a borrower's credit rating or score;
- ensuring the accuracy of the credit analysis done by our credit officers; and
- ensuring compliance with internal policies relating to loan approval.

We believe that these procedures enable us to identify potential non-performing loans as soon as possible and minimize the possibility of approving in advance loans that will become non-performing. These procedures also enable us to manage credit risk more effectively and set interest rates to more accurately reach our targeted level of return.

#### Loan Review and Monitoring

Woori Bank monitors credit risk with respect to its borrowers using its loan review system. Woori Bank has a loan review unit that oversees its review and monitoring efforts. After a loan has been approved, the relevant

materials or the results generated by Woori Bank's credit evaluation system, together with any supporting data, are reviewed by an officer in that unit. There are three types of reviews that Woori Bank's loan review unit undertakes:

- Desk review. Desk reviews are the most common and are generally done within five days after a loan has been approved. Although the process is similar, different loans are automatically reviewed by Woori Bank based on the size of the loan. The loan review unit will initiate a desk review of loans approved by a credit officer committee or the Loan Committee, for any corporate loan over \(\pms\)5 billion, any consumer loan over \(\pms\)1 billion, any loan to a housing applicant group over \(\pms\)5 billion or any loan where the loan terms were adjusted. For loans originating from a branch, the loan review unit will randomly initiate a desk review for new domestic loans. For overseas loans, desk reviews are conducted for new loans (including credit limit increases) over US\\$300,000. Ex post desk reviews are also conducted on consumer and corporate loans approved by a domestic branch manager for borrowers with aggregate unsecured loans over \(\pms\)50 million or aggregate secured loans over \(\pms\)300 million, and new consumer and corporate loans (including credit limit increases) over US\\$30,000 approved by overseas branch managers.
- Periodic review. Periodic reviews are done on a quarterly, semi-annual or annual basis with respect to loans that are current and over \(\forall 10\) billion or with respect to borrowers who are on a "watch list" with respect to possible insolvency. Quarterly periodic reviews are done for certain corporate borrowers, depending on their size and the borrower's industry.
- Ad hoc review. Ad hoc reviews can be done at any time. The head of Woori Bank's Risk Management
  Department or the chief executive officer or chief financial officer of Woori Bank can initiate ad hoc
  reviews. Loan review officers who are responsible for desk and periodic reviews also conduct ad hoc
  reviews.

Following a review, Woori Bank's sales office may hold additional meetings with the borrower and adjust the loan amount or the borrower's credit rating. The loan review unit may also direct sales office personnel to institute early collections or to adjust a borrower's credit rating, total exposure and asset portfolio without consulting the borrower. The loan review officer may request that the credit officer adjust a borrower's credit ratings based on various factors, including asset quality, credit limits, applied interest rates and our credit policies. We also continually review other factors, such as industries in which borrowers operate and their domestic and overseas assets and operations, to ensure that our ratings are appropriate.

Woori Bank monitors and manages its exposures to and credit limits for corporations and *chaebols* on a daily basis. Woori Bank uses its Total Exposure Management System to make real-time inquiries regarding its exposures, either by company or by *chaebol*, and to manage the credit limits for all kinds of business transactions. Woori Bank monitors and analyzes these exposures on a monthly basis. Corporate borrowers on Woori Bank's "watch list" are monitored more closely and with respect to additional aspects of their relationships with us. Woori Bank places borrowers on its watch list when it believes that any impediment on a borrower's ability to meet its financial obligations exists or is pending. Woori Bank may also monitor newly extended credits or any additional credits extended to a previous borrower more frequently if it believes additional monitoring is necessary after reviewing the loan approval process. Credits outstanding to a particular industry or region that Woori Bank believes are higher risk are monitored even more frequently. Based on the results of such monitoring, the loan review unit of Woori Bank provides monthly reports to its chief executive officer and its Risk Management Committee.

Woori Bank has the ability to conduct daily surveillance on the status of its retail borrowers through an online system established by the Korea Federation of Banks. This system, which tracks consumer loans at all major Korean banks and non-banking institutions, permits us to track all loan defaults by any borrower. Woori Bank evaluates the need to monitor consumer loans by using its consumer credit evaluation system, including its behavioral scoring system, and makes adjustments to the credit scoring formula based on the results of that process.

Woori Bank's loan review unit in its Risk Management Department is required to submit monthly loan review reports and quarterly deficiency reports to the chief executive officer and the head of the Risk Management Department of Woori Bank. The chief executive officer then provides feedback to the relevant sales offices of Woori Bank's branches through its auditing team or relevant business group. Based on these reports, we may, for example, stop lending to particular borrowers, change credit limits or modify our loan approval procedures. We do not monitor loans to certain borrowers, such as loans to government entities.

### Credit Card Review and Monitoring

Woori Card monitors its risk exposure to individual accounts on a regular basis. It monitors each customer's card usage trends and negative credit data such as delinquency information through both its own credit risk management system (which was developed with the assistance of an outside consultant) and BC Card's similar system (which BC Card maintains for its member institutions). These systems monitor the behavior of users of Woori Card's credit cards, using both internally generated information and information from external sources. Woori Card statistically analyzes this information to estimate each customer's creditworthiness on a monthly basis. The credit risk management system is an integral part of the credit practices at Woori Card and is used to determine increases or decreases in credit limits, reset interest rates, set fee levels, authorize special transactions and approve card loans using criteria such as:

- how much credit each customer has incurred in the past (i.e., frequency and amount of payments);
- whether a customer uses his card to make credit card purchases or to get cash advances;
- · internal credit scores; and
- whether the customer has been delinquent in making payments.

After assigning appropriate weightings to each factor, the system computes a behavior score and uses that score to classify each cardholder. Each customer's credit limit is subject to adjustment in accordance with the monthly updated score. Woori Card uses these results and the results of its application scoring system to evaluate its credit risk management system and make adjustments to its credit scoring formula based on the results of that process.

Woori Card's credit risk management system has also been able to run various simulations in connection with monitoring its operations, including:

- new product simulations, which predict a customer's likely spending pattern when using a new credit
  card product and analyzes that pattern to predict the new product's costs, delinquencies and profitability;
  and
- *credit use limit simulations*, which test whether a customer's credit limit has been properly set by simulating an increase or decrease of that limit.

Woori Card's credit administration team manages customer credit risk for users of its credit cards. It reviews and updates its underwriting, credit evaluation, collection, servicing and write-off procedures, and the terms and conditions of card agreements, from time to time in accordance with its business practices, applicable law and guidelines issued by regulatory authorities.

#### Early Warning Systems

Woori Bank and Woori Card have developed separate early warning systems that monitor the status of both commercial and retail borrowers and evaluate all of a customer's outstanding credits. These systems monitor various factors, including the financial status, financial transaction status, industry rating and management status of borrowers. They enable our subsidiaries to find defaults and signs of potential delinquency in advance, monitor these problematic credits properly before any default or delayed payment occurs and keep track of

information on the credit status of borrowers. Updated information is input as it becomes available, either automatically from internal and external sources or manually. This information includes data relating to:

- credit evaluation and monitoring system results, which determine if a borrower should be put on a watch list;
- loan transactions, such as a borrower's remaining line of credit and whether it has any dishonored notes, overdue loans or setoffs with respect to collateral deposits which have not matured;
- deposit transactions, such as any decrease in a borrower's average deposit balance, requests for large volumes
  of promissory notes or checks, or the inability to pay immediately available funds owed when due;
- foreign exchange transactions, such as unpaid amounts of a borrower's purchased export bills that have exceeded the maturity date; and
- other information, such as a borrower's management and employees, business operations, production operations, financial affairs and accounting operations and bank transactions.

We also monitor borrowers' credits through online credit reports that are provided by Korea Information Service and National Information & Credit Evaluation, Inc., which are Korean credit reporting agencies.

After gathering this information, for example at Woori Bank, the early warning system reviews such information to monitor any changes that could affect the credit rating of the borrower, approval conditions with respect to the loan or credit, underlying collateral or assigned credit limit of the borrower. Depending on the likelihood of the change, the system automatically sends a signal to the responsible credit officer. The officer then evaluates the information and formulates an action plan, which could result in an adjustment in the borrower's credit rating or loan pricing, a re-evaluation of the loan or the taking of other preventative measures.

#### Credit Remediation

We believe that by centralizing the management of our non-performing credits within each subsidiary, we can implement uniform policies for non-performing credit resolution, pool institutional knowledge and create a more specialized (and therefore more efficient) work force. To the extent relevant to its business, each of our subsidiaries has one or more units that are responsible for managing non-performing loans. At Woori Bank, for example, the Credit Management and Collection Department and the Corporate Restoration Department generally oversee the process for resolving non-performing loans transferred to them by Woori Bank's other business groups. When a loan becomes non-performing, the Credit Management and Collection Department and the Corporate Restoration Department will begin a due diligence review of the borrower's financial condition, send a notice demanding payment or stating that the group will take legal action, and prepare for legal action. At the same time, Woori Bank initiates its non-performing loan management process. Once Woori Bank has confirmed the details of a non-performing loan, it makes efforts to recover amounts owed to it. Methods for resolving non-performing loans include commencing collection proceedings or legal actions and writing off such loans, transferring them to affiliates in charge of collection and authorizing those subsidiaries to recover what they can. We have also disposed of a number of non-performing credits to UAMCO and various structured companies. See "Item 4.B. Business Overview—Assets and Liabilities—Asset Quality of Loans— Non-Performing Loan Strategy."

#### **Market Risk Management**

The principal market risks to which we are exposed are interest rate risk, foreign exchange risk and, to a lesser extent, equity risk and commodity risk. We divide market risk into risks arising from trading activities and risks relating to management of our assets and liabilities.

Our Board Risk Management Committee establishes risk capital allocation for our trading activities. Our Group Risk Management Department and our Subsidiary Risk Management Departments, in turn, manage more specific risk limits and loss limits and regularly report the results to our Board Risk Management Committee and the relevant Subsidiary Risk Management Committees. We use the standardized method and the internal model method to measure and analyze the market risk from our trading activities.

## Market Risk Management for Trading Activities

We measure market risk from trading activities to monitor and control the risk of our business groups and teams that perform those activities. Our trading activities consist of:

- trading activities for our own account to realize short-term trading profits in debt (primarily Won-denominated), equity and foreign exchange markets based on our forecasts of changes in market situation and customer demand; and
- trading activities involving derivatives transactions, including interest rate and foreign exchange swaps, forwards, futures and options and, to a lesser extent, commodity derivatives, primarily to sell derivatives products to our customers and to hedge our own market risk.

Market risk arising from our trading activities can be subdivided into interest rate risk, foreign exchange risk and equity risk:

- Interest rate risk is a significant risk to which our trading activities are exposed. This risk arises primarily from our debt securities (which are primarily held by Woori Bank). We set different risk limits for our interest rate risk for our trading and non-trading debt portfolios.
- Foreign exchange risk arises from foreign currency-denominated assets and liabilities in both our trading and non-trading accounts and financial derivatives involving foreign currencies, which are not controlled separately on a trading and asset/liability management basis.
- Equity risk arises from price and volatility fluctuations in equity securities and derivatives.

The following table shows the volume and types of Woori Bank's trading positions (including trust accounts) subject to market risk as of the dates indicated:

	As of December 31,		
	2021 2022		
	(in million	ns of Won)	
Debt securities	₩ 1,492,053	₩ 2,975,992	
Equity securities	23,270	30,443	
Spot exchanges <sup>(1)</sup>	1,635,226	1,763,291	
Derivatives <sup>(2)</sup>	10,440,258	18,951,560	
Total	₩13,590,806	₩23,721,286	

<sup>(1)</sup> Represents the overall net open currency position in each currency, which is the greater of (i) the sum of the absolute values of all short positions and (ii) the sum of the absolute values of all long positions.

The Board Risk Management Committee monitors market risk both for the group and for each relevant subsidiary individually. See "—Overview." The Board Risk Management Committee has established a maximum "risk appetite" for each relevant subsidiary, which is defined as the risk capital of such subsidiary divided by its available capital. "Risk capital" is a benchmark figure that determines the market risk limits, accumulated loss limits (for trading portfolios) and present value of a basis point (or PVBP) limits (for non-trading debt securities) for each subsidiary. Available capital generally consists of shareholder's equity. Using this benchmark, as of December 31, 2022, we have established market risk limits with respect to Woori Bank as shown in the following table:

	Non-Trading Portfolio									
	Accumulate									
VaR Limit	VaR Limit Quarter Annual									
(in billions of Won)										
₩ 19.4	₩ 120.8	₩ 241.6	₩ 10.5							

<sup>(2)</sup> For over-the-counter derivatives, represents the absolute value of over-the-counter derivatives measured at fair value at the end of the relevant year. For exchange-traded derivatives, includes the amount of deposits and the collateral posted for such derivatives.

Each of our relevant subsidiaries generally manages its market risk at the portfolio level. To control its exposure, each such subsidiary takes into consideration the market risk limits, accumulated loss limits and PVBP limits set by the Board Risk Management Committee in determining its internal allocation of risk among its various portfolios. Each relevant subsidiary also sets its own stop loss limits with respect to particular types of transactions. Woori Bank uses an integrated market risk management system to manage market risks for trading operations, which enables Woori Bank to generate consistent VaR numbers for all of its trading activities.

In addition, Woori Bank has implemented internal processes which include a number of key controls designed to ensure that fair value is measured appropriately, particularly where a fair value model is internally developed and used to price a significant product. See "Item 5.A. Operating Results—Critical Accounting Policies—Valuation of Financial Assets and Liabilities" and Notes 2-(9)-5), 3-(3) and 11 of the notes to our consolidated financial statements. Woori Bank's Risk Management Department reviews the existing pricing and valuation models on a regular basis, with a focus on their underlying modeling assumptions and restrictions, to assess the appropriateness of their continued use. In consultation with its Trading Department, Woori Bank's Risk Management Department recommends potential valuation models to its Fair Value Evaluation Committee. Upon approval by Woori Bank's Fair Value Evaluation Committee, the selected valuation models are reported to its Risk Management Committee.

Value at Risk analysis. Woori Bank uses daily VaR to measure market risk. Daily VaR is a statistically estimated maximum amount of loss that can occur for a day. Woori Bank uses a 99% confidence level to measure its daily VaR, which means the actual amount of loss may exceed the VaR, on average, once out of 100 business days. Woori Bank uses the "historical simulation method" which takes into account the diversification effects among different risk factors.

Although VaR is a commonly used market risk management technique, it has some inadequacies. Since it is a statistical approach, VaR estimates possible losses over a certain period at a particular confidence level using past market movement data. Past market movements, however, are not necessarily a good indicator of future events. Another problem with VaR is that the time periods used for the model, generally one or 10 days, are assumed to be a sufficient holding period before liquidating the relevant underlying positions. If these holding periods are not sufficient, or too long, VaR may understate or overstate the potential loss. VaR is most appropriate as a risk measure for trading positions in liquid financial markets and will understate the risk associated with severe events, such as a period of extreme liquidity.

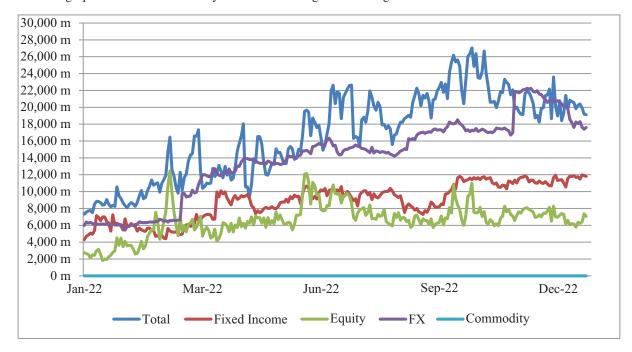
The following table shows Woori Bank's daily VaR as of the dates indicated at a 99% confidence level for a one-day holding period, for interest rate risk, equity risk, foreign exchange risk and commodity risk relating to its trading activities.

		Foreign				VaR for Overall
	Interest Rate Risk	Exchange Risk	Equity Risk	Commodity Risk	Less: Diversification	Trading Activities
			(ir	millions of W	on)	
As of December 31, 2021	4,177	5,904	2,972	_	6,072	6,981
As of December 31, 2022	11,800	17,608	7,055	_	17,354	19,109

In 2020, 2021 and 2022, the average, high, low and ending amounts of Woori Bank's daily VaR relating to its trading activities (at a 99% confidence level for a one-day holding period) were as follows:

	As of December 31.					For the year ended December 31, 2021		As of December 31.	For the year ended December 31, 2022			
	2020	Average	Maximum	Minimum	2021	Average	Maximum	Minimum	2022	Average	Maximum	Minimum
Interest risk	₩ 6,815	<b>₩</b> 7,959	₩ 15,065	₩ 2,427	₩ 4,177	₩ 4,681	₩ 14,017	₩ 2,405	₩ 11,800	₩ 8,847	₩ 11,987	₩ 4,298
Foreign exchange												
risk	11,160	8,814	11,233	4,613	5,904	6,745	13,144	4,747	17,608	14,002	22,251	5,421
Equity risk	2,283	5,783	14,394	1,982	2,972	3,637	6,676	1,609	7,055	6,590	12,448	1,806
Commodity												
risk	_	_	_	_	_	_	_	_	_	_	_	_
Diversification	(11,087)	(11,175)	(18,796)	(3,452)	(6,072)	(7,300)	(20,007)	(3,628)	(17,354)	(12,725)	(19,640)	(4,201)
Total risk	₩ 9,171	₩ 11,381	₩ 21,896	₩ 5,570	₩ 6,981	₩ 7,763	₩ 13,831	₩ 5,134	₩ 19,109	₩ 16,714	₩ 27,046	₩ 7,324

The graph of Woori Bank's daily 99% VaR relating to its trading activities in 2022 is as follows:



Standardized Method. The standardized method is used to measure the market risk of the positions for which the Financial Supervisory Service has not approved the use of the VaR method. The following table shows Woori Bank's market risk capital charges measured using the standardized method as of the dates indicated:

	As of December 31,		
	2021	2022	
	(in million	ns of Won)	
Risk categories			
Interest risk	₩20,511	₩ 4,021	
Equity risk	8,569	6,896	
Foreign exchanges risk	50,899	66,497	
Commodity risk	_	_	
Total	₩79,979	₩77,414	

*Back-testing.* Woori Bank conducts back testing on a daily basis to validate the adequacy of its market risk management. Back testing compares both the actual and hypothetical profit and loss with VaR calculations and analyzes any results that fall outside a predetermined confidence interval of 99%. The number of times the actual changes in Woori Bank's profit and loss exceeded the VaR amounts in 2020, 2021 and 2022 was 3.

Stress test. In addition to VaR, Woori Bank performs stress testing to measure market risk. As VaR assumes normal market situations, Woori Bank assesses its market risk exposure to abnormal market fluctuations through stress testing. Stress testing is an important way of supporting VaR since VaR is a statistical expression of possible loss under a given confidence level and holding period. It does not cover potential loss if the market moves in a manner that is outside normal expectations. Stress testing projects the anticipated change in value of holding positions under certain scenarios assuming that no action is taken during a stress event to change the risk profile of a portfolio. The following table shows, for Woori Bank, the loss that would have occurred in its trading portfolio as of December 31, 2022 for assumed short-term extreme changes of a +/-20% change in the equity market and a +/-60 basis point change from interest rates prevailing in the market on that date, under an abnormal stress environment.

## (in billions of Won, except percentages)

Equity Market Chart Market fluctuation amount	(20)%	(10)%	(5)%	5%	10%	20%
amount	(20)70	(10)70	(3)70		10%	2070
	<b>₩</b> (145)	₩(92.5)	₩(37.6)	₩5.0	₩(8.1)	₩(9.1)
Interest Rate Chart Basis point fluctuation amount	(60) basis points	(in billio (40) basis points	ns of Won, exc (20) basis points	ept basis poi 20 basis points	ints) 40 basis points	60 basis Points
	₩22.5	₩15.0	₩7.5	₩(7.4)	₩(14.9)	₩(22.3)

#### Interest Rate Risk

Interest rate risk from trading activities arises mainly from our trading of Won-denominated debt securities. Our general trading strategy is to benefit from short-term movements in the prices of debt securities arising from changes in interest rates. As Woori Bank's trading accounts are marked-to-market daily, Woori Bank manages its interest rate risk related to trading accounts using market value-based tools such as VaR. See "—Asset and Liability Management—Interest Rate Risk."

### Foreign Exchange Risk

Foreign exchange risk arises because we have assets, liabilities and off-balance sheet items such as foreign exchange forwards and currency swaps that are denominated in non-Won currencies. The difference between each of our relevant subsidiaries' foreign currency assets and liabilities is offset against forward foreign exchange positions to obtain its net foreign currency open position. Woori Bank determines its maximum foreign exchange exposure for both trading and asset and liability management purposes by establishing a limit for this net foreign currency open position. Woori Bank's Risk Management Committee also establishes VaR limits for its foreign exchange business.

Assets and liabilities denominated in U.S. dollars account for the majority of our foreign currency assets and liabilities. Those denominated in Japanese yen and the euro account for most of the remainder, the majority of which have been swapped into U.S. dollars.

Each of our relevant subsidiaries monitors changes in, and matches of, foreign-currency assets and liabilities in order to reduce exposure to currency fluctuations. Most of our foreign exchange risk arises in connection with the operations of Woori Bank. Our relevant subsidiaries also manage risks relating to exchange rate fluctuations through foreign exchange dealing, including by their overseas branches. However, we conduct foreign exchange dealings primarily on behalf of our customers. Our counterparties are generally domestic and foreign financial institutions and banks. The following table sets forth information concerning Woori Bank's limits on proprietary foreign exchange dealings as of December 31, 2022:

	Won/U.S. Dollar Dealing			Dealings in o	ther currencies		
	Headqu	arters	Headq	<sub>l</sub> uarters	Overseas Branches		
	Total Individual		Total	Individual	Total	Individual	
			(in millions of US\$)				
Open position							
Daily maximum limit	US\$1,000	US\$200	US\$200	US\$ 50	US\$ 60	US\$ 15	
Daily closing limit	200	50	100	20	30	6	
Stop loss:							
Daily	2	0.5	0.8	0.15	0.24	0.045	
Monthly	3	0.8	2	0.5	0.6	0.15	

The following table shows the non-consolidated net open positions of Woori Bank as of the dates indicated. Positive amounts represent long exposures and negative amounts represent short exposures.

	As of December 31,		
	2021	2022	
	(in millio	ns of US\$)	
Currency			
U.S. dollar	US\$ (57.0)	US\$1,315.7	
Japanese yen	(60.7)	(43.2)	
Euro	(623.2)	(433.5)	
Others	254.0	254.9	
Total	<u>US\$(487.0)</u>	US\$1,093.9	

#### Equity Risk

Equity price risk and equity volatility risk arise primarily from Woori Bank's equity portfolio, which consists mainly of futures contracts and options and Won-denominated equity securities, as a result our imposition of strict VaR limits, accumulated loss limits and stress test limits. Equity risk arises in the context of trading activities for our own accounts to realize short-term trading profits with respect to equity securities and trading activities involving certain derivatives transactions.

## Derivatives-Related Market Risk

The Foreign Exchange Transaction Regulations of Korea provide that a foreign exchange bank (such as Woori Bank) may generally enter into derivatives transactions without restriction so long as those transactions are not linked with credit risks of a party to the transaction or any third party. If they are, the bank must report the transaction to the Bank of Korea.

Most of the derivatives products that our subsidiaries trade are on behalf of their customers or to hedge their own positions. Our derivatives activities include interest rate and cross-currency swaps, foreign exchange forwards, stock index and interest rate futures, forward rate agreements and currency and over-the-counter equity options.

## Asset and Liability Management

Our principal market risk with respect to managing our assets and liabilities is interest rate risk. Interest rate risk arises due to mismatches in the maturities or re-pricing periods of rate-sensitive assets and liabilities, such as loans and deposits. Any imbalance of the maturity of our interest rate-sensitive assets and liabilities and the gap resulting from that imbalance may cause net interest income to be affected by changes in the prevailing level of interest rates. Our principal asset and liability management objectives are to generate stable net interest revenues and protect our asset value against interest rate fluctuations.

Woori Bank uses a standardized asset and liability management system for its Won- and foreign currency-denominated assets and liabilities. In addition, Woori Bank's system also allows it to manage the assets and liabilities in its trust accounts. Its system uses the historical scenario method to determine interest rate  $\Delta EVE$  (change in economic value of equity), supplemented by modules to calculate and monitor our liquidity coverage ratio and net stable funding ratio.

## Interest Rate Risk

We manage interest rate risk based on rational interest rate forecasts, using gap analysis to measure the difference between interest-sensitive assets and interest-sensitive liabilities, and using simulations to calculate the effect of changing interest rates on income. We principally manage this risk by managing maturity and duration gaps between our interest-earning assets and interest-bearing liabilities.

We measure interest rate risk for Won and foreign currency assets and liabilities, including derivatives and principal guaranteed trust accounts. Most of our interest-earning assets and interest-bearing liabilities are denominated in Won and our foreign currency-denominated assets and liabilities are mostly denominated in U.S. dollars. We believe, however, that our interest rate sensitivity is limited with respect to our Won-denominated assets. Deposits in Won generally bear fixed rates of interest for fixed time periods (other than deposits payable on demand which constituted approximately 43.9% of our total deposits in Won as of December 31, 2022). We generally adjust the interest rates on these deposits when they are rolled over. In addition, as of December 31, 2022, 96.7% of those deposits had current maturities of one year or less. As of December 31, 2022, approximately 74.0% of our Won-denominated loans bore floating rates of interest, and 70.2% of those loans had current maturities of one year or less.

Interest rate gap analysis measures expected changes in net interest revenues by calculating the difference in the amounts of interest-earning assets and interest-bearing liabilities at each maturity and interest resetting date. Woori Bank performs interest rate gap analysis for Won and foreign currency-denominated assets on a monthly basis

*Interest Rate Gap Analysis.* For interest rate gap analysis we use or assume the following maturities for different assets and liabilities:

- With respect to maturities of assets, for prime rate-linked loans, we apply the actual maturities of each
  loan; furthermore, we assume the reserves with the Bank of Korea and loans and securities classified as
  substandard or below to have maximum remaining maturities.
- With respect to maturities of liabilities, for demand deposits with no fixed maturities, a portion of the
  demand deposits are recognized to have maturities of less than three months as calculated in accordance
  with Financial Services Commission guidelines.

Our Board Risk Management Committee's interest rate risk limit for Woori Bank generally requires that its earnings at risk for Won-denominated accounts be within 10% of its estimated net interest income for a one-year period. We calculate  $\Delta$ EVE through our standardized asset and liability management system, which uses the historical scenario method to simulate the current portfolio's net asset value for a one-year holding period at a 99.9% confidence level.

The following tables show, for Woori Bank, on a non-consolidated basis pursuant to the guidelines of the Financial Supervisory Service, the interest rate gap for Won-denominated accounts and foreign currency-denominated accounts as of December 31, 2022:

			As of Decem	ber 31, 2022		
	0-3 Months	3-6 Months	6-12 Months	1-3 Years	Over 3 Years	Total
***		(in	billions of Won,	except percenta	iges)	
Won-denominated accounts: Interest rate-sensitive assets						
Free interest rate	₩ 17.904	₩ 14,879	₩ 11.439	₩ 19,806	₩ 4,893	₩ 68,921
Market interest rate	160,749	38,479	18,561	32,020	18,894	268,703
Interest rate pegged to	100,7 .5	20,	10,001	02,020	10,0%	200,700
customer deposit	90	71	127	40	13	341
Total	₩ 178,743	₩ 53,429	₩ 30,127	₩ 51,866	₩ 23,800	₩ 337,965
Interest rate-sensitive liabilities						
Free interest rate	₩ 32,294	,	₩ 8,240	<b>₩</b> 27,477		₩ 100,994
Market interest rate	101,080	35,251	59,959	10,117	4,325	210,732
Total	₩ 133,374	₩ 39,886	₩ 68,199	₩ 37,594	₩ 32,673	₩ 311,726
Sensitivity gap	45,369	13,543	(38,072)	14,272	(8,873)	26,239
Cumulative gap	45,369	58,912	20,840	35,112	26,239	26,239
% of total assets <sup>(1)</sup>	12.04	15.64	5.53	9.32	6.96	6.96
Total assets in						*** 256546
Won						₩ 376,746
			As of Decem	ber 31, 2022		
	0-3 Months	3-6 Months	6-12 Months	1-3 Years	Over 3 Years	Total
T		(in	millions of US\$,	except percenta	iges)	
Foreign currency-						
denominated accounts: Interest rate-sensitive assets						
Free interest rate	2211	us\$ —	us\$ —	US\$ —	US\$ —	US\$ —
Market interest rate	18,102	2,237	846	810	921	22,916
Interest rate pegged to	10,102	2,237	0.10	010	721	22,710
customer deposit	_	_	_	_	_	_
Total	US\$ 18,102	US\$ 2,237	US\$ 846	US\$ 810	US\$ 921	US\$ 22,916
Interest rate-sensitive liabilities						
Free interest rate	US\$ —	US\$ —	US\$ —	US\$ —	US\$ 13	US\$ 13
Market interest rate	15,615	2,241	1,600	2,440	1,404	23,300
Total	US\$ 15,615	US\$ 2,241	US\$ 1,600	US\$ 2,440	US\$ 1,417	US\$ 23,313
Sensitivity gap	2,487	(4)	(754)	(1,630)	(496)	(397)
Cumulative gap	2,487	2,483	1,729		(397)	(397)
% of total assets <sup>(1)</sup>	6.599	% 6.589	% 4.589	% 0.26	% (1.05)	% (1.05)%
Total assets in US\$						US\$ 37,738

 $<sup>^{(1)}</sup>$  Represents the cumulative gap as a percentage of total assets.

Duration Gap Analysis. Woori Bank also performs a duration gap analysis to measure and manage its interest rate risk. Duration gap analysis is a more long-term risk indicator than interest rate gap analysis, as interest rate gap analysis focuses only on accounting income and not on the market value of the assets and liabilities. We emphasize duration gap analysis because, in the long run, our principal concern with respect to interest rate fluctuations is the net asset value rather than net interest revenue changes.

For duration gap analysis, we use or assume the same maturities for different assets and liabilities that we use or assume for our interest rate gap analysis.

The following table shows, for Woori Bank, with respect to Won-denominated assets and liabilities, duration gaps and net asset value changes when the interest rate increases by one percentage point as of the specified dates:

Date	Interest-bearing asset duration	Interest-bearing liability duration	Total asset/liability duration gap	Net asset value change
	(in years)	(in years)	(in years)	(in billions of Won)
June 30, 2021	0.95	0.97	(0.01)	49
December 31, 2021	0.91	0.95	0.00	24
June 30, 2022	0.81	0.86	(0.05)	162
December 31, 2022	0.79	0.83	(0.02)	78

We set interest rate risk limits using the historical simulation method, which uses actual historical price, volatility and yield changes in comparison with the current position to generate hypothetical portfolios and calculate a distribution of position and portfolio market value changes. The following table shows Woori Bank's interest rate  $\Delta EVE$  with respect to its assets and liabilities for each of the quarters since the fourth quarter of 2021:

	Fourth Quarter 2021	First Quarter 2022	Second Quarter 2022	Third Quarter 2022	Fourth Quarter 2022
		(in billion	s of Won, except p	ercentages)	
Interest rate $\Delta EVE$	₩200.6	₩444.5	₩560.7	₩387.7	₩144.8

The Board Risk Management Committee reviews gap analysis reports, duration gap analysis reports and interest rate limit compliance reports prepared by the Risk Management Department on a quarterly basis.

Foreign Exchange Risk

We manage foreign exchange rate risk arising in connection with the management of our assets and liabilities together with such risks arising from our trading operations. See "—Market Risk Management for Trading Activities—Foreign Exchange Risk" above.

## Liquidity Risk Management

Liquidity risk is the risk of insolvency or loss due to disparity between inflow and outflow of funds such as maturity mismatch, including having to obtain funds at a high price or to dispose of securities at an unfavorable price due to lack of available funds. We manage our liquidity in order to meet our financial liabilities from withdrawals of deposits, redemption of matured debentures and repayments at maturity of borrowed funds. We also require sufficient liquidity to fund loans and extend other forms of credits, as well as to make investments in securities. Each of the Subsidiary Risk Management Committees establishes liquidity policies for the respective subsidiary and monitors liquidity on an on-going basis. Our relevant subsidiaries make constant adjustments to take into account variables affecting their liquidity levels. The Subsidiary Risk Management Departments review the uses and sources of funds on a daily basis, taking into consideration the various goals of their respective business groups.

Our liquidity management goal is to be able, even under adverse conditions, to meet all our liability repayments on time and fund all investment opportunities even under adverse conditions.

We maintain diverse sources of liquidity to facilitate flexibility in meeting our funding requirements. We fund our operations principally by accepting deposits from retail and corporate depositors, accessing the call loan

market (a short-term market for loans with maturities of less than one month), issuing debentures and borrowing from the Bank of Korea. We use the majority of funds raised by us to extend loans or purchase securities. Generally, deposits are of shorter average maturity than loans or investments.

In managing liquidity risk, each of our relevant subsidiaries currently determines gap limits, implements those limits and monitors maturity gaps using its asset and liability management system. We also establish gap limits for liquidity management purposes. Each relevant subsidiary has set a total limit in order to manage liquidity risk. For example, Woori Bank's three-month accumulated gap limits for banking and trust accounts are between (10)% and 10%. In the foreign currency account, the limit for a one-week gap has been set as (3)% or higher and as (10)% or higher for a one-month gap.

Liquidity is maintained by holding sufficient quantities of assets that can be liquidated to meet actual or potential demands for funds from depositors and others. Liquidity is also managed by ensuring that the excess of maturing liabilities over maturing assets in any period is kept to manageable levels relative to the amount of funds we believe we can raise when required. We seek to minimize our liquidity costs by managing our liquidity position on a daily basis and by limiting the amount of cash at any time that is not invested in interest-earning assets or securities.

The Financial Services Commission uses the liquidity coverage ratio, defined as the ratio of highly liquid assets to total net cash outflows over a 30-day period, as the principal liquidity risk management measure and currently requires Korean banks, including Woori Bank, to:

- maintain a liquidity coverage ratio of not less than 100% (temporarily reduced to 92.5% until June 2023);
- maintain a foreign currency liquidity coverage ratio of not less than 80% (temporarily reduced to 70% until June 2022 for purposes of increasing foreign currency liquidity in the Korean financial markets);
   and
- submit monthly reports with respect to the maintenance of these ratios.

In April 2020, in order to encourage financial institutions to provide financial support to companies adversely affected by COVID-19, the Financial Services Commission announced that it would temporarily lower the required liquidity coverage ratio to 85% and the required foreign currency liquidity coverage ratio to 70%. Following a series of extensions by the Financial Services Commission, the temporary deregulation measures for the foreign currency liquidity coverage ratio expired at the end of June 2022, while the temporary deregulation measures for the liquidity coverage ratio will incrementally return to normal, but the timeline for such normalization to 100% has not been finalized yet.

As of December 31, 2022, Woori Bank's 30-day liquidity coverage ratio was 104.97%, above the Financial Services Commission's standard of 92.5%.

The following table shows the liquidity status, on a cumulative basis, and limits for foreign currency accounts of Woori Bank on a non-consolidated basis as of December 31, 2022 in accordance with the Financial Services Commission's regulations:

	7 days or less	8 days –1 month	3 months or less
	(in millions of US\$, except percentages)		
Foreign currency accounts:			
Foreign currency assets	US\$ 22,144	US\$ 11,407	US\$ 15,144
Foreign currency liabilities	10,964	13,990	16,906
Maturity gap	11,180	(2,583)	(1,762)
Cumulative gap (A)	11,180	8,597	6,835
Total assets (B)	141,716	141,716	141,716
Liquidity gap ratio (A/B)	7.89%	6.07%	116.33%(1)
Limits	(3)%	6 (10)%	85%

<sup>(1)</sup> Liquidity ratio, calculated as foreign currency assets as a percentage of foreign currency liabilities.

The Subsidiary Risk Management Committees receive reports from the relevant subsidiaries regarding their respective liquidity ratios and liquidity gap ratios on a monthly basis. Based on those reports, each Subsidiary Risk Management Department reports these results to the Board Risk Management Committee on a quarterly basis.

## **Operational Risk Management**

Operational risk is difficult to quantify and subject to different definitions. We define our operational risk as the risk of loss resulting from inadequate or failed internal processes, people and systems or from external events. This definition includes legal risk, but excludes strategic and reputational risk.

To monitor and control operational risks, we maintain a system of comprehensive policies and have put in place a control framework designed to provide a stable and well-managed operational environment throughout our organization. Several bodies are responsible for managing our operational risk, including our Audit and Legal and Compliance Departments and the Subsidiary Risk Management Committees and their respective Subsidiary Risk Management Departments. For example, Woori Bank has implemented a multi-step operational risk management process consisting of engaging in risk self-assessment, establishing key risk indicators, operating an early warning system, managing loss data, measuring operational risk capital, monitoring and reporting risks, promoting a strong risk management culture and developing action plans. Woori Bank has also established policies to change operational risk profiling, select permitted levels of risk, develop action plans and manage results. We are also implementing a group-wide operational risk management system to comply with the operational risk requirements of the final Basel III standards, which will become effective in 2023.

We consider legal risk as a part of our operational risk. The uncertainty of the enforceability of the obligations of our customers and counterparties, including foreclosure on collateral, creates legal risk. Legal risk is higher in new areas of business where the law is often untested in the courts although such risk can also increase in our traditional business to the extent that the legal and regulatory landscape in Korea is changing and many new laws and regulations governing the banking industry remain untested. Our relevant subsidiaries' legal departments seek to minimize legal risk by using stringent legal documentation, employing procedures designed to ensure that transactions are properly authorized and consulting legal advisers. Each of our relevant subsidiaries' internal auditors also review loan documentation to ensure that these are correctly drawn up to withstand scrutiny in court should such scrutiny occur.

In connection with our disaster recovery capabilities, Woori Bank has measures in place to recover data and resume core operations within three hours of any business interruption.

The majority of our information technology systems are operated by our subsidiary, Woori FIS. We currently have a "mirror site" in operation with respect to Woori Bank which backs up transaction information on a real-time basis. We also have a "back-up site" in operation with respect to Woori Bank, which backs up transaction information on a daily basis. See "Item 3.D. Risk Factors—Other risks relating to our business—Our operations may be subject to increasing and continually evolving cybersecurity and other technological risks."

## Item 12. DESCRIPTION OF SECURITIES OTHER THAN EQUITY SECURITIES

#### **Fees and Charges**

Under the terms of the deposit agreement, as a holder of our ADSs, you are required to pay the following service fees to the depositary:

Services	Fees
Issuance of ADSs	Up to \$0.05 per ADS issued
Cancellation of ADSs	Up to \$0.05 per ADS cancelled
Distribution of cash dividends or other cash distributions	Up to \$0.05 per ADS held
Distribution of ADSs pursuant to (i) stock dividends or other free stock distributions, or (ii) exercise of the rights to purchase additional ADSs	Up to \$0.05 per ADS held
Distribution of securities other than ADSs or rights to purchase additional ADSs	Up to \$0.05 per ADS held
ADS services	Up to \$0.05 per ADS held on the applicable record date established by the depositary

As a holder of our ADSs, you are also responsible for paying certain fees and expenses such as:

- taxes (including applicable interest and penalties) and other governmental charges;
- fees for the transfer and registration of shares charged by the registrar and transfer agent for the shares in Korea (*i.e.*, upon deposit and withdrawal of shares)
- cable, telex and facsimile transmission and delivery expenses;
- expenses and charges incurred in the conversion of foreign currency;
- fees and expenses incurred in connection with compliance with exchange control regulations and other applicable regulatory requirements; and
- · fees and expenses incurred in connection with the delivery or servicing of shares on deposit.

Depositary fees payable upon the issuance and cancellation of ADSs are typically paid to the depositary by the brokers (on behalf of their clients) receiving the newly issued ADSs from the depositary and by the brokers (on behalf of their clients) delivering the ADSs to the depositary for cancellation. The brokers in turn charge these fees to their clients. Depositary fees payable in connection with distributions of cash or securities to ADS holders and the depositary services fee are charged by the depositary to the holders of record of ADSs as of the applicable ADS record date.

The depositary fees payable for cash distributions are generally deducted from the cash being distributed. In the case of distributions other than cash (i.e., stock dividend, rights), the depositary charges the applicable fee to the ADS record date holders concurrent with the distribution. In the case of ADSs registered in the name of the investor (whether certificated or uncertificated in direct registration), the depositary sends invoices to the applicable record date ADS holders. In the case of ADSs held in brokerage and custodian accounts (via the Depository Trust Company, or DTC), the depositary generally collects its fees through the systems provided by DTC (whose nominee is the registered holder of the ADSs held in DTC) from the brokers and custodians holding ADSs in their DTC accounts. The brokers and custodians who hold their clients' ADSs in DTC accounts in turn charge their clients' accounts the amount of the fees paid to the depositary.

In the event of refusal to pay the depositary fees, the depositary may, under the terms of the deposit agreement, refuse the requested service until payment is received or may set off the amount of the depositary fees from any distribution to be made to such holder of ADSs.

Note that the fees and charges you may be required to pay may vary over time and may be changed by us and by the depositary. You will receive prior notice of such changes.

## Fees and Payments from the Depositary to Us

In 2022, pursuant to an agreement with us, the depositary waived, or made payments to third parties of, approximately \$37,013.72 (net of applicable taxes) in the aggregate in connection with proxy process expenses (including printing, postage and distribution expenses), contributions towards investor relations efforts (including investor relations agency fees) and other standard out-of-pocket maintenance costs relating to our ADS facility that were payable by us.

In addition, as part of its service to us, the depositary waives its fees for the standard costs and operating expenses associated with the administration of the ADS facility.

## Item 13. DEFAULTS, DIVIDEND ARREARAGES AND DELINQUENCIES

Not Applicable

## Item 14. MATERIAL MODIFICATIONS TO THE RIGHTS OF SECURITY HOLDERS AND USE OF PROCEEDS

Not Applicable

#### Item 15. CONTROLS AND PROCEDURES

#### **Disclosure Controls and Procedures**

We have evaluated, with the participation of our chief executive officer and principal financial officer, the effectiveness of our disclosure controls and procedures, as such term is defined in Rules 13a-15(e) and 15d-15(e) under the Exchange Act, as of December 31, 2022. There are inherent limitations to the effectiveness of any system of disclosure controls and procedures, including the possibility of human error and the circumvention or overriding of the controls and procedures. Accordingly, even effective disclosure controls and procedures can only provide reasonable assurance of achieving their control objectives. Based upon our evaluation, our chief executive officer and principal financial officer concluded that our disclosure controls and procedures as of December 31, 2022 were effective to provide reasonable assurance that information required to be disclosed by us in the reports that we file or submit under the Exchange Act, is recorded, processed, summarized and reported, within the time periods specified in the applicable rules and forms, and that it is accumulated and communicated to our management, including our chief executive officer and principal financial officer, as appropriate to allow timely decisions regarding required disclosure.

## Management's Annual Report on Internal Control Over Financial Reporting

Our management is responsible for establishing and maintaining adequate internal control over financial reporting. Our internal control system was designed to provide reasonable assurance to our management and board of directors regarding the reliability of financial reporting and the preparation and fair presentation of published financial statements in accordance with IFRS as issued by the IASB. All internal control systems, no matter how well designed, have inherent limitations. Therefore, even those systems determined to be effective can provide only reasonable assurance with respect to financial statement preparation and presentation and may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

Our management maintains a comprehensive system of controls intended to ensure that transactions are executed in accordance with management's authorization, assets are safeguarded, and financial records are reliable. Our management also takes steps to ensure that information and communication flows are effective and to monitor performance, including performance of internal control procedures.

Our management assessed the effectiveness of our internal control over financial reporting as of December 31, 2022 based on the criteria established in the Internal Control-Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission in May 2013.

Based on this assessment, management believes that, as of December 31, 2022, our internal control over financial reporting is effective.

The effectiveness of our internal control over financial reporting as of December 31, 2022 has been audited by Samil PricewaterhouseCoopers, an independent registered public accounting firm, as stated in its report included herein which expressed an unqualified opinion on the effectiveness of our internal control over financial reporting as of December 31, 2022.

#### **Changes in Internal Control Over Financial Reporting**

There has been no change in our internal control over financial reporting during 2022 that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

#### Item 16. RESERVED

#### Item 16A. AUDIT COMMITTEE FINANCIAL EXPERT

Our board of directors has determined that each of Dong-Woo Chang, Chan-Hyoung Chung and Sung-Tae Ro, our outside directors and members of our Audit Committee, qualifies as an "audit committee financial expert" and is independent within the meaning of this Item 16A.

#### Item 16B. CODE OF ETHICS

We have adopted a code of ethics, as defined in Item 16B of Form 20-F under the Exchange Act. Our code of ethics applies to our chief executive officer, principal financial officer and persons performing similar functions as well as to our outside directors and other officers and employees. We also recommend compliance with the code of ethics to our business counterparts. Our code of ethics is available on our website at <a href="https://www.woorifg.com">https://www.woorifg.com</a>. If we amend or delete any provision of this code of ethics, we will disclose such amendment on our website at the same address.

#### Item 16C. PRINCIPAL ACCOUNTANT FEES AND SERVICES

The following table sets forth the fees billed to us by our independent registered public accountants, Samil PricewaterhouseCoopers, and other firms in the PricewaterhouseCoopers network (which we refer to collectively as PwC), for the fiscal years ended December 31, 2021 and 2022:

	Year ended December 31,	
	2021	2022
	(in millions of Won)	
Audit fees	₩8,574	₩8,598
Audit-related fees	167	165
Tax fees	437	430
All other fees	180	124
Total fees	₩9,358	₩9,317

Audit fees in the above table are the aggregate fees billed or expected to be billed by PwC, in connection with the audit of our annual financial statements, the review of our interim financial statements, the review of filings with the U.S. Securities and Exchange Commission and audit of the effectiveness of our internal control over financial reporting.

Audit-related fees in the above table are the aggregate fees billed or expected to be billed by PwC for agreed-upon procedures related to the issuance of comfort letters in connection with the issuance of debt securities.

Tax fees in the above table are the aggregate fees billed or expected to be billed by PwC for assistance in the preparation of certain tax returns and other tax advice.

All other fees in the above table are the aggregate fees billed in each of the fiscal years by PwC for all other services which are not part of the three categories above.

### **Audit Committee Pre-Approval Policies and Procedures**

Our Audit Committee pre-approves all audit services to be provided by our independent auditors. Our Audit Committee's policy regarding the pre-approval of non-audit services to be provided to us by our independent auditors is that all such services shall be pre-approved by our Audit Committee. Non-audit services that are prohibited to be provided to us by our independent auditors under the rules of the SEC and applicable law may not be pre-approved. In addition, prior to the granting of any pre-approval, our Audit Committee must be satisfied that the performance of the services in question will not compromise the independence of our independent auditors. Our Audit Committee also pre-approves the selection or replacement of the independent auditors of our subsidiaries.

Our Audit Committee did not approve any non-audit services under the *de minimis* exception of Rule 2-01(c)(7)(i)(C) of Regulation S-X as promulgated by the U.S. Securities and Exchange Commission.

# **Item 16D. EXEMPTIONS FROM THE LISTING STANDARDS FOR AUDIT COMMITTEES**Not Applicable

## Item 16E. PURCHASE OF EQUITY SECURITIES BY THE ISSUER AND AFFILIATED PURCHASERS

Neither we nor any "affiliated purchaser," as defined in Rule 10b-18(a)(3) of the Exchange Act, purchased any of our equity securities during the period covered by this annual report.

## Item 16F. CHANGE IN REGISTRANT'S CERTIFYING ACCOUNTANT

The Act on External Audit of Stock Companies prohibits a publicly listed Korean company from being audited by an external auditor for a fiscal year immediately following a period of three consecutive fiscal years of providing such services to the company pursuant to a designation by the Securities and Futures Commission. Accordingly, as Samil PricewaterhouseCoopers, or PwC, has served as our principal accountant to audit our consolidated financial statements prepared in accordance with IFRS as issued by the IASB for the fiscal years ending December 31, 2020, 2021 and 2022, our Audit Committee, on November 15, 2022, appointed KPMG Samjong Accounting Corp. as our principal accountant to audit our consolidated financial statements prepared in accordance with IFRS as issued by the IASB for the fiscal years ending December 31, 2023, 2024 and 2025. KPMG's appointment was effective as of December 29, 2022, and PwC's dismissal was effective as of April 21, 2023 (the date of this annual report), the date of completion of its audit of our financial statements for the fiscal year ending December 31, 2022 and the issuance of its report thereon.

During the two years prior to December 31, 2022 and up until April 21, 2023, or the Pre-Engagement Period, (1) PwC has not issued any reports on our financial statements or on the effectiveness of internal control over financial reporting that contained an adverse opinion or a disclaimer of opinion, nor were the auditor's reports of PwC qualified or modified as to uncertainty, audit scope, or accounting principles, (2) there has not been any disagreement over any matter of accounting principles or practices, financial statement disclosure, or auditing scope or procedures, which disagreements if not resolved to PwC's satisfaction would have caused it to make reference to the subject matter of the disagreement in connection with its auditors' reports, or any "reportable event" as described in Item 16F(a)(1)(v) of Form 20-F.

During the Pre-Engagement Period, neither we nor anyone on our behalf consulted KPMG regarding the application of IFRS as issued by the IASB to a specified transaction, either completed or proposed, or the type of audit opinion that might be rendered on our consolidated financial statements (and neither a written report nor oral advice was provided to us that KPMG concluded was an important factor considered by us in reaching a decision as to any accounting, auditing or financial reporting issue under IFRS as issued by the IASB), except that, in April 2022, we engaged KPMG to conduct an independent investigation into an embezzlement case by an

employee of Woori Bank. During the Pre-Engagement Period, neither we nor anyone on our behalf consulted KPMG regarding any matter that was either the subject of a "disagreement" (as defined in Item 16F(a)(1)(iv) of Form 20-F and the related instructions to Item 16F) or a "reportable event" (as described in Item 16F(a)(1)(v) of Form 20-F).

We provided a copy of the disclosure in this Item 16F to PwC and requested that PwC furnish us with a letter addressed to the Commission stating whether it agrees with such disclosure, and if it does not agree, stating the respects in which it does not agree. A copy of PwC's letter dated April 21, 2023 is filed as Exhibit 15.1 to this annual report on Form 20-F for the fiscal year ended December 31, 2022.

#### Item 16G. CORPORATE GOVERNANCE

## **Differences in Corporate Governance Practices**

Pursuant to the rules of the New York Stock Exchange applicable to foreign private issuers like us that are listed on the New York Stock Exchange, we are required to disclose significant differences between the New York Stock Exchange's corporate governance standards and those that we follow under Korean law. The following is a summary of such significant differences.

## **NYSE Corporate Governance Standards**

## **Director Independence**

Listed companies must have a majority of independent directors.

#### **Executive Session**

Non-management directors must meet in regularly scheduled executive sessions without management. Independent directors should meet alone in an executive session at least once a year.

## Nomination/Corporate Governance Committee

A nomination/corporate governance committee of independent directors is required. The committee must have a charter that addresses the purpose, responsibilities (including development of corporate governance guidelines) and annual performance evaluation of the committee.

## **Compensation Committee**

A compensation committee of independent directors is required. The committee must have a charter that addresses the purpose, responsibilities and annual performance evaluation of the committee. The charter must be made available on the company's website. In addition, in accordance with the SEC rules adopted pursuant to Section 952 of the Dodd-Frank Act, NYSE listing standards were amended to expand the factors relevant in determining whether a committee member has a relationship to the company that will materially affect that member's duties to the compensation committee.

Additionally, the committee may obtain or retain the advice of a compensation adviser only after taking into consideration all factors relevant to determining that adviser's independence from management.

## **Woori Financial Group**

The majority of our board of directors is independent (as defined in accordance with the New York Stock Exchange's standards), as six of our eight directors are outside directors.

Our outside directors hold quarterly meetings, which coincide with the quarterly Audit Committee meetings, to discuss matters relating to management issues. The Audit Committee consists of four outside directors.

We have established a Committee for Recommending Executive Officer Candidates, which consists of six outside directors.

We have established a Compensation Committee consisting of four outside directors.

#### **Audit Committee**

Listed companies must have an audit committee that satisfies the independence and other requirements of Rule 10A-3 under the Exchange Act. All members must be independent. The committee must have a charter addressing the committee's purpose, an annual performance evaluation of the committee, and the duties and responsibilities of the committee. The charter must be made available on the company's website.

We have established an Audit Committee consisting of four outside directors, all of whom are independent. Accordingly, we are in compliance with Rule 10A-3 under the Exchange Act.

## **Audit Committee Additional Requirements**

Listed companies must have an audit committee that is composed of at least three directors.

Our Audit Committee has four members, as described above.

## **Shareholder Approval of Equity Compensation Plan**

Listed companies must allow its shareholders to exercise their voting rights with respect to any material revision to the company's equity compensation plan. We currently do not have an equity compensation plan.

All material matters related to the granting of stock options are provided in our articles of incorporation, and any amendments to the articles of incorporation are subject to shareholders' approval.

#### **Corporate Governance Guidelines**

Listed companies must adopt and disclose corporate governance guidelines.

We have adopted corporate governance standards, the Korean-language version of which is available on our website.

## **Code of Business Conduct and Ethics**

Listed companies must adopt and disclose a code of business conduct and ethics for directors, officers and employees, and promptly disclose any waivers of the code for directors or executive officers. We have adopted a Code of Ethics and Business Conduct for Directors, Officers and Employees, the Korean-language version of which is available on our website.

#### Item 16H. MINE SAFETY DISCLOSURE

**Not Applicable** 

## Item 16I. DISCLOSURE REGARDING FOREIGN JURISDICTIONS THAT PREVENT INSPECTIONS

**Not Applicable** 

#### Item 17. FINANCIAL STATEMENTS

Not Applicable

## Item 18. FINANCIAL STATEMENTS

Reference is made to Item 19(a) for a list of all financial statements filed as part of this annual report.

## Item 19. EXHIBITS

## (a) List of financial statements:

	Page
Audited consolidated financial statements of Woori Financial Group Inc. and subsidiaries prepared	
in accordance with IFRS as issued by the IASB	
Report of Independent Registered Public Accounting Firm	F-1
Consolidated Statements of Financial Position as of December 31, 2021 and 2022	F-4
Consolidated Statements of Comprehensive Income for the Years Ended December 31, 2020, 2021 and 2022	F-5
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2020, 2021 and 2022	F-7
Consolidated Statements of Cash Flows for the Years Ended December 31, 2020, 2021 and 2022	F-11
Notes to Consolidated Financial Statements	F-14

## (b) Exhibits

Pursuant to the rules and regulations of the U.S. Securities and Exchange Commission, we have filed certain agreements as exhibits to this Annual Report on Form 20-F. These agreements may contain representations and warranties made by the parties. These representations and warranties have been made solely for the benefit of the other party or parties to such agreements and (i) may be intended not as statements of fact, but rather as a way of allocating the risk to one of the parties to such agreements if those statements turn out to be inaccurate, (ii) may have been qualified by disclosures that were made to such other party or parties and that either have been reflected in the company's filings or are not required to be disclosed in those filings, (iii) may apply materiality standards different from what may be viewed as material to investors and (iv) were made only as of the date of such agreements or such other date(s) as may be specified in such agreements and are subject to more recent developments. Accordingly, these representations and warranties may not describe our actual state of affairs at the date of this annual report.

Number	Description
1.1	Articles of Incorporation of Woori Financial Group (translation in English).
2.1*	Form of Stock Certificate of Woori Financial Group's common stock, par value \\ \psi_5,000 \text{ per share (translation in English).}
2.2**	Form of the Second Amended and Restated Deposit Agreement by and among Woori Financial Group, Citibank, N.A., as depositary, and all holders and beneficial owners from time to time of American depositary shares issued thereunder, including the form of American depositary receipt.
2.3***	Description of Woori Financial Group's Capital Stock.
2.4***	Description of Woori Financial Group's American Depositary Shares.
8.1****	List of subsidiaries of Woori Financial Group.
11.1*****	Code of Ethics (translation in English).
12.1	Section 302 certifications.
13.1	Section 906 certifications.
15.1	Letter of Samil PricewaterhouseCoopers dated April 21, 2023
101.INS	Inline XBRL Instance Document

Number	Description
101.SCH	Inline XBRL Taxonomy Extension Schema Document
101.CAL	Inline XBRL Taxonomy Extension Calculation Linkbase Document
101.DEF	Inline XBRL Taxonomy Extension Definition Linkbase Document
101.LAB	Inline XBRL Taxonomy Extension Label Linkbase Document
101.PRE	Inline XBRL Taxonomy Extension Presentation Linkbase Document
104	Cover Page Interactive Data File (Embedded within Inline XBRL Instance Document).

<sup>\*</sup> Incorporated by reference to exhibit 2.1 to the Annual Report on Form 20-F (File No. 001-31811), filed on April 30, 2019.

<sup>\*\*</sup> Incorporated by reference to exhibit (a)(1) to the Registration Statement on Form F-6 (File No. 333-229197), filed on January 11, 2019.

<sup>\*\*\*</sup> See Item 10.B. Memorandum and Articles of Association.

<sup>\*\*\*\*</sup> Incorporated by reference to exhibit 2.4 to the Annual Report on Form 20-F (File No. 001-31811), filed on April 29, 2020.

<sup>\*\*\*\*\*</sup> See Note 1 of the notes to the consolidated financial statements of the registrant included in this Annual Report.

<sup>\*\*\*\*\*\*</sup> Incorporated by reference to exhibit 11.1 to the Annual Report on Form 20-F (File No. 001-31811), filed on April 30, 2021.

## **SIGNATURES**

The registrant hereby certifies that it meets all of the requirements for filing on Form 20-F and that it has duly caused and authorized the undersigned to sign this annual report on its behalf.

Woori Financial Group Inc.
(Registrant)

/s/ Jong-Yong Yim
(Signature)

Jong-Yong Yim

Jong-Yong Yim Chief Executive Officer (Name/Title)

Date: April 21, 2023

## Report of Independent Registered Public Accounting Firm

To the Board of Directors and Shareholders of Woori Financial Group Inc.:

## Opinions on the Financial Statements and Internal Control over Financial Reporting

We have audited the accompanying consolidated statements of financial position of Woori Financial Group Inc. and its subsidiaries (the "Company") as of December 31, 2022 and 2021, and the related consolidated statements of comprehensive income, of changes in equity and of cash flows for each of the three years in the period ended December 31, 2022, including the related notes (collectively referred to as the "consolidated financial statements"). We also have audited the Company's internal control over financial reporting as of December 31, 2022, based on criteria established in *Internal Control—Integrated Framework* (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO).

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of the Company as of December 31, 2022 and 2021, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2022 in conformity with International Financial Reporting Standards as issued by the International Accounting Standards Board. Also in our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2022, based on criteria established in *Internal Control—Integrated Framework* (2013) issued by the COSO.

## **Basis for Opinions**

The Company's management is responsible for these consolidated financial statements, for maintaining effective internal control over financial reporting, and for its assessment of the effectiveness of internal control over financial reporting, included in the Management's Annual Report on Internal Control over Financial Reporting appearing under Item 15. Our responsibility is to express opinions on the Company's consolidated financial statements and on the Company's internal control over financial reporting based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) ("PCAOB") and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the consolidated financial statements are free of material misstatement, whether due to error or fraud, and whether effective internal control over financial reporting was maintained in all material respects.

Our audits of the consolidated financial statements included performing procedures to assess the risks of material misstatement of the consolidated financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the consolidated financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the consolidated financial statements. Our audit of internal control over financial reporting included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. Our audits also included performing such other procedures as we considered necessary in the circumstances. We believe that our audits provide a reasonable basis for our opinions.

## **Definition and Limitations of Internal Control over Financial Reporting**

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (i) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (ii) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (iii) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

## **Critical Audit Matter**

The critical audit matter communicated below is a matter arising from the current period audit of the consolidated financial statements that was communicated or required to be communicated to the audit committee and that (i) relate to accounts or disclosures that are material to the consolidated financial statements and (ii) involved our especially challenging, subjective, or complex judgments. The communication of critical audit matters does not alter in any way our opinion on the consolidated financial statements, taken as a whole, and we are not, by communicating the critical audit matter below, providing a separate opinion on the critical audit matter or on the accounts or disclosures to which it relates.

## Allowances for Credit Losses

As described in Note 4 and 10 to the consolidated financial statements, as of 31 December 2022, the allowances for expected credit losses were \(\forall 2,334,153\) million on total loans at amortized cost of \(\forall 346,252,713\) million. The Group recognizes allowances for expected credit losses on loans measured at amortized cost under both individual and collective assessments. For collectively assessed loans, allowances are determined based on assumptions and inputs in the models used for estimating expected credit loss. Significant judgment is applied in management's estimation including qualitative factors affecting credit ratings of corporate borrowers, complexities involved in the criteria for determining forward-looking models. Allowances for expected credit losses for individually assessed loans are determined based on the estimation of the expected future cash flows.

The principal considerations for our determination that performing procedures relating to the allowances for expected credit losses is a critical audit matter are (i) there was significant judgment by management in determining the allowances, which in turn led to a high degree of auditor subjectivity in performing procedures related to the expected credit loss models, key assumptions, such as credit ratings of corporate borrowers, determination of the forward-looking models, and the expected future cash flow estimation related to individually assessed exposures, (ii) there was significant judgment and effort in evaluating audit evidence related to these models, judgments and assumptions used to determine the allowances and (iii) the audit effort involved the use of professionals with specialized skills and knowledge.

Addressing the matter involved performing procedures and evaluating audit evidence in connection with forming our overall opinion on the consolidated financial statements. These procedures included testing the effectiveness of controls relating to the estimation process, which included controls over the data, models and assumptions used in determining the allowances for expected credit losses. These procedures also included, among others, testing management's process in estimating the allowances for expected credit losses, including (i) evaluating the reasonableness of credit ratings of certain corporate borrowers, (ii) evaluating the reasonableness of management's development and selection of forward-looking models, (iii) evaluating the reasonableness of expected future cash flows related to individually assessed exposures. The procedures also included the involvement of professionals with specialized skills and knowledge to assist in evaluating the reasonableness of forward-looking models on the forward looking information.

/s/ Samil PricewaterhouseCoopers

Seoul, Korea April 21, 2023

We have served as the Company's auditor since 2020.

## CONSOLIDATED STATEMENTS OF FINANCIAL POSITION AS OF DECEMBER 31, 2021 AND 2022

	Korea	n Won	U.S. Dollars
	December 31, 2021	December 31, 2022	December 31, 2022
	(in mi	llions)	$(in\ thousands)$
ASSETS			
Cash and cash equivalents (Note 2 and 6)	20,613,073	34,219,148	27,153,744
Financial assets at fair value through profit or loss ("FVTPL") (Notes 4, 7, 11, 12,	12 407 224	10.060.572	15 750 050
18 and 26)	13,497,234	19,860,573	15,759,858
Financial assets at fair value through other comprehensive income ("FVTOCI")	20 110 790	22 005 000	26 252 922
(Notes 4, 8, 11, 12, and 18)	39,119,789 17,086,274	33,085,080 28,268,516	26,253,833 22,431,770
Loans and other financial assets at amortized cost (Notes 4, 10, 11, 12, 18	17,000,274	26,206,310	22,431,770
and 41)	348 885 617	355,760,729	282,304,975
Investments in joint ventures and associates (Note 13)	1,335,167	1,305,636	1,036,055
Investment properties (Notes 14 and 18)	389,495	387,707	307,655
Premises and equipment (Notes 15 and 18)	3,174,720	3,142,930	2,493,993
Intangible assets (Note 16)	785,386	849,114	673,793
Assets held for sale (Note 17)	26,327	13,772	10,929
Net defined benefit asset (Note 24)	21,346	319,280	253,356
Current tax assets (Note 38)	22,598	53,274	42,274
Deferred tax assets (Note 38)	31,131	109,299	86,731
Derivative assets (Designated for hedging) (Notes 4,11,12 and 26)	106,764	37,786	29,984
Other assets (Notes 19 and 41)	2,088,950	3,061,552	2,429,417
Total assets	447,183,871	480,474,396	381,268,367
I I A DILI POLEC			
LIABILITIES  Einemaiol liabilities at fair valva through profit on loss ("EV/TDI") (Nates 4, 11, 12)			
Financial liabilities at fair value through profit or loss ("FVTPL") (Notes 4, 11, 12, 20 and 26)	4,873,458	8,952,399	7,103,951
Deposits due to customers (Notes 4,11,21 and 41)		342,105,209	271,468,980
Borrowings (Notes 4, 6, 11, 12 and 22)	24,755,459	28,429,603	22,559,596
Debentures (Notes 4, 6, 11 and 22)	44,653,864	44,198,486	35,072,597
Provisions (Notes 23, 40 and 41)	576.134	545,865	433,158
Net defined benefit liability (Note 24)	47,986	35,202	27,934
Current tax liabilities (Note 38)	584,491	843,555	669,382
Deferred tax liabilities (Note 38)	169,842	31,799	25,233
Derivative liabilities (Designated for hedging) (Notes 4,11,12 and 26)	27,584	202,911	161,015
Other financial liabilities (Notes 4, 6, 11, 12, 25 and 41)	24,233,226	22,811,868	18,101,783
Other liabilities (Notes 6, 25 and 41)	556,853	690,157	547,657
Total liabilities	418,378,768	448.847.054	356,171,286
		=====	
EQUITY	25 706 027	20.761.007	22 922 270
Owners' equity (Note 28)  Capital stock	25,796,927 3,640,303	28,761,897 3,640,303	22,823,279 2,888,671
Hybrid securities	2,294,381	3,112,449	2,469,805
Capital surplus	682,385	682,385	541,490
Other equity.	(2,167,614)	,	,
Retained earnings	21,347,472	23,750,152	18,846,335
Non-controlling interests	3,008,176	2,865,445	2,273,802
Total equity			
, · ·	28,805,103	31,627,342	25,097,081
Total liabilities and equity	447,183,871	480,474,396	381,268,367

The above consolidated financial statements should be read in conjunction with the accompanying notes.

## CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME FOR THE YEARS ENDED DECEMBER 31, 2020, 2021 AND 2022

		Korean Won		U.S. Dollars
	2020	2021	2022	2022
	(in millions,	except for per	share data)	(in thousands, except per share data) (Note 2)
Interest income	9,523,853	9,894,749	14,654,549	11,628,748
Financial assets at FVTPL	48,612	45,803	106,698	84,667
Financial assets at FVTOCI	437,527	381,814	632,615	501,996
Financial assets at amortized cost	9,037,714	9,467,132	13,915,236	11,042,085
Interest expense	(3,525,341)	(2,909,028)	(5,957,970)	(4,727,798)
Net interest income (Notes 11, 30 and 41)	5,998,512	6,985,721	8,696,579	6,900,950
Fees and commissions income	1,694,016	2,171,705	2,499,700	1,983,574
Fees and commissions expense	(679,977)	(700,930)	(789,530)	(626,512)
Net fees and commissions income (Notes 11, 31 and 41)	1,014,039	1,470,775	1,710,170	1,357,062
Dividend income (Notes 11, 32 and 41)	138,543	309,211	159,982	126,950
Net gain on financial instruments at FVTPL (Notes 11, 33				
and 41)	421,709	325,751	238,502	189,257
Net gain on financial assets at FVTOCI (Notes 11 and 34)	24,138	32,624	(21,498)	(17,059)
Net gain arising on financial assets at amortized cost				
(Note 11)	44,443	107,317	74,204	58,883
Impairment losses due to credit loss (Notes 35 and 41)	(784,371)	(536,838)	(885,272)	(702,485)
General and administrative expenses (Notes 36 and 41)	(3,956,181)	(4,147,411)	(4,529,890)	(3,594,580)
Other net operating expense (Notes 11, 26, 36 and 41)	(820,438)	(887,401)	(1,012,253)	(803,247)
Operating income	2,080,394	3,659,749	4,430,524	3,515,731
Share of gain of joint ventures and associates (Note 13)	101,077	62,196	69,996	55,545
Other non-operating income (expenses)	(180,220)	(34,900)	47,050	37,335
Non-operating income (expense) (Note 37)	(79,143)	27,296	117,046	92,880
Net income before income tax expense	2,001,251	3,687,045	4,547,570	3,608,610
Income tax expense (Note 38)	(486,002)	(924,766)	(1,178,496)	(935,166)
Net income	1,515,249	2,762,279	3,369,074	2,673,444

(Continued)

## CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME—(CONTINUED) FOR THE YEARS ENDED DECEMBER 31, 2020, 2021 AND 2022

		Korean Won		U.S. Dollars
	2020	2021	2022	2022
	(in millions,	except for per		(in thousands, except per share data) (Note 2)
Net gain (loss) on valuation of equity securities at				
FVTOCI	47,246	34,069	(30,146)	(23,921)
Changes in capital due to equity method	(2,065)	(2,607)	(4,527)	(3,592)
Remeasurement gain (loss) related to defined benefit plan	9,783	65,067	251,440	199,524
Items that will not be reclassified to profit or loss	54,964	96,529	216,767	172,011
Net gain (loss) on valuation of debt securities at FVTOCI	12,114	(184,396)	(463,725)	(367,978)
Changes in capital due to equity method	(233)	4,133	5,139	4,078
Net gain (loss) on foreign currency translation of foreign				
operations	(153,472)	246,808	32,536	25,818
Net gain(loss) on valuation of hedges of net investments in				
foreign operations		_	(20,701)	(16,427)
Net gain (loss) on valuation of cash flow hedge	4,420	7,107	(9,835)	(7,804)
Items that may be reclassified to profit or loss	(137,171)	73,652	(456,586)	(362,313)
Other comprehensive income (loss), net of tax	(82,207)	170,181	(239,819)	(190,302)
Total comprehensive income	1,433,042	2,932,460	3,129,255	2,483,142
Net income attributable to:				
Net income attributable to owners	1,307,266	2,542,844	3,186,772	2,528,783
Net income attributable to non-controlling interests	207,983	219,435	182,302	144,661
Total comprehensive income attributable to:				
Comprehensive income attributable to owners	1,233,097	2,700,672	2,954,145	2,344,188
Comprehensive income attributable to non-controlling				
interests	199,945	231,788	175,110	138,954
Earnings per share (Note 39)				
Basic and diluted earnings per share (Unit: In Korean				
Won and U.S. Dollar)	1,742	3,419	4,251	3,374

The above consolidated financial statements should be read in conjunction with the accompanying notes.

## (Continued)

# WOORI FINANCIAL GROUP INC. AND SUBSIDIARIES CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY FOR THE YEARS ENDED DECEMBER 31, 2020, 2021 AND 2022

	Capital Stock	Hybrid securities	Capital surplus	Other equity	Retained earnings	Owners' equity in total	Non-controlling interests	Total equity
Tonnowy 1 2020	3 611 338	007 5/1/	300 909	(Korean	Korean Won in millions	3) 21 510 370	3 081 062	75 707 337
Total comprehensive income	0,011,00	++0,100	020,020	(776,647,7)		0/5,015,12	2,701,702	47,474,334
Net income			1	1	1,307,266	1,307,266	207,983	1,515,249
Net gain (loss) on valuation of financial								
instruments at FVTOCI				59,417		59,417	(57)	59,360
Net gain (loss) due to disposal of equity								
securities at FVTOCI				2,664	(2,664)			
Changes in capital due to equity method				(2,298)		(2,298)		(2,298)
Loss on foreign currency translation of								
foreign operations				(145,376)		(145,376)	(8,096)	(153,472)
Gain on valuation of cash flow hedge				4,306		4,306	114	4,420
Remeasurement gain related to defined								
benefit plan				9,782		9,782	1	9,783
Transactions with owners and others								
Dividends to common stocks					(505,587)	(505,587)	(2,071)	(507,658)
Issuance of hybrid securities		897,822				897,822		897,822
Dividends to hybrid securities					(48,915)	(48,915)	(162,362)	(211,277)
Redemption of hybrid securities				(31,252)		(31,252)	(555,744)	(586,996)
Changes in subsidiaries' capital			(184)	4,607	(6,350)	(1,927)	45,684	43,757
Changes in non-controlling interests related								
to business combination							164,823	164,823
December 31, 2020	3,611,338	1,895,366	626,111	(2,347,472)	19,268,265	23,053,608	3,672,237	26,725,845

## (Continued)

## WOORI FINANCIAL GROUP INC. AND SUBSIDIARIES

# CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY—(CONTINUED) FOR THE YEARS ENDED DECEMBER 31, 2020, 2021 AND 2022

	Capital Stock	Hybrid securities	Capital surplus	Other equity	Retained earnings	Owners' equity in total	Non-controlling interests	Total equity
January 1, 2021	3,611,338	1,895,366	626,111	(Korean (2,347,472)	(Korean Won in millions) 7,472) 19,268,265	s) 23,053,608	3,672,237	26,725,845
Total comprehensive income  Net income					2,542,844	2,542,844	219,435	2,762,279
Net gain (loss) on valuation of financial instruments at FVTOCI				(150,470)		(150,470)	143	(150,327)
Net gain (loss) due to disposal of equity securities at FVTOCI				(2,220)	2,220		I	
Changes in capital due to equity method				2,472	(946)	1,526		1,526
Gain on foreign currency translation of								
foreign operations				234,583		234,583	12,225	246,808
Gain on valuation of cash flow hedge				6,938		6,938	169	7,107
Capital related to non-current assets held for								
sale				(947)	947			
Remeasurement gain related to defined								
benefit plan				65,251		65,251	(184)	65,067
Transactions with owners and others								
Comprehensive stock exchange	28,965		35,197			64,162		64,162
Dividends to common stocks					(368,357)	(368,357)	(9,391)	(377,748)
Acquisition of treasury stocks				(3,819)		(3,819)		(3,819)
Issuance of hybrid securities		399,015				399,015		399,015
Dividends to hybrid securities					(66,250)	(66,250)	(144,923)	(211,173)
Redemption of hybrid securities				(27,365)		(27,365)	(549,904)	(577,269)
Changes in subsidiaries' capital			9,382	32,445	(31,251)	10,576	(11,296)	(720)
Others			11,695	22,990		34,685	(180,335)	(145,650)
December 31, 2021	3,640,303	2,294,381	682,385	(2,167,614)	21,347,472	25,796,927	3,008,176	28,805,103

## (Continued)

## WOORI FINANCIAL GROUP INC. AND SUBSIDIARIES

# CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY—(CONTINUED) FOR THE YEARS ENDED DECEMBER 31, 2020, 2021 AND 2022

	Capital Stock	Hybrid securities	Capital surplus	Other equity	Retained earnings	Owners' equity in total	Non-controlling interests	Total equity
January 1, 2022	3,640,303	2,294,381	682,385	(Korean (2,167,614)	(Korean Won in millions) 7,614) 21,347,472	25,796,927	3,008,176	28,805,103
Total comprehensive income							000	
Net income					3,186,772	3,186,772	182,302	3,369,074
Net gain (loss) on valuation of financial instruments at FVTOCI				(493 462)		(493 462)	(404)	(493 871)
Net gain (loss) due to disposal of equity								
securities at FVTOCI				10,254	(10,254)	1	1	1
Changes in capital due to equity method				612		612		612
Gain(loss) on foreign currency translation of								
foreign operations				39,579		39,579	(7,043)	32,536
Loss on valuation of hedges of net								
investments in foreign operations				(20,701)		(20,701)		(20,701)
Loss on valuation of cash flow hedge				(9,835)		(9,835)		(9,835)
Capital related to non-current assets held								
for sale				(279)	279			
Remeasurement gain related to defined								
benefit plan				251,180		251,180	260	251,440
Transactions with owners and others								
Dividends to common stocks					(654,996)	(654,996)	(9,949)	(664,945)
Issuance of hybrid securities		818,068				818,068	349,215	1,167,283
Dividends to hybrid securities					(91,756)	(91,756)	(113,995)	(205,751)
Redemption of hybrid securities				(60,491)		(60,491)	(559,565)	(620,056)
Changes in subsidiaries' capital				27,365	(27,365)			
Changes in non-controlling interests related								
to business combinations							16,453	16,453
December 31, 2022	3,640,303	3,112,449	682,385	(2,423,392)	23,750,152	28,761,897	2,865,445	31,627,342

# CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY—(CONTINUED) FOR THE YEARS ENDED DECEMBER 31, 2020, 2021 AND 2022

	Capital Stock	Hybrid securities	Capital surplus	Other equity	Retained earnings	Owners' equity in total	Non-controlling interests	Total equity
January 1, 2022	2,888,671	1,820,648	541,490	(U.S dollars in thousands) ((1,720,056) 16,939,749	(U.S dollars in thousands) (Note 2) .,720,056) 16,939,749 20,4	ote 2) 20,470,502	2,387,063	22,857,565
Total comprehensive income	١				2 528 783	2 528 783	144 661	2 673 444
Net gain (loss) on valuation of financial					1,010,000	,,,	100,111	, , , , , , , ,
instruments at FVTOCI				(391,575)		(391,575)	(324)	(391,899)
Net gain (loss) due to disposal of equity								
securities at FVTOCI				8,137	(8,137)			
Changes in capital due to equity method				486		486		486
Gain(loss) on foreign currency translation of								
foreign operations				31,407		31,407	(5,589)	25,818
Loss on valuation of hedges of net								
investments in foreign operations				(16,427)		(16,427)		(16,427)
Loss on valuation of cash flow hedge				(7,804)		(7,804)		(7,804)
Capital related to non-current assets held								
for sale				(221)	221			
Remeasurement gain related to defined								
benefit plan				199,318		199,318	206	199,524
Transactions with owners and others								
Dividends to common stocks					(519,756)	(519,756)	(7,895)	(527,651)
Issuance of hybrid securities		649,157				649,157	277,111	926,268
Dividends to hybrid securities					(72,811)	(72,811)	(90,458)	(163,269)
Redemption of hybrid securities				(48,001)		(48,001)	(444,028)	(492,029)
Changes in subsidiaries' capital				21,714	(21,714)			
Changes in non-controlling interests related								
to business combinations							13,055	13,055
December 31, 2022	2,888,671	2,469,805	541,490	$\underbrace{(1,923,022)}_{}$	18,846,335	22,823,279	2,273,802	25,097,081

The above consolidated financial statements should be read in conjunction with the accompanying notes.

## CONSOLIDATED STATEMENTS OF CASH FLOWS FOR THE YEARS ENDED DECEMBER 31, 2020, 2021 AND 2022

		Korean Won		U.S. Dollars
	2020	2021	2022	2022
		(in millions)		(in thousands)
Coch flows from energting estivities				(Note 2)
Cash flows from operating activities:  Net income	1 515 240	2,762,279	3,369,074	2,673,444
Adjustments to net income:	1,515,249	2,702,279	3,309,074	2,073,444
Income tax expense	486,002	924,766	1,178,496	935,166
Interest income	(9,523,853)	,		(11,628,748)
Interest expense	3,525,341	2,909,028	5,957,970	4,727,798
Dividend income	(138,543)	(309,211)	(159,982)	
Dividend income				
	(5,651,053)	(6,370,166)	(7,678,065)	(6,092,734)
Additions of expenses not involving cash outflows:				
Loss on financial instruments at FVTPL	44,863	16,869	815,706	647,283
Loss on financial assets at FVTOCI	787	15,812	23,836	18,914
Impairment loss due to credit loss	784,371	536,838	885,272	702,485
Loss on other provisions	232,680	85,690	37,493	29,752
Retirement benefit	174,628	177,303	165,063	130,981
Depreciation and amortization	535,548	791,896	929,311	737,432
Net loss on foreign currency translation	191,504	109,668		
Loss on derivatives (designated for hedge)	82,746	93,084	250,268	198,594
Loss on fair value hedge	68,508	1,947		
Loss on valuation of investments in joint ventures and				
associates	24,525	19,816	28,861	22,902
Loss on disposal of investments in joint ventures and				
associates	_	174	3,690	2,928
Loss on disposal of premises and equipment, intangible assets and				
other assets	2,717	3,354	3,177	2,521
Impairment loss on premises and equipment, intangible assets and				
other assets	8,763	656	260	207
	2,151,640	1,853,107	3,142,937	2,493,999
Deductions of income not involving cash inflows:				
Gain on financial assets at FVTOCI	(24,925)	(48,436)	(2,338)	(1,855)
Gain on other provisions	(2,450)	(1,591)	(55,327)	
Net profit on foreign currency translation	(2, .00)	(1,0)1)	(3,180)	
Gain on derivatives (designated for hedge)	(67,395)	(61,271)	(71,179)	
Gain on fair value hedge	(9,646)	(106,253)	(257,910)	
Gain on valuation of investments in joint ventures and	(- / /	(,,	( / /	( - ,,
associates	(125,602)	(82,012)	(98,858)	(78,446)
Gain on disposal of investments in joint ventures and	, , ,	, , ,	, , ,	, , ,
associates	(3,470)	(70,834)	(599)	(475)
Gain on disposal of premises and equipment, intangible assets			, ,	, ,
and other assets	(9,715)	(51,083)	(55,852)	(44,320)
Reversal of impairment loss on premises and equipment,			, , ,	
intangible assets and other assets	(172)	(166)	(310)	(246)
Profit from bargain purchase	(67,427)	`—	` —	
Other income	(20,600)	(35,717)	(15,879)	(12,602)
	(331,402)	(457,363)	(561,432)	
	(331,102)	(157,505)	(551,152)	(113,312)

(Continued)

## CONSOLIDATED STATEMENTS OF CASH FLOWS—(CONTINUED) FOR THE YEARS ENDED DECEMBER 31, 2020, 2021 AND 2022

		Korean Won		U.S. Dollars
	2020	2021	2022	2022
		(in millions)		(in thousands)
				(Note 2)
Changes in operating assets and liabilities: Financial instruments at FVTPL	(975 076)	42 409	(1.647.572)	(1.207.290)
Loans and other financial assets at amortized cost	(875,076)	42,498	(1,647,572)	(1,307,389)
	(26,617,542)			(4,750,697)
Other assets	(89,918)	(983,680)		
Deposits due to customers	27,378,173	23,830,469	23,536,088	18,676,470
Provisions	(184,112)			
Net defined benefit liability	(214,741)	. , ,		
Other financial liabilities			(2,514,238)	
Other liabilities			83,559	66,306
	(3,306,067)	(65,860)	11,998,670	9,521,243
Cash received (paid) from operating activities:				
Interest income received	9,558,119	9,351,055	14,189,016	11,259,337
Interest expense paid	(4,008,001)			
Dividends received	138,562	309,071	159,993	126,958
Income tax paid	(315,422)	(565,539)	(1,030,480)	(817,712)
	5,373,258	6,077,746	8,352,935	6,628,261
Net cash inflow (outflow) from operating activities	(248,375)	3,799,743	18,624,119	14,778,701
Cash flows from investing activities:				
Cash in-flows from investing activities:				
Disposal of financial instruments at FVTPL	6,605,483	10,361,751	9,502,271	7,540,288
Disposal of financial assets at FVTOCI	20,527,695	21,645,907	21,717,266	17,233,190
Redemption of securities at amortized cost	5,661,472	6,425,062	5,872,961	4,660,340
Disposal of investments in joint ventures and associates	410,940	195,758	249,763	198,193
Disposal of investment properties	353	_	2,061	1,635
Disposal of premises and equipment	22,828	2,890	44,839	35,581
Disposal of intangible assets	634	846	978	776
Disposal of assets held for sale	_	93,756	52,417	41,594
Net increase of other assets	26,642	66,305	62,386	49,506
	33,256,047	38,792,275	37,504,942	29,761,103
Cash out-flows from investing activities:				
Net cash out-flows of business combination	(313,058)		_	_
Net cash out-flows from obtaining control	_	(1,638)	(378,394)	(300,265)
Acquisition of financial instruments at FVTPL	(8.082.824)		(10,274,187)	. , ,
Acquisition of financial assets at FVTOCI				
Acquisition of securities at amortized cost				(13,389,299)
Acquisition of investments in joint ventures and associates	(550,619)			
Acquisition of investment properties	(76,588)		( · · · · · · · · · · · · · · · · · · ·	_
Acquisition of premises and equipment	(149,341)		(172,876)	(137,181)
Acquisition of intangible assets	(114,854)	(138,882)		
Changes in subsidiaries		— — — — — — — — — — — — — — — — — — —	(346,386)	
G	(3/1712/172)	(40 450 134)		(35,290,932)
Not each outflow from investing activities		<del></del>		
Net cash outflow from investing activities	(1,430,426)	(10,000,839)	(6,968,690)	(5,529,829)

(Continued)

## CONSOLIDATED STATEMENTS OF CASH FLOWS—(CONTINUED) FOR THE YEARS ENDED DECEMBER 31, 2020, 2021 AND 2022

		Korean Won		U.S. Dollars
	2020	2021	2022	2022
		(in millions)		(in thousands) (Note 2)
Cash flows from financing activities:				
Cash in-flows from financing activities:				
Net cash in-flows from hedging activities	_	6,987	54,569	43,302
Net increase in borrowings	2,033,851	3,199,712	2,881,675	2,286,681
Issuance of debentures	23,082,798	32,674,966	23,402,694	18,570,619
Net increase of other liabilities	3,971	3,489	513	407
Issuance of hybrid securities	897,822	399,015	1,167,283	926,268
Paid-in capital increase on non-controlling interests	45,749	1,623	_	_
Net increase in non-controlling equity liabilities		10,685	1,847	1,466
	26,064,191	36,296,477	27,508,581	21,828,743
Cash out-flows from financing activities:				
Net cash out-flows from hedging activities	(5,409)			
Redemption of debentures	(22,168,962)	(25,781,305)	(23,887,568)	(18,955,378)
Redemption of lease liabilities	(204,794)	(177,593)	(187,531)	(148,811)
New stock issue cost	_	(140)	_	_
Acquisition of treasury stocks	_	(3,757)	_	_
Dividends paid	(505,587)	(368,357)	(654,996)	(519,756)
Redemption of hybrid securities	(598,850)	(587,650)	(643,000)	(510,236)
Dividends paid to hybrid securities	(211,277)	(211,173)	(205,751)	(163,269)
Dividends paid to non-controlling interest	(2,071)	(9,391)	(9,949)	(7,895)
Changes in non-controlling interests		(81,410)		
	(23,696,950)	(27,220,776)	(25,588,795)	(20,305,345)
Net cash inflow from financing activities	2,367,241	9,075,701	1,919,786	1,523,398
Effects of exchange rate changes on cash and cash equivalents	(1,072,912)	1,061,251	30,860	24,489
Net increase (decrease) in cash and cash equivalents	(410,472)	3,269,836	13,606,075	10,796,759
Cash and cash equivalents, beginning of the period	17,753,709	17,343,237	20,613,073	16,356,985
Cash and cash equivalents, end of the period (Note 6)	17,343,237	20,613,073	34,219,148	27,153,744

The above consolidated financial statements should be read in conjunction with the accompanying notes.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS AS OF DECEMBER 31, 2021 AND 2022 AND FOR THE YEARS ENDED DECEMBER 31, 2020, 2021 AND 2022

## 1. GENERAL

## (1) Summary of the Parent company

Woori Financial Group, Inc. (hereinafter referred to the "Parent company") is primarily aimed at controlling subsidiaries that operate in the financial industry or those that are closely related to the financial industry through the ownership of shares and was established on January 11, 2019 under the Financial Holding Company Act through the comprehensive transfer with shareholders of Woori Bank (hereinafter referred to the "Bank"), Woori FIS Co., Ltd., Woori Finance Research Institute Co., Ltd., Woori Credit Information Co., Ltd., Woori Fund Services Co., Ltd. and Woori Private Equity Asset Management Co. Ltd. The headquarters of the Parent company is located at 51, Sogong-ro, Jung-gu, Seoul, Korea, and the capital stock is 3,640,303 million Won. The Parent company's stocks were listed on the Korea Exchange on February 13, 2019, and its American Depository Shares ("ADS") are also being traded as the underlying common stock on the New York Stock Exchange since the same date.

The details of stock transfer between the Parent company and subsidiaries as of incorporation are as follows (Unit: Number of shares)

Stock transfer company	Total number of issued shares	Exchange ratio per share	Number of Parent company's stocks
Woori Bank	676,000,000	1.0000000	676,000,000
Woori FIS Co., Ltd	4,900,000	0.2999708	1,469,857
Woori Finance Research Institute Co., Ltd	600,000	0.1888165	113,289
Woori Credit Information Co., Ltd	1,008,000	1.1037292	1,112,559
Woori Fund Service Co., Ltd.	2,000,000	0.4709031	941,806
Woori Private Equity Asset Management Co., Ltd	6,000,000	0.0877992	526,795

As of August 1, 2019, the Parent company acquired a 73% interest in Tongyang Asset Management Co., Ltd. and changed the name to Woori Asset Management Corp. Also, as of August 1, 2019, the Parent company gained 100% control of ABL Global Asset Management Co., Ltd., added it as a consolidated subsidiary and changed the name to Woori Global Asset Management Co., Ltd. on December 6, 2019.

The Parent company paid 598,391 million Won in cash and 42,103,377 new shares of the Parent company to acquire 100% interest of Woori Card Co., Ltd. from its subsidiary, Woori Bank, on September 10, 2019. On the same date, the Parent company also acquired 59.8% interest of Woori Investment Bank Co., Ltd. from Woori Bank with 392,795 million Won in cash.

As of December 30, 2019, the Parent company acquired a 67.2% interest (excluding treasury stocks, 51% interest including treasury stocks) in Woori Asset Trust Co., Ltd. (formerly Kukje Asset Trust Co., Ltd.) and added it as a consolidated subsidiary at the end of 2019.

The Parent Company paid 113,238 million Won in cash to acquire 100% interest of Woori Savings Bank from its subsidiary, Woori Financial Capital Co., Ltd., on March 12, 2021.

As of August 10, 2021, the Parent company paid 5,792,866 new shares of the Parent company to the shareholders of Woori Financial Capital Co., Ltd. (excluding the Parent company) through comprehensive stock exchange and acquired residual interest (9.5%) of Woori Financial Capital Co., Ltd., to make it a wholly owned subsidiary.

As of January 7, 2022, the Parent company established Woori Financial F&I Co., Ltd., an investment company for non-performing loans and restructuring companies (100% interest, 200 billion Won in stock payments) and included it as a subsidiary.

## (2) Details of the Parent company and subsidiaries (hereinafter 'Group') as of December 31, 2021 and 2022 are as follows:

Subsidiaries				of ownership %)		Financial
Woori Bank   Bank   100.0   100.0   Korea   December 31	Subsidiaries	Main business			Location	statements
Woori Bank   Bank   100.0   100.0   Korea   December 31	Held by Woori Financial Group Inc					
Woori Financial Capital Co., Ltd.	•	Bank	100.0	100.0	Korea	December 31
Woori Financial Co, Ltd.						
Woori Investment Bank Co, Ltd.						
Woori Asset Trust Co., Ltd.   Real estate trust   67.2   67.2   Korea   December 31			100.0	100.0	Horeu	December 51
Woori Asset Trust Co., Ltd.	Wood in Comment Baint Con, Etc. 1111111		58.7	58.7	Korea	December 31
Woori Savings Bank(**)	Woori Asset Trust Co., Ltd.					
Woori Asset Management Corp.   Finance   T3.0   T3.0   Korea   December 31						
Woori Financial F&I Co, Ltd.   Finance						
Woori Credit Information Co., Ltd.	2 1		_		Korea	
Service business   100.0   100.0   Korea   December 31			100.0		Korea	
Service business   100.0   100.0   Korea   December 31						
Co., Ltd.   Finance	,		100.0	100.0	Korea	December 31
Co., Ltd.   Finance	Woori Private Equity Asset Management					
Ltd		Finance	100.0	100.0	Korea	December 31
Woori FIS Co., Ltd.	Woori Global Asset Management Co.,					
Woori Finance Research Institute Co.   Ltd.   Other service business   100.0   100.0   Korea   December 31	Ltd	Finance	100.0	100.0	Korea	December 31
Moori Finance Research Institute Co., Ltd.	Woori FIS Co., Ltd	System software				
Woori Finance Research Institute Co., Ltd.		development &				
Ltd.   Other service business   100.0   100.0   Korea   December 31		maintenance	100.0	100.0	Korea	December 31
Held by Woori Bank   Woori America Bank(*1)	Woori Finance Research Institute Co.,					
Woori America Bank(*1)         Finance         100.0         100.0         America         December 31           Woori Global Markets Asia Limited         Finance         100.0         100.0         Hong Kong         December 31           Woori Bank China Limited         Finance         100.0         100.0         China         December 31           AO Woori Bank Woori Saudara Indonesia 1906         Finance         100.0         100.0         Russia         December 31           Tbk(*1)         Finance         100.0         100.0         Brazil         December 31           Banco Woori Bank do Brasil S.A.         Finance         100.0         100.0         Brazil         December 31           Woori Bank Vietnam Limited         Finance         100.0         100.0         Myanmar         December 31           Woori Bank Vietnam Limited         Finance         100.0         100.0         Myanmar         December 31           Woori Bank Cambodia) PLC(*9)         Finance         100.0         100.0         Vietnam         December 31           Woori Bank Europe(*1)         Finance         100.0         100.0         Cambodia         December 31           Woori Bank Europe(*2)         Finance         100.0         100.0         Germany         December 3	Ltd	Other service business	100.0	100.0	Korea	December 31
Woori Global Markets Asia Limited Finance 100.0 100.0 China December 31 AO Woori Bank (China Limited Finance 100.0 100.0 China December 31 AO Woori Bank (China Limited Finance 100.0 100.0 Russia December 31 PT Bank Woori Saudara Indonesia 1906  Tbk(*1) Finance 84.2 84.2 Indonesia December 31 Banco Woori Bank do Brasil S.A. Finance 100.0 100.0 Brazil December 31 Korea BTL Infrastructure Fund Finance 99.9 99.9 Korea December 31 Woori Finance Myanmar Co., Ltd. Finance 100.0 100.0 Myanmar December 31 Woori Bank Vietnam Limited Finance 51.0 51.0 Philippines December 31 Woori Bank Vietnam Limited Finance 100.0 100.0 Wietnam December 31 Woori Bank (Cambodia) PLC(*9) Finance 100.0 100.0 Cambodia December 31 Woori Bank Europe(*1) Finance 100.0 100.0 Germany December 31 Kumho Trust First Co., Ltd.(*2) Asset securitization 0.0 0.0 Korea December 31 KAMCO Value Recreation First Securitization Specialty Co., Ltd.(*2) Asset securitization 0.0 0.0 Korea December 31 Deogi Dream Fourth Co., Ltd.(*2) Asset securitization 0.0 0.0 Korea December 31 Woori In Inc.(*2) Asset securitization 0.0 0.0 Korea December 31 Deogi Dream Fourth Co., Ltd.(*2) Asset securitization 0.0 0.0 Korea December 31 Deogi Dream Fourth Co., Ltd.(*2) Asset securitization 0.0 0.0 Korea December 31 Heitz Third Co., Ltd.(*2) Asset securitization 0.0 0.0 Korea December 31 Woorilansoop 1st Co., Ltd.(*2) Asset securitization 0.0 0.0 Korea December 31 Woorilnansoop 1st Co., Ltd.(*2) Asset securitization 0.0 0.0 Korea December 31 Woorilnansoop 1st Co., Ltd.(*2) Asset securitization 0.0 0.0 Korea December 31 Woorilnansoop 1st Co., Ltd.(*2) Asset securitization 0.0 0.0 Korea December 31 Woorilnansoop 1st Co., Ltd.(*2) Asset securitization 0.0 0.0 Korea December 31 Woorilnansoop 1st Co., Ltd.(*2) Asset securitization 0.0 0.0 Korea December 31 Woorilnansoop 1st Co., Ltd.(*2) Asset securitization 0.0 0.0 Korea December 31 Woorilnansoop 1st Co., Ltd.(*2) Asset securitization 0.0 0.0 Korea December 31 Woorilnansoop 1st Co., Ltd.(*2) Asset securitization 0.0 0.0 Korea Decem						
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Asiana Saigon Inc. (**2)	Woorl Bank Europe (1)					
KAMCO Value Recreation First  Securitization Specialty Co., Ltd. (*2)  Deogi Dream Fourth Co., Ltd. (*2)  Asset securitization  Jeonju Iwon Ltd. (*2)  Asset securitization  Asset securitization  O.0  Corea  December 31  Wonju I one Inc. (*2)  Asset securitization  O.0  O.0  Korea  December 31  Heitz Third Co., Ltd. (*2)  Asset securitization  O.0  O.0  Korea  December 31  Woorihansoop 1st Co., Ltd. (*2)  Asset securitization  O.0  O.0  Korea  December 31  Woori International First Co., Ltd. (*2)  Asset securitization  O.0  O.0  Korea  December 31  Woori International First Co., Ltd. (*2)  Asset securitization  O.0  O.0  Korea  December 31  Woori International First Co., Ltd. (*2)  Asset securitization  O.0  O.0  Korea  December 31  Wibihansoop 1st Co., Ltd. (*2)  Asset securitization  O.0  O.0  Korea  December 31	Kumno Trust First Co., Ltd. (2)					
Securitization Specialty Co., Ltd. Asset securitization Deogi Dream Fourth Co., Ltd. December 31 Deogi Iwon Ltd. Asset securitization December 31 December 3		Asset securitization	0.0	0.0	Korea	December 31
Deogi Dream Fourth Co., Ltd. (*2) Asset securitization 0.0 — Korea — Jeonju Iwon Ltd. (*2) Asset securitization 0.0 0.0 Korea December 31 Wonju I one Inc. (*2) Asset securitization 0.0 0.0 Korea December 31 Heitz Third Co., Ltd. (*2) Asset securitization 0.0 0.0 Korea December 31 Woorihansoop 1st Co., Ltd. (*2) Asset securitization 0.0 0.0 Korea December 31 Woori International First Co., Ltd. (*2) Asset securitization 0.0 0.0 Korea December 31 Wibihansoop 1st Co., Ltd. (*2) Asset securitization 0.0 0.0 Korea December 31 Wibihansoop 1st Co., Ltd. (*2) Asset securitization 0.0 0.0 Korea December 31 Wibihansoop 1st Co., Ltd. (*2) Asset securitization 0.0 0.0 Korea December 31		A coat conmitization	15.0	15.0	Vomos	Dagamban 21
Jeonju Iwon Ltd. (*2)				13.0		December 31
Wonju I one Inc. (*2) Asset securitization 0.0 0.0 Korea December 31 Heitz Third Co., Ltd. (*2) Asset securitization 0.0 0.0 Korea December 31 Woorihansoop 1st Co., Ltd. (*2) Asset securitization 0.0 0.0 Korea December 31 Woori International First Co., Ltd. (*2) Asset securitization 0.0 0.0 Korea December 31 Wibihansoop 1st Co., Ltd. (*2) Asset securitization 0.0 0.0 Korea December 31 Wibihansoop 1st Co., Ltd. (*2) Asset securitization 0.0 0.0 Korea December 31						Dogombor 21
Heitz Third Co., Ltd. (*2) Asset securitization 0.0 0.0 Korea December 31 Woorihansoop 1st Co., Ltd. (*2) Asset securitization 0.0 0.0 Korea December 31 Woori International First Co., Ltd. (*2) Asset securitization 0.0 0.0 Korea December 31 Wibihansoop 1st Co., Ltd. (*2) Asset securitization 0.0 0.0 Korea December 31 Wibihansoop 1st Co., Ltd. (*2) Asset securitization 0.0 0.0 Korea December 31	Wonju Lone Inc (*2)					
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Wibihansoop 1st Co., Ltd. (*2) Asset securitization 0.0 0.0 Korea December 31						
Wildingtoop 1st Co., Etc. Asset securitization 0.0 Note December 31						
Woori QS 1st Co., Ltd. (*2) Asset securitization 0.0 0.0 Korea December 31	Woori QS 1st Co., Ltd. (*2)					
Woori Display 1st Co., Ltd. (*2)(*5) Asset securitization 0.0 — Korea —	Woori Display 1st Co. Ltd. (*2)(*5)					December 51
Tiger Eyes 2nd Co., Ltd. (*2)(*5) Asset securitization 0.0 — Korea —						_
Woori Display 2nd Co., Ltd. (*2)	Woori Display 2nd Co. Ltd (*2)					December 31
Woori Dream 2nd Co., Ltd. (*2) Asset securitization 0.0 0.0 Korea December 31	Woori Dream 2nd Co. Ltd. (*2)					
Woori H 1st Co., Ltd. (*2) Asset securitization 0.0 0.0 Korea December 31						
Woori K 1st Co., Ltd. (*2) Asset securitization 0.0 0.0 Korea December 31	Woori K 1st Co., Ltd. <sup>(*2)</sup>					
Woori S 1st Co., Ltd. (*2) Asset securitization 0.0 0.0 Korea December 31	Woori S 1st Co., Ltd. (*2)					

Percentage of ownership (%)

		Percentage (			
Subsidiaries	Main business	December 31, 2021	December 31, 2022	Location	Financial statements date of use
Woori Display 3rd Co., Ltd.(*2)	Asset securitization	0.0	0.0	Korea	December 31
TY 1st Co., Ltd.(*2)	Asset securitization	0.0	0.0	Korea	December 31
Woori-HJ 3rd Co., Ltd.(*2)(*5)	Asset securitization	0.0	_	Korea	_
Woori K 2nd Co., Ltd.(*2)(*5)	Asset securitization	0.0	_	Korea	_
Woori KC No.1 Co., Ltd.(*2)	Asset securitization	0.0	0.0	Korea	December 31
Quantum Jump the 2nd Co., Ltd.(*2)	Asset securitization	0.0	0.0	Korea	December 31
Quantum Jump the 1st Co., Ltd.(*2)(*5)	Asset securitization	0.0	_	Korea	_
Woori BK the 1st Co., Ltd.(*2)(*5)	Asset securitization	0.0	_	Korea	_
Woori-HC 1st Co., Ltd. (*2)(*5)	Asset securitization	0.0	_	Korea	_
Wivi Synergy 1st Co.,Ltd. (*2)(*5) ATLANTIC TRANSPORTATION 1	Asset securitization	0.0	_	Korea	_
S.A. <sup>(*2)</sup>	Asset securitization	0.0	0.0	Marshall islands	
Woori Gongdeok First Co., Ltd. (*2)	Asset securitization	0.0	0.0	Korea	December 31
HD Project Co., Ltd. (*2)	Asset securitization	0.0	0.0	Korea	December 31
Woori HW 1st Co., Ltd. (*2)	Asset securitization	0.0	0.0	Korea	December 31
Woori HC 2nd Co., Ltd. (*2)	Asset securitization Asset securitization	0.0 0.0	0.0 0.0	Korea Korea	December 31 December 31
Woori SJS 1st Co., Ltd.(*2)	Asset securitization	0.0	0.0	Korea	December 31
Woori Steel 1st Co., Ltd. (*2)	Asset securitization	0.0	0.0	Korea	December 31
SPG the 1st Co., Ltd.(*2)	Asset securitization	0.0	0.0	Korea	December 31
Woori-HWC 1st Co., Ltd. (*2)	Asset securitization Asset securitization	0.0	0.0	Korea	December 31
Woori HC 3rd Co., Ltd. (*2).	Asset securitization	0.0	0.0	Korea	December 31
Woori Park I 1st co., Ltd.(*2)	Asset securitization	0.0	0.0	Korea	December 31
Woori DS 1st co., Ltd. (*2)	Asset securitization	0.0	0.0	Korea	December 31
Woori HC 4th Co., Ltd. <sup>(*2)</sup> .	Asset securitization	0.0	0.0	Korea	December 31
Woori SKR 1st Co., Ltd. (*2).	Asset securitization	0.0	0.0	Korea	December 31
Woori H chemical 1st Co.,Ltd.(*2)	Asset securitization	0.0	0.0	Korea	December 31
HE the 1st Co.,Ltd.(*2)	Asset securitization	0.0	0.0	Korea	December 31
Woori Hub The 1st Co., Ltd.(*2)	Asset securitization	0.0	0.0	Korea	December 31
Woori K The 3rd Co., Ltd.(*2)	Asset securitization	0.0	0.0	Korea	December 31
Woori KF 1st Co., Ltd.(*2)	Asset securitization	0.0	0.0	Korea	December 31
WooriI TS 1st Co., Ltd.(*2)	Asset securitization	0.0	0.0	Korea	December 31
Woori H Square 1st Co., Ltd.(*2)	Asset securitization	0.0	0.0	Korea	December 31
Woori L Yongsan 1st Co., Ltd.(*2)	Asset securitization	0.0	0.0	Korea	December 31
Woori HC 5th Co., Ltd.(*2)	Asset securitization	0.0	0.0	Korea	December 31
Woori Ladena 1st Co., Ltd.(*2)	Asset securitization	0.0	0.0	Korea	December 31
Woori HR 1st Co., Ltd. (*2)	Asset securitization	0.0	0.0	Korea	December 31
Woori Lotte Dongtan 1st Co., Ltd. (*2)	Asset securitization	0.0	0.0	Korea	December 31
Woori HC 6th Co., Ltd.(*2)  Woori ECO 1st Co., Ltd.(*2)	Asset securitization	0.0 0.0	0.0	Korea Korea	December 31
Woori HO 1th Co., Ltd. (*2)	Asset securitization Asset securitization	<del></del>	0.0 0.0	Korea	December 31 December 31
Woori ESG 1st Co.,Ltd.(*2)	Asset securitization	_	0.0	Korea	December 31
Woori Osiria 1st Co.,Ltd. (*2)	Asset securitization	_	0.0	Korea	December 31
Woori Eco 2nd Co.,Ltd. (*2)	Asset securitization	_	0.0	Korea	December 31
Gangnam Landmark 2nd Co., Ltd.**2	Asset securitization Asset securitization	_	0.0	Korea	December 31
Woori HP the 1st co.,Ltd. <sup>(*2)</sup>	Asset securitization	_	0.0	Korea	December 31
G5 Pro Short-term Bond Investment	Securities investment		0.0	Horeu	December 31
Fund 13(*3)(*5)	and others	100.0	_	Korea	_
Heungkuk Global Private Placement Investment Trust No. 1(*3)	Securities investment and others	98.8	98.8	Korea	December 31
AI Partners UK Water Supply Private Placement Investment Trust No.2(*3)	Securities investment and others	97.3	97.3	England	December 31
Multi Asset Global Real Estate Investment	Securities investment and others	99.0	99.0	Korea	December 31
Trust No. 5-2 <sup>(*3)</sup> IGIS Australia Investment Trust	Securities investment				
No. 209-1 <sup>(*3)</sup>	and others Securities investment	99.4	99.4	Korea	December 31
Estate Investment Trust No. 26-2 <sup>(*3)</sup>	and others Securities investment	97.7	97.7	Korea	December 31
No.1-2 <sup>(*3)</sup>	and others Securities investment	98.8	98.8	Korea	December 31
Fund No. 316-1(*3)	and others Securities investment	99.3	99.3	Korea	December 31
Investment Trust No. 1(*3)	and others	98.1	98.3	Korea	December 31

Percentage of ownership (%)

			of ownership %)			
Subsidiaries	Main business	December 31, 2021	December 31, 2022	Location	Financial statements date of use	
Woori G Japan Blind General Type Private						
Real Estate Feeder Investment Trust	Securities investment					
No.1 <sup>(*3)</sup>	and others	99.8	99.9	Korea	December 31	
JB Airline Private Placement Investment	Securities investment					
Trust No.8(*3)	and others	97.0	97.0	Korea	December 31	
Kiwoom Harmony Private Placement	Securities investment					
Investment Trust No. 2 <sup>(*3)</sup>	and others	97.1	97.1	Korea	December 31	
Kiwoom Harmony Private Placement	Securities investment					
Investment Trust No. 1(*3)	and others	96.0	97.2	Korea	December 31	
Kiwoom Frontier Private Investment Trust	Securities investment					
No.23[Bond](*3)	and others	_	99.8	Korea	December 31	
Principal Guaranteed Trust(*4)	Trust	0.0	0.0	Korea	December 31	
Principal and Interest Guaranteed Trust <sup>(*4)</sup>	Trust	0.0	0.0	Korea	December 31	
Held by Multi Asset Global Real Estate						
Investment Trust No. 5-2	<b>.</b>	546	516	T 1	D 1 21	
MAGI No.5 LuxCo S.a.r.l.	Asset securitization	54.6	54.6	Luxembourg	December 31	
Held by MAGI No.5 LuxCo S.a.r.l. ADP 16 Brussels	Asset securitization	99.9	99.9	Dalainm	December 31	
Held by Woori Card Co., Ltd.	Asset securitization	99.9	99.9	Belgium	December 31	
TUTU Finance –WCI Myanmar Co., Ltd	Finance	100.0	100.0	Myanmar	December 31	
PT Woori Finance Indonesia Tbk	Finance		82.0	Indonesia	December 31	
Woori Card 2018-1 Securitization Specialty	1 mance		02.0	maonesia	December 31	
Co., Ltd.(*2)(*5)	Asset securitization	0.5	_	Korea	_	
Woori Card 2019-1 Asset Securitization						
Specialty Co., Ltd.(*2)	Asset securitization	0.5	0.5	Korea	December 31	
Woori Card 2020-1 Asset Securitization						
Specialty Co., Ltd.(*2)	Asset securitization	0.5	0.5	Korea	December 31	
Woori Card 2021-1 Asset Securitization						
Specialty Co., Ltd.(*2)	Asset securitization	0.5	0.5	Korea	December 31	
Woori Card 2022-1 Asset Securitization						
Specialty Co., Ltd. <sup>(*2)</sup>	Asset securitization	_	0.5	Korea	December 31	
Woori Card 2022-2 Asset Securitization			0.5	***	D 1 21	
Specialty Co., Ltd. <sup>(*2)</sup>	Asset securitization	_	0.5	Korea	December 31	
Specialty Co., Ltd.(*2)	Asset securitization		0.5	Korea	December 31	
Held by Woori Financial Capital Co., Ltd.	Asset securitization	_	0.5	Korea	December 31	
ACE Auto Invest the 48th Securitization						
Specialty Co., Ltd. (*2)(*5)	Asset securitization	1.0		Korea	_	
ACE Auto Invest the 49th Securitization						
Specialty Co., Ltd.(*2)(*5)	Asset securitization	1.0	_	Korea	_	
Specified Money Market Trust	Trust	_	100.0	Korea	December 31	
Held by Woori Investment Bank Co., Ltd.						
Seari First Securitization Specialty Co.,						
Ltd.(*2)(*5)	Asset securitization	5.0	_	Korea	_	
Seari Second Securitization Specialty Co.,						
Ltd.(*2)	Asset securitization	5.0	5.0	Korea	December 31	
Namjong 1st Securitization Specialty Co.,	<b>.</b>	5.0	5.0	17	D 1 21	
Ltd. (*2)	Asset securitization	5.0	5.0	Korea	December 31	
Ltd.(*2)	Asset securitization	5.0	5.0	Korea	December 31	
Bukgeum Second Securitization Specialty	Asset securitization	5.0	5.0	Korca	December 31	
Co., Ltd. <sup>(*2)</sup>	Asset securitization	5.0	5.0	Korea	December 31	
WS1909 Securitization Specialty Co.,	7 isset securitization	5.0	5.0	Roica	December 31	
Ltd.(*2)	Asset securitization	5.0	5.0	Korea	December 31	
WS2003 Securitization Specialty Co.,						
Ltd.(*2)	Asset securitization	5.0	5.0	Korea	December 31	
WS2006 Securitization Specialty Co.,						
Ltd.(*2)	Asset securitization	5.0	5.0	Korea	December 31	
WJ2008 Securitization Specialty Co.,		_				
Ltd.(*2)	Asset securitization	5.0	5.0	Korea	December 31	
WH2103 Securitization Specialty Co.,	A	5 A	5.0	17	D 1 21	
Ltd. (*2)	Asset securitization	5.0	5.0	Korea	December 31	
WN2103 Securitization Specialty Co., Ltd.(*2)	Asset securitization	5.0	5.0	Korea	December 31	
Liu.\ ~/	ASSET SECULITIZATION	5.0	3.0	Korea	December 31	

(%) **Financial** December 31, December 31, statements Subsidiaries Main business Location 2021 date of use WH2106 Securitization Specialty Co., 5.0 5.0 December 31 Asset securitization Korea One Punch Korea the 1st Co., Ltd.(\*2)(\*5) . . . . 0.0 Asset securitization Korea One Punch blue the 1st Co., Ltd.(\*2)(\*5) . . . . . 0.0 Asset securitization Korea One Punch red the 1st Co., Ltd.(\*2)(\*5) . . . . . . Asset securitization 0.0 Korea Held by Woori Asset Management Corp. Woori China Convertible Bond Hedging feeder Investment Trust H (debt-oriented Securities investment hybrid)(\*3) . . . . . . . . . . . 93.6 88.0 Korea December 31 and others Woori Together TDF 2025(\*3)(\*5) . . . . . . . . . Securities investment and others 34.1 Korea Woori Together TDF 2030(\*3)(\*5) . . . . . . . . . Securities investment and others 32.3 Korea Woori Together TDF 2035(\*3) . . . . . . . Securities investment and others 56.0 57.1 Korea December 31 Woori Together TDF 2040<sup>(\*3)</sup> ...... Securities investment 55.7 December 31 and others 58.3 Korea Woori Together TDF 2045(\*3) . . . . . Securities investment 65.2 69.3 Korea December 31 and others Woori Together TDF 2050(\*3) . . . . . . Securities investment 63.6 66.3 December 31 and others Korea Woori Star50 Feeder Fund(H)(\*3)(\*5) ...... Securities investment and others 44.8 Korea Woori BIG2 Plus Securities Investment Securities investment Trust (Balanced Bond)(\*3)(\*5) . . . . . . . . . . . and others 40.8 Korea Woori Franklin Technology Master Fund Securities investment and others 91.1 Korea December 31 Woori Franklin Technology Feeder Securities investment Fund (H)(\*3) . . . . . . . . . . . . 71.8 December 31 and others Korea Woori Together OCIO Target Return Master Securities investment 100.0 Korea December 31 and others Woori Together OCIO Target Return Feeder Securities investment  $\text{fund}^{(*3)^{-}}\dots\dots\dots\dots\dots\dots\dots\dots$ 81.2 Korea December 31 and others Woori High Graded Bond Target Return Securities investment 77.0 December 31 Fund  $1^{(*3)}$  ..... and others Korea Woori Multi Return Private Equity 2(\*3) . . . . Securities investment and others 30.9 Korea December 31 Held by Woori Financial F&I Co., Ltd. WI2203 Securitization Specialty Co., December 31 Asset securitization 5.0 Korea WM2203 Asset Securitization Specialty Co., Asset securitization 5.0 Korea December 31 WNI2206 Asset Securitization Specialty Co.,  $Ltd.^{(*2)} \quad \dots \qquad \dots \qquad \dots$ Asset securitization 5.0 Korea December 31 WI2209 Securitization Specialty Co., Ltd.(\*2) ..... 5.0 December 31 Asset securitization Korea WN2212 Asset Securitization Specialty Co., Asset securitization 5.0 Korea December 31 WK2212 Asset Securitization Specialty Co., Asset securitization 5.0 Korea December 31 Held by Woori Financial Capital Co., Ltd., Woori Private Equity Asset Management Co., Ltd. and Woori Investment Bank Co., Ltd.(\*6) Japanese Hotel Real Estate Private Equity Securities investment 100.0 and others 100.0 Korea December 31 Held by Woori Global Asset Management Co., Woori G Global Multi Asset Income Private Placement Investment Trust\_Class Securities investment and others 37.9 37.9 Korea December 31 Woori G Happy Retirement Lifetime Income TIF Mixed Asset Investment Trust[FoF] Securities investment

Percentage of ownership

and others

99.3

Korea

December 31

(%) **Financial** December 31, December 31, statements Subsidiaries Main business 2021 Location date of use Held by Woori Bank, Woori Financial Capital Co., Ltd., Woori Investment Bank Co., Ltd., Woori Savings Bank and Woori Private Equity Asset Management Co., Ltd.(\*6) Woori Innovative Growth Professional Investment Type Private Investment Trust Securities investment No.1(\*3) . . . . . 90.0 90.0 Korea December 31 and others Held by Woori Bank, Woori Financial Capital Co., Ltd., Woori Investment Bank Co., Ltd. and Woori Private Equity Asset Management Co., Woori Innovative Growth Professional Investment Type Private Investment Trust Securities investment 85.0 85.0 December 31 and others Korea Woori Innovative Growth New Deal Private Securities investment Investment Trust No.3(\*3) . . . . . . . . . . and others 94.3 94.3 Korea December 31 Held by Woori Bank, Woori Financial Capital Co., Ltd., and Woori Investment Bank Co., Ltd.(\*6) Woori G GP Commitment Loan General Securities investment Type Private Investment Trust No.1(\*3) . . . 100.0 100.0 December 31 and others Korea Woori G Equity Bridge Loan General Type Securities investment Private Investment Trust No.1(\*3) . . . . and others 0.08 80.0 Korea December 31 Woori G GP Commitment Loan General Securities investment Type Private Investment Trust No.2(\*3) and others 100.0 Korea December 31 Held by Woori Bank, Woori Financial Capital Co., Ltd., and Woori Global Asset Management Co., Ltd.(\*6) Woori G New Deal(Infrastructure) Policy Securities investment and others 70.0 Korea December 31 Held by Woori bank and Woori Investment Bank Heungkuk Woori Tech Company Private Securities investment Placement Investment Trust No. 1(\*3)(\*5) . . 100.0 and others Korea Woori Global Development Infrastructure Synergy Company Private Placement Securities investment Investment Trust No.1(\*3) . . . . . . . . . . . and others 100.0 100.0 Korea December 31 Woori G NorthAmerica Infra Private Securities investment Placement Investment Trust No. 1(\*3) . . . . 100.0 100.0 December 31 and others Korea Woori G Infrastructure New Deal Specialized Investment Private Equity Securities investment Investment Trust No. 1(\*3) . . . . . . . . and others 100.0 100.0 Korea December 31 Woori G General Type Private Real Estate Securities investment Investment Trust No.2(\*3) . . . . . . . . . . . . and others 30.1 30.1 Korea December 31 Woori G ESG Infrastructure Development General Type Private Investment Trust Securities investment No.1(\*3) and others 100.0 100.0 Korea December 31 Held by Woori bank(\*6) Woori G WooriBank Partners General Type Securities investment Private Investment Trust No.1(\*3) . . . . . . and others 92.6 92.6 Korea December 31 Securities investment Woori G General Type Private Real Estate Investment Trust No.1(\*3) . . . . . . . . . . . . and others 80.0 80.0 Korea December 31 Woori G Global Mid-market Secondary General Type Private Investment Trust Securities investment and others 80.0 80.0 Korea December 31 Woori G Woori Bank Partners Professional Securities investment 90.9 90.9 December 31 Type Private Investment Trust No. 2(\*3) . . and others Korea Woori G General Type Private Real Estate Securities investment Investment Trust No.5(\*3) . . . . . . . . . . . . and others 87.0 86.8 Korea December 31 Woori G Senior Loan General Type Private Securities investment Investment Trust No.2(\*3) . . . . . . . December 31 and others 50.0 Korea Woori G Government Bond MMF C/I(\*3) ... Securities investment

Percentage of ownership

and others

46.0

Korea

December 31

		(%)			Financial
Subsidiaries	Main business	December 31, 2021	December 31, 2022	Location	statements date of use
Held by Woori Bank and Woori Financial Capital		-			
Co., Ltd. <sup>(*6)</sup>					
Woori G Renewable New Deal Fund	Securities investment				
No.1 <sup>(*3)</sup>	and others	_	60.0	Korea	December 31
Woori G Equity Investment General Type	Securities investment				
Private Investment Trust No.1 <sup>(*3)</sup>	and others	_	100.0	Korea	December 31
Woori Busan Logistics Infra Private	a				
Placement Special Asset Investment	Securities investment		100.0	17	D 1 21
Trust(*3)	and others	_	100.0	Korea	December 31
Held by Woori Financial Capital Co., Ltd. (*6) Woori G Japan Private Placement Real					
Estate Feeder Investment Trust	Securities investment				
No.1-1 <sup>(*3)</sup>	and others	63.2	63.2	Korea	December 31
Held by Woori Bank, Woori Card Co., Woori					
Financial Capital Co., Ltd. and Woori					
Investment Bank Co., Ltd.(*6)					
Woori FG Digital Investment Fund	Securities investment				
1st <sup>(*3)</sup>	and others	_	100.0	Korea	December 31
Held by Woori G Japan Private Placement Real					
Estate Feeder Investment Trust No.1-1 and Woori G Japan Investment Trust No. 1-2(*6)					
Woori G Japan Private Placement Real					
Estate Master Investment Trust	Securities investment				
No.1 <sup>(*3)</sup>	and others	100.0	100.0	Korea	December 31
Held by Woori Financial Capital Co., Ltd. and					
Woori Investment Bank Co., Ltd.(*6)					
Woori G Japan Private Placement Real					
Estate Master Investment Trust	Securities investment	100.0	100.0	**	5 1 01
No.2-1 <sup>(*3)</sup>	and others	100.0	100.0	Korea	December 31
Held by Woori G Japan Private Placement Real Estate Master Investment Trust No.1 and					
Woori G Japan Private Placement Real Estate					
Master Investment Trust No.2-1(*6)					
Woori G Japan Private Placement Real					
Estate Master Investment Trust	Securities investment				
No.2 <sup>(*3)</sup>	and others	100.0	100.0	Korea	December 31
Held by Woori G Japan Private Placement Real					
Estate Master Investment Trust No.1	Other financial			_	
GK OK Chatan <sup>(*3)</sup>	services	99.9	99.9	Japan	October 31(*8)
Held by Woori G Japan Blind General Type					
Private Real Estate Feeder Investment Trust No.1 <sup>(*6)</sup>					
Woori G Private Placement Investment	Securities investment				
Trust No. 3 <sup>(*3)</sup>	and others	_	76.5	Korea	December 31
Held by Woori G Private Placement Investment			7 010	110101	December 51
Trust No. 3	Other financial				
GK Woorido	services	_	100.0	Japan	December 31
Held by Woori G Infrastructure New Deal					
General Type Private Investment Trust(*6)					
Woori Seoul- Chuncheon Highway Private	G				
Placement Special Asset Investment Trust			40.0	V	Dagger-1 21
No.1 <sup>(*3)</sup>	and others	_	48.0	Korea	December 31

Percentage of ownership

<sup>(\*1)</sup> Additional investment occurred made for year ended December 31, 2021.

<sup>(\*2)</sup> The entity is a structured entity for the purpose of asset securitization. Although the Group is not a majority shareholder, the Group 1) has the power over the investee, 2) is exposed to or has rights to variable returns from its involvement with the investee, and 3) has the ability to use its power to affect its returns.

<sup>(\*3)</sup> The entity is a structured entity for the purpose of investment in securities. Although the Group is not a majority shareholder, the Group 1) has the power over the investee, 2) is exposed to or has rights to variable returns from its involvement with the investee, and 3) has the ability to use its power to affect its returns.

<sup>(\*4)</sup> The entity is a 'money trust' under the Financial Investment Services and Capital Markets Act. Although the Group is not a majority shareholder, the Group 1) has the power over the investee, 2) is exposed to or has rights to variable returns from its involvement with the investee, and 3) has the ability to use its power to affect its returns.

<sup>(\*5)</sup> Companies are excluded from the consolidation as of December 31, 2022.

- (\*6) Determined that the Group controls the investees, considering the Group 1) has the power over the investee, 2) is exposed to or has rights to variable returns from its involvement with the investee, and 3) has the ability to use its power to affect its returns, by two or more subsidiaries' investment or operation.
- (\*7) During March 2021, the Parent company acquired a 100% equity of Woori Financial Savings Bank from the Parent company's subsidiary Woori Financial Capital Co., Ltd.
- (\*8) As the financial statements for the end of the reporting period were not available, the most recent financial statements available from the date of settlement were used.
- (\*9) The Parent company's subsidiary WB Finance Co., Ltd. has changed the name to WOORI BANK (CAMBODIA) PLC.
- (\*10) The Russia—Ukraine conflict has been escalated in February 2022, Russia is imposed to the international sanctions. Due to the sanctions, the lack of liquidity in the Russian foreign exchange market as well as the significant decline in value of the Rubles and the decline in value of Russian companies' securities are in progress. As a result, the Group may experience situations such as a decrease in value of financial assets or operating assets owned by the Group regarding the conflict, an increase in receivable payment terms, limitation to transfer funds, decrease in the profit. As of December 31, 2022, the Group expects such conflict and sanctions would have financial impacts on the business of AO Woori Bank, one of the subsidiaries, in the future. However, the Group cannot reasonably predict the financial impacts because it is very uncertain to estimate the impact on the Group's financial position and business performance.
- (\*11) As a master-feeder fund, it is the percentage of the feeder fund's ownership in the master fund.
- (3) The Group has not consolidated the following entities as of December 31, 2021 and 2022 despite having more than 50% ownership interest:

	As of December 31, 2021			
Subsidiaries	Location	Main Business	Percentage of ownership (%)	
Mirae Asset Maps Clean Water Private Equity Investment				
Trust 7th(*1)	Korea	Securities Investment	59.7	
Kiwoom Yonsei Private Equity Investment Trust(*1)	Korea	Securities Investment	88.9	
IGIS Europe Private Placement Real Estate Fund No. 163-2(*2)(*4)	Korea	Securities Investment	97.9	
IGIS Global Private Placement Real Estate Fund No. 148-1(*1)(*4)	Korea	Securities Investment	75.0	
IGIS Global Private Placement Real Estate Fund No. 148-2 <sup>(*1)(*4)</sup> Mirae Asset Seoul Ring Expressway Private Special Asset Fund	Korea	Securities Investment	75.0	
No. 1 <sup>(*1)(*4)</sup>	Korea	Securities Investment	66.7	
Hangkang Sewage Treatment Plant Fund(*1)(*4)	Korea	Securities Investment	55.6	
Korea Investment Pocheon Hwado Expressway Professional				
Investment Fund(*1)(*4)	Korea	Securities Investment	55.2	
Midas Global Private Placement Real Estate Investment Trust				
No. 7-2 <sup>(*1)(*4)</sup>	Korea	Securities Investment	58.3	
Together-Korea Government Private Pool Private Securities				
Investment Trust No.3(*3)(*4)	Korea	Securities Investment	100.0	
INMARK France Private Placement Investment Trust				
No. 18-1(*1)(*4)	Korea	Securities Investment	93.8	
Kiwoom Vibrato Private Placement Investment Trust				
1-W(EUR) <sup>(*2)(*4)</sup>	Korea	Securities Investment	99.5	
KOTAM Global Infrastructure Private Equity Investment Trust				
No. 1-4 <sup>(*2)</sup>	Korea	Securities Investment	99.7	
Hana UBS Class One Private Equity No. 3 C2 <sup>(*1)</sup>	Korea	Securities Investment	51.0	
Consus Gyeongju Green Private Equity Investment Trust				
No. 1 <sup>(*1)(*4)</sup>	Korea	Securities Investment	50.0	
Kiwoom Harmony Private Placement Investment Trust				
No. 3(*1)(*4)	Korea	Securities Investment	77.4	
Consus Solar Energy Private Placement Investment Truns				
No.1 <sup>(*1)</sup>	Korea	Securities Investment	50.0	

<sup>(\*1)</sup> The Group does not have power over the discretionary fund because the fund manager has the sole authority to decide the relevant activities of the investee. The fund manager's delegated power is exercised not only for the Group, but also for other investors as well. The Group does not have the power over the fund's activities even though it holds more than 50% of ownership interest.

<sup>(\*2)</sup> The Group does not have power over the fund of funds because the Group cannot decide the relevant activities of the fund through the related contract. The Group does not have the power over the fund's activities even though it holds more than 50% of ownership interest.

- (\*3) The Group does not have power over the stock market stabilization fund as the fund's relevant activities are determined by the management committee, over which the Group does not have substantial control. The Group does not have the power over the fund's activities even though it holds more than 50% of ownership interest.
- (\*4) In accordance with the amendment to the Capital Market Act, a specialized investment type private equity fund has been changed to a general private equity fund during the prior period.

	As of December 31, 2022			
Subsidiaries	Location	Main Business	Percentage of ownership (%)	
Mirae Asset Maps Clean Water Private Equity Investment Trust				
$7th^{(*1)}$	Korea	Securities Investment	57.6	
Kiwoom Yonsei Private Equity Investment Trust(*1)	Korea	Securities Investment	88.9	
IGIS Europe Private Placement Real Estate Fund No. 163-2 <sup>(*2)</sup>	Korea	Securities Investment	97.8	
IGIS Global Private Placement Real Estate Fund No. 148-1(*1)	Korea	Securities Investment	75.0	
IGIS Global Private Placement Real Estate Fund No. 148-2(*1)	Korea	Securities Investment	75.0	
Mirae Asset Seoul Ring Expressway Private Special Asset Fund				
No. 1 <sup>(*1)</sup>	Korea	Securities Investment	66.7	
Hangkang Sewage Treatment Plant Fund(*1)	Korea	Securities Investment	55.6	
Korea Investment Pocheon Hwado Expressway Professional				
Investment Fund(*1)	Korea	Securities Investment	55.2	
Midas Global Private Placement Real Estate Investment Trust				
No. 7-2(*1)	Korea	Securities Investment	58.3	
Together-Korea Government Private Pool Private Securities				
Investment Trust No.3(*3)	Korea	Securities Investment	100.0	
INMARK France Private Placement Investment Trust				
No. 18-1 <sup>(*1)</sup>	Korea	Securities Investment	93.8	
Kiwoom Vibrato Private Placement Investment Trust				
1-W(EUR) <sup>(*2)</sup>	Korea	Securities Investment	99.5	
KOTAM Global Infra Private Fund 1-4(*2)	Korea	Securities Investment	99.7	
UBSHana Class 1 Special Asset Investment Trust 3 Class C 2(*1)	Korea	Securities Investment	51.0	
Consus GyeongJu Green Specialized Private Special Asset				
Investment Trust 1 <sup>(*1)</sup>	Korea	Securities Investment	50.0	
Kiwoom Harmony Private Placement Investment Trust No. 3(*1)	Korea	Securities Investment	77.4	
Consus Solar Energy Private Placement Investment Truns				
No.1 <sup>(*1)</sup>	Korea	Securities Investment	50.0	
IGIS ESG General Private Investment Trust No.1(*1)	Korea	Securities Investment	60.0	
Kiwoom Aurora Geneal Type Private Placement Investment Trust				
No. 2 <sup>(*1)</sup>	Korea	Securities Investment	60.0	
NH-Amundi WSCP VIII Private Fund 2 <sup>(*1)</sup>	Korea	Securities Investment	65.2	
AI Partners Global Infrastructure Specialized Privately Placed				
Feeder Fund Trust No. 2 <sup>(*2)</sup>	Korea	Securities Investment	100.0	
Hangang new deal infra BTL fund 4 (HNBF4)(*1)	Korea	Securities Investment	60.0	
Rifa Qualified Investors Private Real Estate Investment Trust				
No.40 <sup>(*2)</sup>	Korea	Securities Investment	55.0	

<sup>(\*1)</sup> The Group does not have power over the discretionary fund because the fund manager has the sole authority to decide the relevant activities of the investee. The fund manager's delegated power is exercised not only for the Group, but also for other investors as well. The Group does not have the power over the fund's activities even though it holds more than 50% of ownership interest.

<sup>(\*2)</sup> The Group does not have power over the fund of funds because the Group cannot decide the relevant activities of the fund through the related contract. The Group does not have the power over the fund's activities even though it holds more than 50% of ownership interest.

<sup>(\*3)</sup> The Group does not have power over the stock market stabilization fund as the fund's relevant activities are determined by the management committee, over which the Group does not have substantial control. The Group does not have the power over the fund's activities even though it holds more than 50% of ownership interest.

(4) The summarized financial information of the major subsidiaries are as follows. The financial information of each subsidiary was prepared on the basis of consolidated financial statements. (Unit: Korean Won in millions):

	As of and for the year ended December 31, 2021				
Subsidiaries	Assets	Liabilities	Operating revenue	Net income (loss) attributable to owners	Comprehensive income (loss) attributable to owners
Woori Bank	415,976,627	391,360,200	24,311,964	2,330,433	2,478,754
Woori Card Co., Ltd	14,116,832	11,858,065	1,528,680	200,726	210,316
Woori Financial Capital Co.,					
Ltd	10,259,868	9,073,104	997,655	140,579	141,275
Woori Investment Bank Co.,					
Ltd	5,159,742	4,559,856	303,253	79,924	79,747
Woori Asset Trust Co., Ltd	254,773	86,418	94,228	40,300	40,263
Woori Asset Management Corp	151,651	30,144	33,343	8,244	8,458
Woori Savings Bank	1,444,508	1,222,888	85,813	15,315	14,926
Woori Credit Information Co.,					
Ltd	40,510	8,532	37,507	1,563	1,513
Woori Fund Service Co., Ltd	22,168	2,582	15,618	3,570	3,570
Woori Private Equity Asset					
Management Co., Ltd	42,790	4,652	4,230	2,209	2,113
Woori Global Asset Management					
Co., Ltd	35,265	7,579	11,785	(441)	(441)
Woori FIS Co., Ltd	105,138	59,225	270,393	1,587	8,010
Woori Finance Research Institute					
Co., Ltd	5,864	2,257	6,812	57	64

	As of and for the year ended December 31, 2022				
Subsidiaries	Assets	Liabilities	Operating revenue	Net income (loss) attributable to owners	Comprehensive income (loss) attributable to owners
Woori Bank	443,340,979	417,583,793	38,656,623	2,937,257	2,696,965
Woori Card Co., Ltd	16,118,967	13,692,456	1,845,296	204,385	199,397
Woori Financial Capital Co.,					
Ltd	12,581,473	11,040,754	1,323,574	183,328	189,765
Woori Investment Bank Co.,					
Ltd	5,657,191	4,982,410	406,157	91,794	92,379
Woori Asset Trust Co., Ltd	322,098	94,573	137,114	60,319	60,316
Woori Savings Bank	1,786,495	1,556,679	110,868	10,607	10,998
Woori Asset Management Corp	185,389	62,568	35,019	1,259	1,314
Woori Financial F&I Co., Ltd	336,141	135,562	8,086	867	867
Woori Credit Information Co.,					
Ltd	42,832	9,240	38,549	1,784	2,083
Woori Fund Service Co., Ltd	25,094	2,691	16,337	3,917	3,917
Woori Private Equity Asset					
Management Co., Ltd	94,434	4,672	7,830	1,902	1,872
Woori Global Asset Management					
Co., Ltd	34,988	7,090	13,711	211	211
Woori FIS Co., Ltd	112,117	54,645	296,235	1,069	11,559
Woori Finance Research Institute					
Co., Ltd	6,456	2,604	7,006	46	245

- (5) The financial support that the Group provides to consolidated structured entities is as follows:
  - Structured entity for asset securitization

The structured entity which is established for the purpose of securitization of project financing loans, corporate bonds, and other financial assets. The Group is involved with the structured entity through provision of credit facility over asset-backed commercial papers issued by the entity, originating loans directly to the structured entity, or purchasing 100% of the subordinated debts issued by the structured entity.

• Structured entity for the investments in securities

The structured entity is established for the purpose of investments in securities. The Group acquires beneficiary certificates through its contribution of funding to the structured entity by the Group, and it is exposed to the risk that it may not be able to recover its fund depending on the result of investment performance of asset managers of the structured entity.

• Money trust under the Financial Investment Services and Capital Markets Act

The Group provides with financial guarantee of principal and interest or solely principal to some of its trust products. Due to the financial guarantees, the Group may be obliged when the principal and interest or principal of the trust product sold is short of the guaranteed amount depending on the result of investment performance of the trust product.

As of December 31, 2021 and 2022, the Group provides 2,480,131 million Won and 231,309 million Won of credit facilities, respectively, for the structured entities mentioned above. As of December 31, 2021 and 2022, the purchase commitment amounts to 2,263,387 million Won and 2,545,164 million Won, respectively.

(6) The Group has entered into various agreements with structured entities such as asset securitization, structured finance, investment fund, and trust contract. The characteristics of interests and the nature of risks related to unconsolidated structured entities over which the Group does not have control in accordance with IFRS 10 are as follows:

The interests in unconsolidated structured entities that the Group hold are classified into asset securitization, structured finance, investment fund and real-estate trust, based on the nature and the purpose of each structured entity.

Unconsolidated structured entities classified as 'asset securitization' are entities that issue asset-backed securities, pay the principal and interest or distributes dividends on asset-backed securities through borrowings or profits from the management, operation and sale of securitized assets. The Group has been purchasing commitments of asset-backed securities or issuing asset-backed securities through credit grants, and recognizes related interest or fee revenue. There are entities that provide additional funding and conditional debt acquisition commitments before the Group's financial support, but the Group is still exposed to losses arising from the purchase of financial assets issued by the structured entities when it fails to renew the securities.

Unconsolidated structured entities classified as 'structured finance' include real estate project financing investment vehicle, social overhead capital companies, and special purpose companies for ship (aircraft) financing. Each entity is incorporated as a separate company with a limited purpose in order to efficiently pursue business goals and the fund is raised by equity investment or loans from financial institutions and participating institutions. 'Structured financing' is a financing method for large-scale risky business, with investments made based on feasibility of the specific business or project, instead of credit of business owner or physical collaterals. The investors receive profits from the operation of the business. The Group recognizes interest revenue, profit or loss from assessment or transactions of financial instruments, or dividend income. With regard to uncertainties involving structured financing, there are entities that provide financial support such as additional fund,

guarantees and prioritized credit grants prior to the Group's intervention, but the Group is exposed to possible losses due to loss of principal from reduction in investment value or irrecoverable loans arising from failure to collect scheduled cash flows and cessation of projects.

Unconsolidated structured entities classified as 'investment funds' include investment trusts and private equity funds. An investment trust orders the investment and operation of funds to the trust manager in accordance with trust contract with profits distributed to the investors. Private equity funds finances money required to acquire equity securities to enable direction of management and/or improvement of ownership structure, with profit distributed to the investors. The Group recognizes pro rata amount of dividend income as an investor in the same way as 'structured finance', and may be exposed to losses due to reduction in investment value. Investments in MMF(Money Market Funds) as of December 31, 2021 and 2022 are 853,140 million Won and 875,470 million Won, respectively, and there is no additional commitments for MMF.

'Real estate trust' is to be entrusted the underlying property for the purpose of managing, disposing, operating or developing from the consignor who owns the property and distributes the proceeds achieved through the trust to the beneficiary. When the consignee does not fulfill his or her important obligations in the trust contract or it is, in fact, difficult to run the business, the Group may be exposed to the threat of compensating the loss.

The total assets of the unconsolidated structured entity held by the Group, the carrying amount of the items recognized in the consolidated financial statements, the maximum loss exposure, and the losses from the unconsolidated structured entity are as follows. The maximum loss exposure includes the amount of investment recognized in the consolidated financial statements and the amount that is likely to be confirmed in the future when satisfies certain conditions by contracts such as purchase commitments, credit offerings.

	(unit : Korean Won in mil December 31, 2021			
	Asset securitization	Structured Finance	Investment Fund	Real-estate trust
Total asset of the unconsolidated structured entities Assets recognized in the consolidated financial statements related to the unconsolidated structured	15,640,521	94,969,317	94,675,732	1,398,508
entities	8,518,101	4,633,475	4,214,747	54,662
Financial assets at FVTPL	374,423	5,021	3,550,532	10,665
Financial assets at FVTOCI	3,878,882	46,478	_	_
Financial assets at amortized cost	4,264,626	4,579,367	71,662	43,997
Investments in joint ventures and associates	_		592,553	_
Derivative assets	170	2,609	_	_
Liabilities recognized in the consolidated financial statements related to the unconsolidated structured				
entities	677	1,536	_	2,964
Derivative liabilities	_	673	_	_
Other liabilities (provisions)	677	863	_	2,964
The maximum exposure to risks	8,739,034	5,728,977	4,221,072	115,212
Investment assets	8,518,101	4,633,475	4,214,747	54,662
Credit offerings and others	220,933	1,095,502	6,325	60,550
entities	183	11,872	71,309	282

(unit : Korean Won in millions) December 31, 2022

	December 31, 2022			
	Asset securitization	Structured Finance	Investment Fund	Real-estate trust
Total asset of the unconsolidated structured entities	14,856,750	82,724,618	132,264,383	1,316,930
Assets recognized in the consolidated financial				
statements related to the unconsolidated structured				
entities	8,051,144	5,537,836	4,964,712	40,073
Financial assets at FVTPL	258,552	6,642	4,397,416	10,480
Financial assets at FVTOCI	3,213,331	45,735	_	_
Financial assets at amortized cost	4,579,261	5,485,336	31,124	29,593
Investments in joint ventures and associates	_	_	535,427	_
Derivative assets	_	123	745	_
Liabilities recognized in the consolidated financial				
statements related to the unconsolidated structured				
entities	824	6,606	2,091	5,760
Derivative liabilities	729	4,975	2,091	_
Other liabilities (provisions)	95	1,631	_	5,760
The maximum exposure to risks	8,153,111	6,086,831	9,322,308	92,856
Investment assets	8,051,144	5,537,836	4,964,712	40,073
Purchase commitment	_	_	4,352,518	_
Credit offerings and others	101,967	548,995	5,078	52,783
Loss recognized on unconsolidated structured				
entities	_	17,388	113,976	1,040

(7) As of December 31, 2021 and 2022, the share of non-controlling interests on the net income and equity of subsidiaries in which non-controlling interests are significant are as follows (Unit: Korean Won in millions):

1) Accumulated non-controlling interests at the end of the reporting period

	<b>December 31, 2021</b>	<b>December 31, 2022</b>
Woori Bank <sup>(*)</sup>	2,555,166	2,344,816
Woori Investment Bank Co., Ltd	251,879	283,221
Woori Asset Trust Co., Ltd.	60,726	78,434
Woori Asset Management Corp	33,768	34,073
PT Bank Woori Saudara Indonesia 1906 Tbk	87,741	92,118
Wealth Development Bank	20,835	20,759
PT Woori Finance Indonesia Tbk	_	13,964

<sup>(\*)</sup> Hybrid securities issued by Woori Bank

## 2) Net income attributable to non-controlling interests

	For the years ended December 31		
	2020	2021	2022
Woori Bank <sup>(*)</sup>	162,362	144,923	113,995
Woori Financial Capital Co., Ltd	1,466	17,949	_
Woori Investment Bank Co., Ltd.	25,643	33,274	38,319
Woori Asset Trust Co., Ltd	9,732	11,366	18,074
Woori Asset Management Corp	1,699	2,341	290
PT Bank Woori Saudara Indonesia 1906 Tbk	6,040	8,619	10,806
Wealth Development Bank	1,130	928	401
PT Woori Finance Indonesia Tbk.	_	_	379

<sup>(\*)</sup> Distribution of the hybrid securities issued by Woori Bank

## 3) Dividends to non-controlling interests

	For the years ended December 31		
	2020	2021	2022
Woori Bank <sup>(*)</sup>	162,362	144,923	113,995
Woori Financial Capital Co., Ltd		4,121	
Woori Investment Bank Co., Ltd		3,610	7,219
Woori Asset Trust Co., Ltd	365	365	365
PT Bank Woori Saudara Indonesia 1906 Tbk	1,669	1,262	2,330

<sup>(\*)</sup> Distribution of the hybrid securities issued by Woori Bank

## 2. BASIS OF PREPARATION AND SIGNIFICANT ACCOUNTING POLICIES

## (1) Basis of presentation

The Group's consolidated financial statements are prepared in accordance with Financial Reporting Standards ("IFRS") as issued by the International Accounting Standards Board ("IASB").

The Group operates primarily in Korea and its official accounting records are maintained in Korean Won. The United States dollar ("U.S. dollar" or "US\$" or "USD") amounts are provided herein as supplementary information solely for the convenience of readers outside Korea. Korean Won amounts are expressed in U.S. Dollars at the rate of 1,260.2 Korean Won to US\$1.00, the noon buying exchange rate in effect on December 31, 2022, as quoted by the Federal Reserve Bank of New York in the United States. Such convenience translation into U.S. Dollars should not be construed as representations that Korean Won amounts have been, could have been, or could in the future be, converted at this or any other rate of exchange.

The principal accounting policies applied in the preparation of these consolidated financial statements are set out below. These policies have been consistently applied to all the years presented, unless otherwise stated.

The consolidated financial statements, as described in following paragraphs of accounting policy, are prepared at the end of each reporting period in historical cost basis, except for certain non-current assets and financial assets that are either revalued or measured in fair value. Historical cost is generally measured at the fair value of consideration given to acquire assets.

Meanwhile, the consolidated financial statements of the Group were approved by the Board of Directors on March 3, 2023, and the final approval was made in the annual general shareholders' meeting on March 24, 2023.

1) The standards and interpretations that are newly adopted by the Group during the current period, and the changes in accounting policies thereof are as follows:

## ① IAS 7 'Statement of cash flow'—Cash and cash equivalents

The Group did not classify deposits with restrictions under relevant regulations, such as reserve deposits, as cash and cash equivalents. However, in accordance of the IFRS Interpretation Committee's agenda decision in April 2022 'Demand deposits restricted on use under contracts with third parties' and reply to IFRS inquiries 'whether the reserve deposit should be classified as cash and cash equivalents' the policy was changed to classifying the reserve deposits with restrictions under relevant regulations which meet the criteria of demand deposits as cash and cash equivalent and applied the modification retrospectively. The impact of this change in accounting policy is as follows:

## a) Impact on the statements of financial position

	<b>December 31, 2022</b>	<b>December 31, 2021</b>	<b>January 1, 2021</b>
Increase in cash and cash equivalents	22,965,162	13,047,255	7,352,253
Decrease in loans and other financial assets			
at amortized cost	(22,965,162)	(13,047,255)	(7,352,253)

## b) Impact on the statements of cash flow

	<b>December 31, 2022</b>	<b>December 31, 2021</b>
Increase in cash flows from operating activities	9,981,310	5,600,710
Increase in exchange rate changes on cash and cash		
equivalents denominated in foreign currencies	(63,403)	94,292
Net increase in cash and cash equivalents	9,981,310	5,600,710
Increase in cash and cash equivalents, the beginning		
of the year	13,047,255	7,352,253
Increase in cash and cash equivalents, the end of		
the year	22,965,162	13,047,255

② Amendments to IFRS 3 'Business Combination'—Reference to the Conceptual Framework

The amendments update a reference of definition of assets and liabilities qualify for recognition in revised Conceptual Framework for Financial Reporting. However, the amendments add an exception for the recognition of liabilities and contingent liabilities within the scope of IAS 37 Provisions, Contingent Liabilities and Contingent Assets, and IFRIC 21 Levies. The amendments also confirm that contingent assets should not be recognized at the acquisition date. The amendment does not have a significant impact on the financial statements.

3 Amendments to IAS 37 'Provisions, Contingent Liabilities and Contingent Assets'—Onerous Contracts: Cost of Fulfilling a Contract

The amendments clarify that the direct costs of fulfilling a contract include both the incremental costs of fulfilling the contract and an allocation of other costs directly related to fulfilling contracts when assessing whether the contract is onerous. The amendment does not have a significant impact on the financial statements.

4 Amendments to IAS 16 'Property, Plant and Equipment'—Proceeds before intended use

The amendments prohibit an entity from deducting from the cost of an item of property, plant and equipment any proceeds from selling items produced while the entity is preparing the asset for its intended use. Instead, the entity will recognize the proceeds from selling such items, and the costs of producing those items, in profit or loss. The amendment does not have a significant impact on the financial statements.

⑤ Annual Improvements to IFRS 2018-2020

The annual improvement includes some amendments to IFRS 1 'First time Adoption of Korean International Financial Reporting Standards', IFRS 9 'Financial Instrument's, IFRS 16 'Lease', IAS 41 'Agriculture'.

These amendments do not have a significant impact on the consolidated financial statements.

- IFRS 1 'First time Adoption of Korean International Financial Reporting Standards'— Subsidiaries that are first-time adopters
- IFRS 9 'Financial Instrument's—Fees related to the 10% test for derecognition of financial liabilities
- IFRS 16 'Lease'—Delete the contents of the lease improvement reimbursement amount.
- IAS 41 'Agriculture'—Measuring fair value
- 2) The details of IFRSs that have been issued and published as of December 31,2022 but have not yet reached the effective date, and which the Group have not been early adopted by the Group are as follows:
  - ① Amendments to IAS 1 'Presentation of Financial Statements'—Classification of Liabilities as Current or Non-current

The amendments clarify that liabilities are classified as either current or non-current, depending on the substantive rights that exist at the end of the reporting period. Classification is unaffected by the likelihood that an entity will exercise right to defer settlement of the liability or the expectations of management. Also, the settlement of liability include the transfer of the entity's own equity instruments, however, it would be excluded if an option to settle them by the entity's own equity instruments if compound financial instruments is met the definition of equity instruments and recognized separately from the liability. The amendments should be applied for annual periods beginning on or after January 1, 2024, and earlier application is permitted. The Group does not expect that these amendments have a significant impact on the financial statements.

- ② Amendments to IAS 1 'Presentation of Financial Statements'—Disclosure of Accounting Policy 'IFRS Practice Statement 2' has been amended to define and disclose important accounting policies and to provide guidance on how to apply the concept of importance. These amendments apply for annual periods beginning on or after January 1,2023, and early application is permitted. The Group does not expect that these amendments have a significant impact on the financial statements.
- 3 Amendments to IAS 1 'Presentation of Financial Statements'—Disclosure of valuation gains or losses on financial liabilities with condition to adjust exercise price
  - The amendments require disclosure of valuation gains or losses (limited to those recognized in the profit or loss) of the conversion options or warrants (or financial liabilities including them), if all or part of the financial instrument with exercise price that is adjusted depending on the issuer's share price change is classified as financial liability as defined in paragraph 11 (2) of IAS 32. These amendments apply for annual periods beginning on or after January 1, 2023, and early application is permitted. The Group does not expect that these amendments have a significant impact on the financial statements.
- 4 Amendments to IAS 8 'Accounting Policies, Changes in Accounting Estimates and Errors'— Definition of Accounting Estimates
  - The amendments have defined accounting estimates and clarified how to distinguish them from changes in accounting policies. These amendments apply for annual periods beginning on or after January 1, 2023, and early application is permitted. The Group does not expect that these amendments have a significant impact on the financial statements.
- 5 Amendments to IAS 12 '*Income Taxes*'—deferred tax related to assets and liabilities arising from a single transaction
  - Additional phrase 'the temporary difference to be added and the temporary difference to be deducted do not occur in the same amount' has been added to initial recognition exception for a transaction in which an asset or liability is initially recognized. These amendments apply for annual periods beginning on or after January 1, 2023, and early application is permitted. The Group does not expect that these amendments have a significant impact on the financial statements.

The above enacted or amended standards will not have a significant impact on the Group.

## (2) Basis of consolidated financial statement presentation

The consolidated financial statements consist of the financial statements of the parent company and the entities (including structured entities) controlled by the parent company (or its subsidiaries, which is the "Group"). Control is achieved where the Group 1) has the power over the investee, 2) is exposed, or has rights, to variable returns from its involvement with the investee, and 3) able to use its power to affect its returns. The Group reassesses whether it controls an investee if facts and circumstances indicate that there are changes to one or more of the three elements of control listed above.

When the Group has less than most of the voting rights of an investee, it has power over the investee when the voting rights are sufficient to give it the practical ability to direct the relevant activities of the investee unilaterally. The Group considers all relevant facts and circumstances in assessing whether the Group's voting rights in an investee are enough to give it power, including:

- The relative size of the Group's holding of voting rights and dispersion of holdings of the other vote holders:
- Potential voting rights held by the Group, other vote holders or other parties;
- Rights arising from other contractual arrangements;
- Any additional facts and circumstances that indicate that the Group has, or does not have, the current
  ability to direct the relevant activities at the time that decisions need to be made, including voting
  patterns at previous shareholders' meetings.

Income and expenses of subsidiaries acquired or disposed of during the year are included in the consolidated statement of comprehensive income from the date the Group gains control until the date when the Group ceases to control the subsidiary. The carrying amount of the non-controlling interest after the acquisition is the amount initially recognized plus the amount of proportionate interest of the non-controlling interest in the changes in equity since the acquisition. Total comprehensive income of subsidiaries is attributed to the owner of the Group and to the non-controlling interests even if this results in the non-controlling interests having a negative (-) balance.

When necessary, adjustments are made to the financial statements of subsidiaries to bring their accounting policies into line with the Group's accounting policies.

All intra-group transactions and, related assets and liabilities, income and expenses are eliminated in full on consolidation.

Changes in the Group's ownership interests in subsidiaries that do not result in the Group losing control over the subsidiaries are accounted for as equity transactions. The carrying amount of the Group's interests and the non-controlling interests are adjusted to reflect the changes in their relative interests in the subsidiaries. Any difference between the amount by which the non-controlling interests are adjusted and the fair value of the consideration paid or received is recognized directly in equity and attributed to the owner of the parent company.

When the Group loses control of a subsidiary, a gain or loss on disposal is calculated as the difference between (i) the aggregate of the fair value of the consideration received and the fair value of any retained interest and (ii) the previous carrying amount of the assets (including goodwill), and liabilities of the subsidiary and any non-controlling interests. When assets of the subsidiary are carried at revalued amounts or fair values and the related cumulative gain or loss has been recognized in other comprehensive income and accumulated in equity, the amounts previously recognized in other comprehensive income and accumulated in equity are accounted for as if the Group had directly disposed of the relevant assets (i.e. reclassified to profit or loss or transferred directly to retained earnings). The fair value of any investment retained in the former subsidiary at the date when control is lost is recognized as the fair value on initial recognition for subsequent accounting under IFRS 9 Financial Instruments or, when applicable, the cost on initial recognition of an investment in an associate or a joint venture.

## (3) Business combinations

Acquisitions of subsidiaries and businesses are accounted for using the acquisition method. The consideration transferred in a business combination is measured as the sum of the acquisition-date fair values of the assets transferred by the Group in exchange for control of the acquiree, liabilities assumed by the Group for the former owners of the acquiree and the equity interests issued by the Group. Acquisition-related costs are generally recognized in profit or loss as incurred.

At the acquisition date, the acquiree's identifiable acquires assets, liabilities and contingent liabilities are recognized at their fair value, except for the followings:

- Deferred tax assets or liabilities and assets or liabilities related to employee benefit arrangements are recognized and measured in accordance with IAS 12 Income Taxes and IAS 19 Employee Benefits, respectively;
- Liabilities or equity instruments related to share-based payment arrangements of the acquiree or share-based payment arrangements of the Group entered into to replace share-based payment arrangements of the acquiree are measured in accordance with IFRS 2 Share-based Payment at the acquisition date; and
- Non-current assets (or disposal groups) that are classified as held for sale are measured in accordance with IFRS 5 Non-current Assets Held for Sale and Discontinued Operations

Any excess of the sum of the consideration transferred, the amount of any non-controlling interest in the acquiree and the fair value of the Group's previously held equity interest (if any) in the acquiree over the net of identifiable assets and liabilities assumed of the acquiree at the acquisition date is recognized as goodwill.

If, after reassessment, the Group's interest in the fair value of the acquiree's identifiable net assets exceeds the sum of the consideration transferred, the amount of any non-controlling interest in the acquiree and the fair value of the acquirer's previously held equity interest in the acquiree (if any), the excess is recognized immediately in net income as a bargain purchase gain.

The subsidiary's non-controlling interests are identified separately from the Group's equity. If the element of the non-controlling interest in the acquiree is the current interest at the acquisition date and the holder is entitled to a proportional share of the entity's net assets, the non-controlling interest can be measured in 1) fair value or 2) proportionate share of the current equity instrument of the amount recognized for the acquiree's identifiable net assets at the acquisition date. The selection of these metrics is made for each acquisition transaction. All other non-controlling interests are measured at fair value at the acquisition date. The carrying amount of the non-controlling interest after acquisition reflects the proportional interest of the non-controlling interest in changes in equity after acquisition in the initial recognition amount. Even if the non-controlling interest is a negative (-) balance, total comprehensive income is attributed to the non-controlling interest.

When the consideration transferred by the Group in a business combination includes assets or liabilities resulting from a contingent consideration arrangement, the contingent consideration is measured at its acquisition-date fair value and included as part of the consideration transferred in a business combination. Changes in the fair value of the contingent consideration that qualify as measurement period adjustments are adjusted retrospectively, with corresponding adjustments against goodwill. Measurement period adjustments are adjustments that arise from additional information obtained during the 'measurement period' (which cannot exceed one year from the acquisition date) about facts and circumstances that existed at the acquisition date.

The subsequent accounting for changes in the fair value of the contingent consideration that do not qualify as measurement period adjustments depends on how the contingent consideration is classified. Contingent consideration that is classified as equity is not remeasured at subsequent reporting dates and its subsequent settlement is accounted for within equity. Contingent consideration other than the above is remeasured at subsequent reporting dates as appropriate, with the corresponding gain or loss being recognized in profit or loss.

When a business combination is achieved in stages, the Group's previously held equity interest in the acquiree is remeasured at fair value at the acquisition date (i.e., the date when the Group obtains control) and the resulting gain or loss, if any, is recognized in net income (or other comprehensive income, if applicable). Amounts arising from changes in value of interests in the acquiree prior to the acquisition date that have previously been recognized in other comprehensive income are recognized, identical to the treatment assuming interests are sold directly.

If the initial accounting for a business combination is not completed by the end of the reporting period in which the business combination occurred, the Group reports in consolidated financial statements the provisional amount of items that have not been accounted for. If there is new information about the facts and circumstances that existed as of the acquisition date during the measurement period (see above), the Group retrospectively adjusts the provisional amounts recognized at the acquisition date or recognizes additional assets and liabilities to reflect the information that would have affected the measurement of the amount recognized at the acquisition date if it had already known at the acquisition date.

## (4) Investments in joint ventures and associates

An associate is an entity over which the Group has significant influence, and that is not a subsidiary or a joint venture. Significant influence is the power to participate in making decision on the financial and operating policy of the investee but is not control or joint control over those policies.

A joint venture is a joint arrangement whereby the parties that have joint control of the arrangement have rights to net assets relating to the arrangement. Joint control is the contractually agreed sharing of control of an arrangement, which exists only when decisions about the relevant activities require the unanimous consent of the parties sharing control.

The net income of current period and the assets and liabilities of the joint ventures and associates are incorporated in these consolidated financial statements using the equity method of accounting, except when the investment is classified as held for sale, in which case it is accounted for in accordance with IFRS 5 Non-current Assets Held for Sale and Discontinued Operations. Under the equity method, an investment in the joint ventures and associates is initially recognized in the consolidated statements of financial position at cost and adjusted thereafter to recognize the Group's share of the net assets of the joint ventures and associates and any impairment. When the Group's share of losses of the joint ventures and associates exceeds the Group's interest in the associate, the Group discontinues recognizing its share of further losses. Additional losses are recognized only to the extent that the Group has incurred legal or constructive obligations or made payments on behalf of the joint ventures and associates.

Investment in joint ventures and associates are accounted for and applied with the equity method from the time the investee becomes an associate or a joint venture.

Any excess of the cost of acquisition over the Group's share of the net fair value of the identifiable assets, liabilities and contingent liabilities of the joint ventures and associates recognized at the date of acquisition is recognized as goodwill, which is included within the carrying amount of the investment. Any excess of the Group's share of the net fair value of the identifiable assets, liabilities and contingent liabilities over the cost of acquisition exists after the review, it is recognized immediately in net income.

The requirements of IAS 28—Investments in Associates and Joint Ventures to determine whether there has been a loss event are applied to identify whether it is necessary to recognize any impairment loss with respect to the Group's investment in the joint ventures and associates. When necessary, the entire carrying amount of the investment (including goodwill) is tested for impairment in accordance with IAS 36—Impairment of Assets as a single asset by comparing its recoverable amount (higher of value in use and fair value less costs to sell) with its carrying amount. Any impairment loss recognized is not allocated to any asset (including goodwill), which forms part of the carrying amount of the investment. Any reversal of that impairment loss is recognized in accordance with IAS 36 to the extent that the recoverable amount of the investment subsequently increases.

The Group ceases to use the equity method from the time it fails meet the definition of an associate or a joint venture. Upon a loss of significant influence over the joint ventures and associates, the Group discontinues the use of the equity method and measures at fair value of any investment that the Group retains in the former joint ventures and associates from the date when the Group loses significant influence. The fair value of the

investment is regarded as its fair value on initial recognition as a financial asset in accordance with IFRS 9 Financial Instruments; Recognition and Measurement. The Group recognized differences between the carrying amount and fair value in net income and it is included in determination of the gain or loss on disposal of joint ventures and associates. The Group accounts for all amounts recognized in other comprehensive income in relation to that joint ventures and associates on the same basis as would be required if the joint ventures and associates had directly disposed of the related assets or liabilities. Therefore, if a gain or loss previously recognized in other comprehensive income by an associate or a joint venture would be reclassified to net income on the disposal of the related assets or liabilities, the Group reclassifies the gain or loss from equity to net income as a reclassification adjustment.

When the Group's ownership of interest in an associate or a joint venture decreases but the Group continues to maintain significant influence over an associate or a joint venture, the Group reclassifies to profit or loss the proportion of the gain or loss that had previously been recognized in other comprehensive income relating to that decrease in ownership interest if the gain or loss would be reclassified to profit or loss on the disposal of the related assets or liabilities. Meanwhile, if interest on associate or joint venture meets the definition of non-current asset held for sale, it is accounted for in accordance with IFRS 5.

The Group continues to use the equity method when an investment in an associate becomes an investment in a joint venture or an investment in a joint venture becomes an investment in an associate. There is no remeasurement to fair value upon such changes in ownership interests.

When the Group transacts with an associate or a joint venture of the Group, profits and losses resulting from the transactions with the associate or joint venture are recognized in the Group's consolidated financial statements only to the extent of interests in the associate or joint venture that are not related to the Group.

The Group applies IFRS 9 Financial Instruments, including the impairment requirements, to its long-term investment interests in associates and joint ventures that form part of its net investment without applying the equity method. In addition, when applying IFRS 9 to long-term investments, the Group does not consider adjustments to the carrying amount required by IAS 28. Examples of such adjustments include an impairment assessment or an adjustment to the carrying amount of the long-term investment interest resulting from the allocation of losses to the investee in accordance with IAS 28.

## (5) Investment in joint operation

A joint operation is a joint arrangement whereby the parties that have joint control of the arrangement have rights to the assets, and obligations for the liabilities, relating to the arrangement. Joint control is the contractually agreed sharing of control of an arrangement, which exists only when decisions about the relevant activities require the unanimous consent of the parties sharing control.

When the Group operates as a joint operator, it recognizes in relation to its interest in a joint operation:

- its assets, including its share of any assets held jointly;
- its liabilities, including its share of any liabilities incurred jointly;
- its revenue from the sale of its share of the output arising from the joint operation;
- its share of the revenue from the sale of the output by the joint operation;
- its expenses, including its share of any expenses incurred jointly.

The Group accounts for the assets, liabilities, revenues and expenses that correspond to its interest in a joint operation in accordance with the IFRSs and IASs applicable to the specific assets, liabilities, revenues and expenses.

When the Group enters into a transaction with a joint operation in which it is a joint operator, such as a sale or contribution of assets, it is conducting the transaction with the other parties to the joint operation and, as such, the Group recognizes gains and losses resulting from such a transaction only to the extent of the other parties' interests in the joint operation.

When the Group enters a transaction with a joint operation in which it is a joint operator, such as a purchase of assets, it does not recognize proportional share of profit or loss until the asset is sold to a third party.

## (6) Revenue recognition

IFRS 15 requires the recognition of revenues based on transaction price allocated to the performance obligation when or as the Group performs that obligation to the customer. Revenues other than those from contracts with customers, such as interest revenue and loan origination fee (cost), are recognized through effective interest rate method.

## 1) Revenues from contracts with customers

The Group recognizes revenue when the Group satisfies a performance obligation by transferring a promised good or service to a customer. When a performance obligation is satisfied, the Group shall recognize as a revenue the amount of the transaction price that is allocated to that performance obligation. The transaction price is the amount of consideration to which the Group expects to be entitled in exchange for transferring promised goods or services to a customer, excluding amounts collected on behalf of third parties.

The Group is recognizing revenue by major sources as shown below:

① Fees and commission received for brokerage

The fees and commission received for agency are the amount of consideration or fee expected to be entitled to receive in return for providing goods or services to the other parties with the Group acting as an agency, such as in the case of sales of bancassurance and beneficiary certificates. Most of these fees and commission received for brokerage are from the business activities relevant to Banking segment.

② Fees and commission received related to credit

The fees and commission received related to credit mainly include the lending fees received from the loan activity and the fees received in the L/C transactions. Except for the fees and commission accounted for in calculating the effective interest rate, it is generally recognized when the performance obligation has been performed. Most of these fees and commission received related to credit are from the business activities relevant to Banking, Credit card and Investment banking segment.

3 Fees and commission received for electronic finance

The fees and commission received for electronic finance include fees received in return for providing various kinds of electronic financial services through firm-banking and CMS. These fees are recognized as revenue immediately upon the completion of services. Most of these fees and commission received for electronic finance are from the business activities relevant to Banking and Investment banking segment.

Fees and commission received on foreign exchange handling

The fees and commission received on foreign exchange handling consist of various fees incurred when transferring foreign currency. The point of processing the customer's request is the time when performance obligation is satisfied, and revenue is immediately recognized when fees and commission are received after requests are processed. The business activities relevant to these fees and commission received on foreign exchange handling are substantially attributable to Banking segment.

## S Fees and commission received on foreign exchange

The fees and commission received on foreign exchange consist of fees related to the issuance of various certificates, such as exchange, import and export performance certificates, purchase certificates, etc. The point of processing the customer's request is the time when performance obligation is satisfied, and revenue is immediately recognized when fees and commission are received after requests are processed. The business activities relevant to these fees and commission received on foreign exchange are substantially attributable to Banking segment.

## 6 Fees and commission received for guarantee

The fees and commission received for guarantee include the fees received for the various warranties. The activities related to the warranty consist mainly of performance obligations satisfied over time and fees and commission are recognized over the guarantee period. The business activities relevant to these fees and commission received for guarantee are substantially attributable to Banking segment.

## Tees and commission received on credit card

The fees and commission received on credit card consist mainly of merchant account fees and annual fees.

The Group recognizes merchant account fees by multiplying agreed commission rate to the amount paid by using the credit card. The annual fees are performance obligation satisfied over time and are recognized over agreed periods after the annual fees are paid in advance. The business activities relevant to these fees and commission received on credit card are substantially attributable to Credit cards segment.

## Tees and commission received on securities business

The fees and commission received on securities business consist mainly of fees and commission for the sale of beneficiary certificates, and these fees are recognized when the beneficiary certificates are sold to customers. The business activities relevant to these fees and commission received on securities business are substantially attributable to Banking and Investment banking segment.

## 9 Fees and commission from trust management

The fees and commission from trust management consist of fees and commission received in return for the operation and management services for entrusted assets. These operation and management services are performance obligations satisfied over time, and revenue is recognized over the service period. Among the fees and commission from trust management, variable considerations such as profit commission that are affected by the value of entrusted assets and base return of the future periods are recognized as revenue when limitations to the estimates are lifted. Most of these fees and commission received for brokerage are from the business activities relevant to Banking segment.

## Fees and commission received on credit Information

The fees and commission received on credit Information are composed of the fees and commission received by performing credit investigation and proxy collection services. Credit investigation fees and commission are the amount received in return for verifying the information requested by the customer and are recognized as revenue at the time the verification is completed. Proxy collection service fees are recognized by multiplying the applicable rate to the collected amount at the time when collection services are completed. Most of these fees and commission received for brokerage are from the business activities relevant to other segments.

## 10 Other fees

Other fees are usually fees related to remittances, but include fees related to various other services provided to customers by the Group. These fees are recognized when transactions occur at the customers' request and services are provided, at the same time when commission are received. These other fees occur across all operating segments.

## 2) Revenues from sources other than contracts with customers

## ① Interest income

Interest income on financial assets measured at FVTOCI and financial assets at amortized costs is measured using the effective interest method.

The effective interest method is a method of calculating the amortized cost of a debt instrument and of allocating the interest income over the expected life of the asset. The effective interest rate is the rate that exactly discounts estimated future cash flows to the instrument's initial unamortized cost over the expected period, or shorter if appropriate. Future cash flows include commissions and cost of reward points (limited to the primary component of effective interest rate) and other premiums or discounts that are paid or received between the contractual parties when calculating the effective interest rate, but does not include expected credit losses. All contractual terms of a financial instrument are considered when estimating future cash flows.

For purchased or originated credit-impaired financial assets, interest revenue is recognized by applying the credit-adjusted effective interest rate to the amortized cost of the financial asset from initial recognition. Even if the financial asset is no longer impaired in the subsequent periods due to credit improvement, the basis of interest revenue calculation is not changed from amortized cost to unamortized cost of the financial assets.

## ② Loan origination fees and costs

The commission fees earned on loans, which is part of the effective interest of loans, is accounted for as deferred origination fees. Incremental costs related to the origination of loans are accounted for as deferred origination fees and is being added or deducted to/from interest income on loans using effective interest rate method.

## 3) Dividend income

Dividend income is recognized when the right to receive dividends as a shareholder is confirmed. Dividend income is recognized as an appropriate item of profit or loss in the statement of comprehensive income according to the classification of financial instruments.

## (7) Accounting for foreign currencies

The Group's consolidated financial statements are presented in Korean Won, which is the functional currency of the Group. At the end of each reporting period, monetary assets and liabilities denominated in foreign currencies are translated to the functional currency at its prevailing exchange rates at the date. The effective portion of the changes in fair value of a derivative that qualifies as a cash flow hedge and the foreign exchange differences on monetary items that form part of net investment in foreign operations are recognized in equity.

Assets and liabilities of the foreign operations subject to consolidation are translated into Korean Won at foreign exchange rates at the end of the reporting period. Except for situations in which it is required to use exchange rates at the date of transaction due to significant changes in exchange rates during the period, items that belong to profit or loss shall be measured by average exchange rate, with foreign exchange differences recognized as other comprehensive income and added to equity (allocated to non-controlling interests, if appropriate). When foreign operations are disposed, the controlling interest's share of accumulated foreign exchange differences related to such foreign operations will be reclassified to profit or loss, while non-controlling interest's corresponding share will not be reclassified.

Adjustments to fair value of identifiable assets and liabilities, and goodwill arising from the acquisition of foreign operations will be treated as assets and liabilities of the corresponding foreign operation, and translated using foreign exchange rates at the end of the period. The foreign exchange differences are recognized in other comprehensive income.

## (8) Cash and cash equivalents

The Group is classifying cash on hand, demand deposits, interest-earning deposits with original maturities of up to three months on acquisition date, and highly liquid investments that are readily convertible to known amounts of cash and subject to an insignificant risk of changes in value as cash and cash equivalents.

## (9) Financial assets and financial liabilities

## 1) Financial assets

A regular way purchase or sale of financial assets is recognized or derecognized, as applicable, using trade date accounting or settlement date accounting. A regular way purchase or sale is a purchase or sale of a financial asset under a contract whose term requires delivery of the asset within the time frame established generally by regulation or convention in the marketplace concerned.

On initial recognition, financial assets are classified into financial assets at FVTPL, financial assets at FVTOCI, and financial assets at amortized cost according to its business model and contractual cash flows.

## a) Business model

The Group evaluates the way business is being managed, and the purpose of the business model for managing a financial asset best reflects the way information is provided to the management at its portfolio level. Such information considers the following:

- The accounting policies and purpose specified for the portfolio, the actual operation of such policies.
   This includes strategy of the management focusing on the receipt of contractual interest revenue,
   maintaining a certain level of interest income, matching the duration of financial assets and the duration
   of corresponding liabilities to obtain the asset, and outflow or realization of expected cash flows from
   disposal of assets
- The way the performance of a financial asset held under the business model is evaluated, and the way such evaluation is being reported to the management
- The risk affecting the performance of the business model (and financial assets held under the business model), and the way such risk is being managed
- The compensation plan for the management (e.g. whether the management is being compensated based on the fair value of assets or based on contractual cash flows received)
- Frequency, amount, timing and reason for sale of financial assets in the past and forecast of future sale activities.

## b) Contractual cash flows

The principal is defined to be the fair value of a financial assets at initial recognition. Interest is not only composed of consideration for the time value of money, consideration for the credit risk related to remaining principal at a certain period of time, and consideration for other cost (e.g. liquidity risk and cost of operation) and fundamental risk associated with lending, but also profit.

When evaluating whether contractual cash flows are solely payments of principal and interests, the Group considers the contractual terms of the financial instrument. When a financial asset contains contractual conditions that modify the timing and amount of contractual cash flows, it is required to determine whether contractual cash flows that arise during the remaining life of the financial instrument due to such contractual condition are solely payments of principal and interest. The Group considers the following elements when evaluating the above:

- Conditions that lead to modification of timing or amount of cash flows
- · Contractual terms that adjust contractual nominal interest, including floating rate features

- Early payment features and maturity extension features
- Contractual terms that limit the Group's claim on cash flows arising from certain assets

## ① Financial assets at FVTPL

The Group is classifying those financial assets that are not classified as either financial assets at amortized cost or financial assets at FVTOCI, and those designated to be measured at FVTPL, as financial assets at FVTPL. Financial assets at FVTPL are measured at fair value, and related profit or loss is recognized in net income. Transaction costs related to acquisition at initial recognition is recognized in net income immediately upon its occurrence.

It is possible to designate a financial asset as financial asset at FVTPL if at initial recognition: (a) it is possible to remove or significantly reduce recognition or measurement mismatch that may otherwise have occurred if not for its designation as financial asset at FVTPL; (b) the financial asset forms part of the Group's financial instrument group (a group composed of a combination of financial asset or liability), is measured at fair value and is being evaluated for its performance, and such information is provided internally; and (c) the financial asset is part of a contract that contains one or more of embedded derivatives, and is a hybrid contract in which designation as financial asset at FVTPL is allowed under IFRS 9 Financial Instruments. However, the designation is irrevocable.

## ② Financial assets at FVTOCI

When financial assets are held under a business model whose objective is achieved by both collecting contractual cash flows and selling financial assets, and when contractual cash flows from such financial assets are solely payments of principal and interest, the financial assets are classified as financial assets at FVTOCI. Also, for investments in equity instruments that are not held for short-term trade, an irrevocable election is available at initial recognition to present subsequent changes in fair value as other comprehensive income.

At initial recognition, financial assets at FVTOCI are measured at its fair value plus any direct transaction cost, and is subsequently measured in fair value. However, for equity instruments that do not have a quotation in an active market and in which fair value cannot be measured reliably, they are measured at cost. The income tax effects related to the changes in fair value except for profit or loss items such as impairment losses (reversals), interest revenue calculated by using effective interest method, and foreign exchange gain or loss about debt instrument are recognized as other comprehensive income until the asset's disposal. Upon derecognition, the accumulated other comprehensive income is reclassified from equity to net income for FVTOCI (debt instrument) and reclassified within the equity for FVTOCI (equity instruments).

# ③ Financial assets at amortized cost

When financial assets are held under a business model whose objective is to hold financial assets in order to collect contractual cash flows, and when contractual cash flows from such financial assets are solely payments of principal and interest, the financial assets are classified as financial assets at amortized cost. At initial recognition, financial assets at amortized cost are recognized at fair value plus any direct transaction cost. Financial assets at amortized cost are presented at amortized cost using effective interest method, less any loss allowance.

# 2) Financial liabilities

At initial recognition, financial liabilities are classified into either financial liabilities at FVTPL or financial liabilities at amortized cost.

Financial liabilities are usually classified as financial liabilities at FVTPL when they are acquired with a purpose to repurchase them within a short period of time, when they are part of a certain financial instrument

portfolio that is actually and recently being managed with a purpose of short-term profit and joint management by the Group at initial recognition, and when they are derivatives that do not qualify as hedging instruments. Financial liabilities at FVTPL are measured at fair value plus direct transaction cost at initial recognition and are subsequently measured at fair value. Profit or loss arising from financial liabilities at FVTPL is recognized in net income when occurred.

It is possible to designate a financial liability as financial liability at FVTPL if at initial recognition: (a) it is possible to remove or significantly reduce recognition or measurement mismatch that may otherwise have occurred if not for its designation as financial liability at FVTPL; (b) the financial asset forms part of the Group's financial instrument group (a group composed of a combination of financial asset or liability) according to the Group's documented risk management or investment strategy, is measured at fair value and is being evaluated for its performance, and such information is provided internally; and (c) the financial liability is part of a contract that contains one or more of embedded derivatives, and is a hybrid contract in which designation as financial liability at FVTPL is allowed under IFRS 9 Financial Instruments.

Financial liabilities designated as at FVTPL are initially recognized at fair value, with any direct transaction cost recognized in profit or loss and are subsequently measured at fair value. Any profit or loss from financial liabilities at FVTPL are recognized in profit or loss.

Financial liabilities not classified as financial liabilities at FVTPL are measured at amortized cost.

#### 3) Reclassification

Financial assets are not reclassified after initial recognition unless the Group modifies the business model used to manage financial assets. When the Group modifies the business model used to manage financial assets, all affected financial assets are reclassified on the first day of the first reporting period after the modification.

# 4) Derecognition

Financial assets are derecognized when contractual rights to cash flows from the financial assets are expired, or when substantially all of risk and reward for holding financial assets is transferred to another entity as a result of a sale of financial assets. If the Group does not have and does not transfer substantially all of the risk and reward of holding financial assets with control of the transferred financial assets retained, the Group recognizes financial assets to the extent of its continuing involvement. If the Group holds substantially all the risk and reward of holding a financial asset, it continues to recognize that asset and proceeds are accounted for as collateralized borrowings.

When a financial asset is fully derecognized, the difference between the carrying amount and the sum of proceeds and accumulated other comprehensive income is recognized as profit or loss in case of FVTOCI (debt instruments), and as retained earnings for FVTOCI (equity instruments).

In case when a financial asset is not fully derecognized, the Group allocates the carrying amount into amounts retained in the books and removed from the books, based on the relative fair value of each portion at the date of sale, and based on the degree of continuing involvement. For the derecognized portion of the financial assets, the difference between its carrying amount and the sum of proceeds and the portion of accumulated other comprehensive income attributable to that portion will be recognized in profit or loss in case of debt instruments and recognized in retained earnings in case of equity instruments. The accumulated other comprehensive income is distributed to the portion of carrying amount retained in the books, and to the portion of carrying amount removed from the books.

The Group derecognizes financial liabilities when, and only when, the Group's obligations are discharged, cancelled or have expired. The difference between the carrying amount of the financial liability derecognized and the consideration paid and payable is recognized in profit or loss.

When the Group exchanges with the existing lender one debt instrument into another one with the substantially different terms, such exchange is accounted for as an extinguishment of the original financial liability and the recognition of a new financial liability. Similarly, the Group accounts for substantial modification of terms of an existing liability or part of it as an extinguishment of the original financial liability and the recognition of a new liability. It is assumed that the terms are substantially different if the discounted present value of the cash flows under the new terms, including any fees paid net of any fees received and discounted using the original effective rate is at least 10 percent different from the discounted present value of the remaining cash flows of the original financial liability.

### 5) Fair value of financial instruments

Financial assets at FVTPL and financial assets at FVTOCI are measured and presented in consolidated financial statements at their fair values, and all derivatives are also subject to fair value measurement.

Fair value is defined as the price that would be received to exchange an asset or paid to transfer a liability in a recent transaction between independent parties that are reasonable and willing. Fair value is the transaction price of identical financial assets or financial liabilities generated in an active market. An active market is a market where trade volume is sufficient and objective price information is available due to the fact that bid and ask price differences are small.

When trade volume of a financial instrument is low, when transaction prices within the market show large differences among them, or when it cannot be concluded that a financial instrument is being traded within an active market due to disclosures being extremely shallow, fair value is measured using valuation techniques based on alternative market information or using internal valuation techniques based on general and observable information obtained from objective sources. Market information includes maturity and characteristics, duration, similar yield curve, and variability measurement of financial instruments of similar nature. Fair value amount contains unique assumptions on each entity (the Group concluded that it is using assumptions applied in valuing financial instruments in the market, or risk-adjusted assumptions in case marketability does not exist).

The market approach and income approach, which are valuation techniques used to estimate the fair value of financial instruments, both require significant judgment. Market approach measures fair value using either a recent transaction price that includes the financial instrument, or observable information on comparable firm or assets. Income approach measures fair value through discounting future cash flows with a discount rate reflecting market expectations, and revenue, operating income, depreciation, capital expenditures, income tax, working capital and estimated residual value of financial investments are being considered when deriving future cash flows. Valuation techniques such as the above include estimates based on the financial instruments' complexity and usefulness of observable information in the market.

The valuation techniques used in the evaluation of financial instruments are explained below.

## a) Financial assets at FVTPL and Financial assets at FVTOCI

The fair value of equity securities included in financial assets at FVTPL and financial assets at FVTOCI category is recognized in the statement of financial position at its available market price. Debt securities traded in the over-the-counter market are generally recognized at an amount computed by an independent appraiser. When the Group uses the fair value determined by independent appraisers, the Group usually obtains three values from three different appraisers for each financial instrument and selects the minimum amount without making additional adjustments. For equity securities without marketability, the Group uses the amount determined by the independent appraiser. The Group verifies the prices obtained from appraisers in various ways, including the evaluation of independent appraisers' competency, indirect verification through comparison between appraisers' price and other available market information, and reperformed by employees who have knowledge of valuation models and assumptions that appraisers used.

## b) Derivatives

The Group's transactions involving derivatives such as futures and exchange traded options are measured at market value. For exchange traded derivatives classified as level 2 in the fair value hierarchy, the fair value is estimated using internal valuation techniques. If there are no publicly available market prices because they are traded over-the-counter, fair value is measured through internal valuation techniques. When using internal valuation techniques to derive fair value, the types of derivatives, base interest rate or characteristics of prices, or stock market indices are considered. When variables used in the internal valuation techniques are not observable information in the market, such variables may contain significant estimates.

## c) Adjustment of valuation amount

The Group is exposed to credit risk when a counterparty to a derivative contract does not perform its contractual obligation, and the exposure amount is equal to the amount of derivative asset recognized in the statement of financial position. When the Group earns income through valuation of derivatives, such income is recognized as derivative asset in the statement of financial position. Some of the derivatives are traded in the market, but most of the derivatives are measured at estimated fair value derived from internal valuation models that use observable information in the market. As such, in order to estimate the fair value there should be an adjustment made to incorporate counterparty's credit risk, and credit risk adjustment is being considered when valuing derivative assets such as over-the counter derivatives. The amount of financial liabilities is also adjusted by the Group's own credit risk when valuing them.

The amount of adjustment is derived from counterparty's probability of default and loss given default. This adjustment considers contractual matters that are designed to reduce the Group's exposure to each counterparty's credit risk. When derivatives are under master netting arrangement, the exposure used in the computation of credit risk adjustment is a net amount after adding/deducting cash collateral received (or paid) from loss (or gain) position derivatives with the same counterparty.

## 6) Expected credit losses on financial assets

The Group recognizes loss allowance on expected credit losses for the following assets:

- · Financial assets at amortized cost
- Debt instruments measured at FVTOCI
- Contract assets as defined by IFRS 15

Expected credit losses are weighted-average value of a range of possible results, considering the time value of money, and are measured by incorporating information on current conditions and forecasts of future economic conditions that are available without undue cost or effort.

The methods to measure expected credit losses are classified into following three categories in accordance with IFRS:

- General approach: Financial assets that does not belong to below two models and unused loan commitments
- Simplified approach: When financial assets are either trade receivables, contract assets or lease receivables
- Credit impairment model: Purchased or originated credit-impaired financial assets

The measurement of loss allowance under general approach is differentiated depending on whether the credit risk has increased significantly after initial recognition. That is, loss allowance is measured based on 12-month expected credit loss when the credit risk has not increased significantly after initial recognition, while loss allowance is measured at lifetime expected credit loss when credit risk has increased significantly. Lifetime is the expected remaining life of the financial instrument up to the maturity date of the contract.

The measurement of loss allowance under simplified approach is always based on lifetime expected credit loss, and loss allowance under credit impairment model is measured as the cumulative change in lifetime expected credit loss since initial recognition.

## a) Measurement of expected credit losses on financial asset at amortized cost

The expected credit losses on financial assets at amortized cost is measured by the difference between the contractual cash flows during the period and the present value of expected cash flows. Expected cash inflows are computed for individually significant financial assets in order to calculate expected credit losses.

When financial assets that are not individually significant, they are included in a group of financial assets with similar credit risk characteristics and expected credit losses of the group are calculated collectively.

Expected credit losses are deducted through loss allowance account, and when the financial asset is determined to be uncollectible, the loss allowance is written off from the books along with the related financial asset.

# b) Measurement of expected credit losses on financial asset at FVTOCI (debt instruments)

The measurement method of expected credit loss is identical to financial asset at amortized cost, but changes in the loss allowance is recognized in other comprehensive income. When financial assets at FVTOCI is disposed or repaid, the related loss allowance is reclassified from accumulated other comprehensive income to net income.

# (10) Offsetting financial instruments

Financial assets and liabilities are presented as a net amount in the statements of financial position when the Group has an enforceable legal right and an intention to settle on a net basis or to realize an asset and settle the liability simultaneously.

# (11) Investment properties

The Group classifies a property held to earn rentals and/or for capital appreciation as an investment property. Investment properties are measured initially at cost, including transaction costs, less subsequent depreciation and impairment.

Subsequent costs are included in the carrying amount of the asset or recognized as a separate asset if it is probable that future economic benefits associated with the assets will flow into the Group and the cost of an asset can be measured reliably, and the carrying amount of a portion of an asset that are replaced by a subsequent expenditure is removed from the books. Routine maintenance and repairs are expensed as incurred.

While land is not depreciated, all other investment properties are depreciated based on the depreciation method and useful lives of premises and equipment. The estimated useful lives, residual values and depreciation method are reviewed at the end of each reporting period, and when it is deemed appropriate to change them, the effect of any change is accounted for as a change in accounting estimates.

An investment property is derecognized from the consolidated financial statements on disposal or when it is permanently withdrawn from use and no future economic benefits are expected even from its disposal. The gain or loss on the derecognition of an investment property is calculated as the difference between the net disposal proceeds and the carrying amount of the property and is recognized in profit or loss in the period of the derecognition.

# (12) Premises and equipment

Premises and equipment are stated at cost less accumulated depreciation and accumulated impairment losses. The cost of an item of premises and equipment is expenditure directly attributable to their purchase or construction, which includes any cost directly attributable to bringing the asset to the location and condition necessary for it to be capable of operating in the manner intended by management. It also includes the initial estimate of costs of dismantling and removing the item and restoring the site on which it is located.

Subsequent costs are recognized in the carrying amount of an asset or as a separate asset (if appropriate) if it is probable that future economic benefit associated with the assets will flow into the Group and the cost of an asset can be measured reliably. Routine maintenance and repairs are expensed as incurred.

While land is not depreciated, for all other premises and equipment, depreciation is charged to net income on a straight-line basis by applying the following estimated economic useful lives on the amount of cost or revalued amount less residual value.

	Useful life
Buildings used for business purpose	26 to 57 years
Structures in leased office	4 to 5 years
Properties for business purpose	4 to 7 years

The Group reassesses the depreciation method, the estimated useful lives and residual values of premises and equipment at the end of each reporting period. If changes in the estimates are deemed appropriate, the changes are accounted for as a change in an accounting estimate. When there is an indicator of impairment and the carrying amount of a premises and equipment item exceeds the estimated recoverable amount, the carrying amount of such asset is reduced to the recoverable amount.

# (13) Intangible assets and goodwill

The Group recognizes the acquisition cost of an intangible asset as the manufacturing cost or purchase cost plus additional incidental expenses. Development costs are the sum of expenditures incurred after the asset recognition requirements, such as technical feasibility and future economic benefits, are met. After the initial recognition, the carrying value is presented as the accumulated amortization and accumulated impairment losses deducted from the cost.

The Group's intangible asset are amortized over the following economic lives using the straight-line method. However, for some intangible assets, the period of time that is expected to be available is not predictable, so the useful life of some intangible assets is assessed as indefinite and not depreciated.

The estimated useful life and amortization method of intangible assets with a finite useful life are reviewed at the end of each reporting period. If changes in the estimates are deemed appropriate, the changes are accounted for as a change in an accounting estimate.

	Useful life
Industrial property rights	5 to 10 years
Development costs	5 years
Software and others	1 to 10 years

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In addition, when an indicator that intangible assets are impaired is noted, and the carrying amount of the asset exceeds the estimated recoverable amount of the asset, the carrying amount of the asset is reduced to its recoverable amount.

Goodwill acquired in a business combination is included in intangible assets. Goodwill is not amortized but is subject to an impairment test at the cash-generating unit level every year, and whenever there is an indicator that goodwill is impaired.

Goodwill is allocated to each of the Group's cash-generating unit (or groups of cash-generating units) that is expected to benefit from the synergies of the combination. If the recoverable amount of the cash-generating unit is less than its carrying amount, the impairment loss is allocated first to reduce the carrying amount of any goodwill allocated to the unit and then to the other assets of the unit on a pro rata basis based on the carrying amount of each asset in the unit. Any impairment loss for goodwill is recognized directly in profit or loss. An impairment loss recognized for goodwill is not reversed in subsequent periods.

## (14) Impairment of non-monetary assets

Intangible assets with indefinite useful lives or intangible assets that are not yet available for use are tested for impairment annually, regardless of whether there is any indication of impairment. All other assets are tested for impairment by estimating the recoverable amount when there is an objective indication that the carrying amount may not be recoverable. Recoverable amount is the higher of value in use or net fair value, less costs to sell. If the recoverable amount of an asset is estimated to be less than its carrying amount, the carrying amount of the asset is reduced to its recoverable amount and such impairment loss is recognized immediately in net income.

## (15) Leases

The Group determines whether the contract is a lease or includes a lease at the time of the contract agreement. In exchange for consideration in a contract, the contract is either a lease or includes a lease if the control over the use of the identified asset is transferred for a period of time. In determining whether a contract transfers control over the use of the asset to which it is identified, the Group uses the definition of lease IFRS 16.

# ① The Group as a lessee

The Group recognizes the right-of-use asset and the lease liability at the commencement date of the lease. The right-of-use asset is measured at cost, which comprises the amount of the initial measurement of the lease liability, lease payments made at or before the commencement date (less any lease incentives received), initial direct costs, and an estimate of costs to be incurred by the lessee in dismantling and removing the underlying asset, restoring the site on which it is located.

The right-of-use asset is subsequently depreciated on a straight-line basis from the commencement of the lease to the end of the lease term. However, if the lease transfers ownership of the underlying asset to the lessee by the end of the lease term or if the cost of the right-of-use asset reflects that the lessee will exercise a purchase option, the lessee depreciates the right-of-use asset same as a fixed asset from the commencement date to the end of the useful life of the underlying asset. The right-of-use asset may be reduced by an impairment of the underlying asset or adjusted by remeasurement of the lease liability.

The lease liability is initially measured at the present value of the lease payments that are not paid at that date. The lease payments are discounted using the interest rate implicit in the lease, if that cannot be readily determined, the Group uses its incremental borrowing rate. The Group generally uses the incremental borrowing rate.

The Group makes adjustments to reflect the terms of the lease and the characteristics of the lease asset in interest rates obtained from external financial information and calculates the incremental borrowing rate.

The Group calculates the lease term by including the relevant period when it is quite certain that the lessee will exercise the extension option or the termination option. The Group calculates the enforceable period in consideration of the economic disadvantages of terminating the contract if the lessee and the lessor have the right to terminate it without the consent of the other parties.

The lease payments included in the measurement of the lease liability comprise the following:

- Fixed payments (including in-substance fixed payments)
- Variable lease payments that depend on an index (or a rate), initially measured using the index or a rate as at the commencement date

- Amounts expected to be payable by the lessee under residual value guarantees
- The exercise price of a purchase option if the lessee is reasonably certain to exercise that option, lease payments of the extended period if the lessee is reasonably certain to exercise extension option, and payments of penalties for terminating the lease, if the lease term reflects the lessee exercising an option to terminate the lease

The lease liability is subsequently increased be the interest expense recognized for the lease liability and decreased by reflecting the payment of the lease payments. The lease liability is remeasured if the future lease payments change depending on changes in the index (or a rate), changes in the expected amount to be paid under the residual value guarantee, and changes in the assessment of whether the purchase or extension option is reasonably certain to be exercised or not to exercise the terminate option.

When remeasuring a lease liability, the related right-of-use asset is adjusted and if the carrying amount of the right-of-use asset decreases to zero, the remeasurement amount is recognized in profit or loss.

The Group applies its judgment when determining the lease term for some lease contracts that include the extension option. The assessment of whether the Group is reasonably certain to exercise the option significantly affects the lease term and therefore has a significant impact on the amount of lease liabilities and the right-of-use asset.

Because the Group can replace the asset without significant cost or business discontinuation, the option to extend the lease is not included in the lease liability in most offices and vehicle transport leases.

The Group reevaluates the lease term when the option is exercised (or not exercised) or the Group is liable to exercise (or not exercise) the option. Group will change its judgment only when significant events occur that affect the lessee's control and the determination of the lease term, or there is a significant change in the circumstances.

Lease liabilities and right-of-use-asset increased by 1,650 million Won, reflecting the exercise impact of the extension and termination options during the current term.

In the statement of financial position, the Group classified the right-of-use assets that do not meet the definition of investment property as 'premises and equipment' and the lease liabilities as 'other financial liabilities.

The Group has chosen a practical expedient that does not recognize the right-of-use asset and lease liabilities for short-term leases with a lease term less than 12 months and leases for which the underlying asset is of low value. The Group recognizes the lease payments associated with those leases as an expense on a straight-line basis over the lease term.

## 2 The Group as a lessor

At the date of the agreement or the effective date of the modification containing the lease element, the Group allocates the consideration of the contract to each lease element based on its relative stand-alone price.

As a lessor, the Group classifies its leases as either a finance lease or an operating lease at the commencement date.

The Group subsequently judges whether the lease transfers substantially all the risks and rewards incidental to ownership of an underlying asset. A lease is classified as a finance lease if it transfers substantially all the risks and rewards incidental to ownership of an underlying asset, otherwise a lease is classified as an operating lease.

If the agreement contains both lease and non-lease elements, the Group applies IFRS 15 to allocate the consideration of the contract.

The Group applies the derecognition and impairment provisions of IFRS 9 to its net investment in the lease. The Group also carries out regular review of the unguaranteed residual value used to calculate total lease investment.

The Group recognizes lease payments from operating lease as income on a straight-line basis.

The accounting policy that the Group has applied as a lessor is not different from IFRS 16.

# (16) Derivative instruments

Derivative instruments are classified as forwards, futures, options and swaps, depending on the types of transactions and are classified at the point of transaction as either trading or hedging based on its purpose.

Derivatives are initially recognized at fair value at the date of contract and are subsequently measured at fair value at the end of each reporting period. The resulting gain or loss is recognized in net income immediately unless the derivative is designated or effective as a hedging instrument. If derivatives have been designated as hedging instruments and if it is effective, the point of recognition of gain or loss depends on the characteristics of hedging relationship.

Derivatives that have positive (+) fair values are recognized as financial assets and those that have negative (-) fair values are recognized as financial liabilities. Derivatives are not offset in the consolidated financial statements unless they have legally enforceable right to set off or are intended to set off.

## 1) Embedded derivatives

Embedded derivatives are components of a hybrid financial instrument that includes a non-derivative host contract. It has an effect of modifying part of cash flows of the hybrid financial instrument similar to an independent derivative.

Embedded derivatives that are part of a hybrid contract of which the host contract is a financial asset within the scope of IFRS 9 are not separated. The classification is done by considering the hybrid contract as a whole, and subsequent measurement is either at amortized cost or fair value.

If embedded derivatives are part of a hybrid contract of which the host contract is not a financial asset within the scope of IFRS 9 (e.g. financial liability), then these are treated as separate derivatives if embedded derivatives meet the definition of a derivative, characteristics & risk of the embedded derivatives are not closely related to that of host contract, and if the host contract is not measured at FVTPL.

# 2) Hedge accounting

The Group is applying IFRS 9 in regard to hedge accounting. The Group is designating certain derivatives as hedging instrument against fair value changes in relation to the interest rate risk, foreign currency translation and interest rate risk, and foreign currency translation risk.

The Group is documenting the relationship between hedging instruments and hedged items at the commencement of hedging in accordance with their purpose and strategy. Also, the Group documents at the commencement and subsequent dates whether the hedging instrument effectively counters the changes in fair value of hedged items. A hedging instrument is effective only when it meets all the following criteria:

- When there is an economic relationship between the hedged items and hedging instruments
- When the effect of credit risk is not stronger than the change in value due to the economic relationship between the hedged items and hedging instruments
- When the hedge ratio of hedging relationship is equal to the proportion of the number of items that the Group actually hedges and the number of hedging instruments that the Group actually uses to hedge the number of hedged items

When a hedging relationship no longer meets the hedging effectiveness requirements related to hedge ratio, but when the purpose of risk management on designated hedging relationship is still maintained, the hedge ratio of the hedging relationship is adjusted so that hedging relationship may meet the requirements again (Hedge ratio readjustment).

The Group has designated derivatives as hedging instrument except for the portion on foreign currency basis spread. The fair value change due to foreign currency basis spread is recognized in other comprehensive income and is accumulated in equity. If the hedged item is related to transactions, the accumulated other comprehensive income is reclassified to profit or loss when the hedged item affects the profit or loss. However, when non-monetary items are subsequently recognized due to hedged items, the accumulated equity is removed from the equity directly and is included in the initial carrying amount of the recognized non-monetary items. Such transfers do not affect other comprehensive income. But if part or all of accumulated equity is not expected to be recovered in the future periods, the amount not expected to be recovered is immediately reclassified to profit or loss. If the hedged item is time-related, then the foreign currency basis spread on the day the derivative is designated as a hedging instrument that is related to the hedged item is reclassified to profit or loss over the term of the hedge.

# 3) Fair value hedge

Gain or loss arising from valid hedging instrument is recognized in profit or loss. However, when the hedging instrument mitigates risks on equity instruments designated as financial assets at FVTOCI, related gain or loss is recognized in other comprehensive income.

The carrying amount of hedged items that are not measured in fair value is adjusted by the changes in fair value arising from the hedged risk, with resulting gain or loss reflected in net income. In case of debt instruments measured at FVTOCI, carrying amount is an amount that is already adjusted to fair value and thus gain or loss arising from the hedged risk is recognized in profit or loss instead of other comprehensive income without adjustments in carrying amount. When the hedged item is equity instruments measured at FVTOCI, the gain or loss arising from hedged risk is retained at other comprehensive income in order to match the gain or loss with hedging instruments.

When gains or losses arising from the hedged risk are recognized in profit or loss of the current term, they are recognized as items related to the hedged items.

Hedge accounting ceases to apply only when hedging relationship (or part of it) does not meet the requirements of hedge accounting (even after hedging relationship readjustment, if applicable). This treatment holds in case of lapse, disposal, expiry and exercise of hedging instruments, and this cease of treatment applies prospectively. The fair value adjustments made to carrying amount of hedged item due to hedged risk is amortized from the date of discontinuance of hedge accounting and is recognized in profit or loss.

# 4) Cash flow hedge

The Group recognizes the effective portion of changes in the fair value of derivatives and other valid hedging instruments that are designated and qualified as cash flow hedges in other comprehensive income to the extent of cumulative fair value changes of the hedged item from the starting date of hedge accounting and it is cumulated in the cash flow hedge reserve. The gain or loss relating to the ineffective portion is recognized immediately in net income.

Amounts previously recognized in other comprehensive income and accumulated in equity are reclassified to net income when the hedged item affects net income. However, when non-monetary assets or liabilities are subsequently recognized due to expected transactions involving hedged items, the valuation gain or loss accumulated in the equity as other comprehensive income is removed from the equity and included in the initial carrying amount of the recognized non-monetary assets or liabilities. Such transfers do not affect other comprehensive income. Also, if the cash flow hedge reserve is loss and accumulated other comprehensive income is a loss and part or all of the losses are not expected to be recovered in the future periods, the said amount is immediately reclassified to profit or loss.

Hedge accounting ceases to apply only when hedging relationship (or part of it) does not meet the requirements of hedge accounting (even after hedging relationship readjustment, if applicable). This treatment holds in case of lapse, disposal, expiry and exercise of hedging instruments, and this cease of treatment applies prospectively. At the point of cessation of cash flow hedge, the valuation gain or loss recognized as accumulated other comprehensive income continues to be recognized as equity, and is reclassified to profit or loss when the expected transaction is ultimately recognized as profit or loss. However, when transactions are no longer expected to occur, the valuation gain or loss of hedging instrument recognized as accumulated other comprehensive income is immediately reclassified to profit or loss.

## (17) Assets (or disposal group) held for sale

The Group classifies a non-current asset (or disposal group) as held for sale if its carrying amount will be recovered principally through a sale transaction rather than through continuing use. Non-current assets (and disposal groups) classified as held for sale are measured at the lower of their previous carrying amount and fair value less costs to sell.

## (18) Provisions

Provisions are recognized if it has present or contractual obligations as a result of the past event, it is probable that an outflow of resources will be required to settle the obligation and the amount of the obligation is reliably estimated. A provision is not recognized for the future operating losses.

The Group recognizes provisions related to the payment guarantees, loan commitment and litigations. Under the terms of lease agreement, the cost incurred by the Group to recover the leased asset to its original state are recognized as provisions at the commencement of the lease or during a specific period in which the obligation is incurred as a result of the using the asset. The provisions are measured as the best estimate of the expenditure required to recover the asset, which is regularly reviewed and sated to the new situation.

Where there are a number of similar obligations, the probability that an outflow will be required in settlement is determined by considering the obligations as a whole. Although the likelihood of outflow for any one item may be small, if it is probable that some outflow of resources will be needed to settle the obligations as a whole, a provision is recognized.

At the end of each reporting period, the remaining provision balance is reviewed an assessed to determine if the current best estimate is being recognized.

## (19) Equity instruments issued by the Group

# 1) Capital and compound financial instruments

The Group classifies a financial instrument that it issues as a financial liability or an equity instrument in accordance with the substance of the contractual arrangement. A financial liability is a contractual obligation to deliver cash or another financial asset to another entity. An equity instrument is any contract that evidences a residual interest in the assets of an entity after deducting all of its liabilities. The compound financial instruments are financial instruments where it is neither a financial liability nor an equity instrument because it was designed to contain both equity and debt elements.

If the Group reacquires its own equity instruments, the consideration paid including the direct transaction costs (net of tax expense) are presented as a deduction from total equity until such instruments are retired or reissued. When these instruments are reissued, the consideration received (net of direct transaction costs) is included in the shareholder's equity.

# 2) Hybrid securities

The Group classifies hybrid securities that have the unconditional right to avoid contractual obligations, such as to deliver cash or other financial assets in relation to financial instruments into equity instruments and presents as part of equity. Meanwhile, hybrid securities issued by subsidiaries of the group are classified as non-controlling interests according to the criteria, and the distribution paid is treated as net profit attributable to non-controlling interests in the consolidated comprehensive income statement.

# (20) Financial guarantee contracts

A financial guarantee contract is a contract where the issuer must pay a certain amount of money in order to compensate losses suffered by the creditor when debtor defaults on a debt instrument in accordance with original or modified contractual terms.

A financial guarantee is initially measured at fair value and is subsequently measured at the higher of the amounts below unless it is designated to be measured at FVTPL or when it arises from disposal of an asset.

- Loss allowance in accordance with IFRS 9
- Initial carrying amount less accumulated profit measured in accordance with IFRS 15

## (21) Employee benefits and pensions

The Group recognizes the undiscounted amount of short-term employee benefits expected to be paid in exchange for the services rendered by the employees. Also, the Group recognizes expenses and liabilities in the case of accumulating compensated absences when the employees render services that entitle their right to future compensated absences. Similarly, the Group recognizes expenses and liabilities for customary profit distribution or bonuses when the employees render services, even though the Group does not have legal obligation to do so because it can be construed as constructive obligation.

The Group is operating defined contribution plans and defined benefit plans. Contributions to defined contribution plans are recognized as an expense when employees have rendered services entitling them to receive the benefits. For defined benefit plans, the defined benefit liability is calculated through an actuarial assessment using the projected unit credit method every end of the reporting period, conducted by a professional actuaries. Remeasurement, comprising actuarial gains and losses, the return on plan assets (excluding the amount included in net interest from net defined benefit liability (asset)), and the effect of the changes to the asset ceiling is reflected immediately in the separate statement of financial position with a charge or credit recognized in other comprehensive income in the period in which they occur.

Remeasurement recognized in the consolidated statement of comprehensive income is not reclassified to profit or loss in the subsequent periods. Past service cost is recognized in profit or loss in the period of a plan amendment. Net interest is calculated by applying the discount rate at the beginning of the period to the net defined benefit liability or asset. Defined benefit costs are composed of service cost (including current service cost and past service cost, as well as gains and losses on settlements), net interest expense (income) and remeasurement.

The Group presents the service cost and net interest expense (income) components in profit or loss, and the remeasurement component in other comprehensive income. Curtailment gains and losses are accounted for as past service costs.

The retirement benefit obligation recognized in the consolidated statement of financial position represents the actual deficit or surplus in the Group's defined benefit plans. Any surplus resulting from this calculation is recognized as an asset limited to the present value of any economic benefits available in the form of refunds from the plans or reductions in future contributions to the plans.

Liabilities for termination benefits are recognized at the earlier of either the date when the Group is no longer able to cancel its proposal for termination benefits or the date when the Group has recognized the cost of restructuring that accompanies the payment of termination benefits.

## (22) Income taxes

Income tax expense is composed of current tax and deferred tax. That is, income tax expense is composed of taxes payable or refundable during the period and deferred taxes calculated by applying asset-liability method to taxable and deductible temporary differences arising from operating loss and tax credit carryforwards. Temporary differences are the differences between the carrying values of assets and liabilities for financial reporting purposes and their tax bases. Deferred income tax benefit or expense is recognized for the change in deferred tax assets or liabilities. Deferred tax assets and liabilities are measured as of the reporting date using the enacted or substantively enacted tax rates expected to apply in the period in which the liability is settled or asset is realized. Deferred tax assets, including the carryforwards of unused tax losses, are recognized to the extent it is probable that the deferred tax assets will be realized.

Deferred income tax assets and liabilities are offset if, and only if, the Group has a legally enforceable right to offset current tax assets against current tax liabilities, and the deferred tax assets and liabilities relate to income taxes levied by the same taxation authority or when the entity intends to settle current tax liabilities and assets on a net basis with different taxable entities.

The carrying amount of deferred tax assets is reviewed at the end of each reporting period and reduced to the extent it is no longer probable that sufficient taxable profits will be available to allow all or part of the asset to be recovered.

Deferred liabilities are not recognized if the temporary difference arises from the initial recognition of goodwill. Deferred tax assets or liabilities are not recognized if they arise from the initial recognition (other than in a business combination) of other assets and liabilities in a transaction that affects neither the taxable profit(tax loss) nor the accounting profit.

Current and deferred taxes are recognized in profit or loss, except when they relate to items that are recognized in other comprehensive income or directly in equity or when it arises from business combination.

The tax uncertainty arises from the compensation claim filed by the Group, and refund litigation for the amount of tax levied by the tax authority due to differences in tax law analysis. In response, the Group paid taxes in accordance with IFRIC 23 due to the tax authority's claim but recognized as a corporate tax asset if it is highly probable of a refund in the future. In addition, the Group appropriately estimates and reflects the amount of corporate tax liabilities based on the analysis of corporate tax laws and the evaluation of many factors, including past experiences.

## (23) Criteria of calculating earnings per share ("EPS")

Basic EPS is a calculation of net income per each common stock. It is calculated by dividing net income attributable to ordinary shareholders by the weighted-average number of common shares outstanding. Diluted EPS is calculated by adjusting the earnings and number of shares for the effects of all dilutive potential common shares.

# (24) Share-based payment

For cash-settled share-based payment transactions that provide cash in return for the goods or services received, the Group measures the goods or services received, and the corresponding liability at the fair value and recognizes as employee benefit expenses and liabilities during the vesting period. The fair value of the liability is remeasured at the end of each reporting period and the settlement date until the liability is settled, and changes in fair value are recognized as employee benefits.

## 3. SIGNIFICANT ACCOUNTING ESTIMATES AND ASSUMPTIONS

Significant accounting estimates and assumptions are continuously evaluated based on a number of factors, including historical experience and expectations of future events that are considered reasonably probable. Accounting estimates calculated based on these definitions may not match actual results. The accounting estimates and assumptions that include a significant risk of materially changing the carrying amounts of assets and liabilities currently recognized in the following accounting period are as follows.

## 1) COVID-19 effect review

The diffusion of COVID-19 has had a significant impact on the global economy including Korea. Financial and economic shocks may have negative impacts on the Group's financial condition and results of operations in various forms both domestically and internationally, however, the Korean government is providing unprecedented financial and economic relief measures such as extension of maturity of loans. Despite the announcement of these various forms of government support policies, the negative impact of the COVID-19 on the global economy continues.

The Group determined that the credit risk of loan affected by the loan deferment has significantly increased and evaluated that the possibility of default is high. The Group will continue to assess the adequacy of forward-looking information related to the duration of the impact of COVID-19 on economy and government policies.

#### <Woori Bank>

Woori Bank's total loans (loan receivables, payment guarantees) that are subject to loan deferment and interest deferment, total loans that changed its stage from 12-month to lifetime expected credit losses (Stage 2), and the expected credit loss allowances recognized additionally are as follows. (Unit: Korean Won in millions):

		<b>December 31, 2021</b>	<b>December 31, 2022</b>
Total loans (loan receivables, payment guarantees) that are	Corporate	2,428,496	1,960,524
subject to loan deferment and interest deferment	Retail	167,146	216,487
	Total	2,595,642	2,177,011
Total loans changed its stage from 12-month to lifetime	Corporate	2,125,492	1,777,108
(Stage 2) expected credit losses	Retail	134,920	169,851
	Total	2,260,412	1,946,959
The expected credit loss allowances that are additionally	Corporate	275,057	312,371
recognized	Retail	9,657	12,643
	Total	284,714	325,014

In addition, as of December 31, 2021 and 2022 the Group applied the overlay in consideration of the potential for insolvency due to market interest rate hikes and the increase in economic uncertainty due to the prolonged spread of COVID-19 when forecasting the future economy.

As of December 31, 2021 and 2022, the monetary effect of the provision for expected credit loss due to the application of the forecast of future economic conditions overlay is as follows. (Unit: Korean Won in millions):

	December 31, 2021	December 31, 2022
Corporate	48,583	347,801
Retail	6,237	16,256
Total	54,820	364,057

## <Woori Card>

Woori Card Co., Ltd. determined that the credit risk of obligors receiving financial support due to COVID-19 significantly increased, and transferred the loss allowance at the amount equivalent to lifetime expected credit loss. As of December 31, 2022, the balance of amortised cost of a financial asset of the obligors who need financial support amounts to 6,670 million Won, and the additional provisioned loss allowance is 177 million Won.

## <Woori Financial Capital Co., Ltd.>

Woori Financial Capital Co., Ltd. determined that the credit risk of obligors receiving financial support due to COVID-19 significantly increased, and evaluated that the possibility of default is high. As a result, as of December 31, 2021 and 2022, the amortized cost of a financial asset of the obligors subject to the deferment of redemption and interest deferment due to COVID-19 amounts to 80,291 million Won and 52,611 million Won, and the expected credit loss provisions recognized in relation to them are 15,575 million Won and 10,606 million Won.

#### 2) Income taxes

The Group has recognized current and deferred taxes based on best estimates of expected future income tax effect arising from the Group's operations until the end of the current reporting period. However, actual tax payment may not be identical to the related assets/liabilities already recognized, and these differences may affect current taxes and deferred tax assets/liabilities at the time when income tax effects are finalized. Deferred tax assets relating to tax losses carried forward and deductible temporary differences are recognized only to the extent that it is probable that future taxable profit will be available against which the tax losses carried forward and the deductible temporary differences can be utilized. In this case the Group's evaluation considers various factors such as estimated future taxable profit based on forecasted operating results, which are based on historical financial performance. The Group is reviewing the carrying amount of deferred tax assets every end of the reporting period and in the event that the possibility of earning future taxable income changes, the deferred tax assets are adjusted up to taxable income sufficient to use deductible temporary differences.

## 3) Valuation of financial instruments

Financial assets at FVTPL and FVTOCI are recognized in the consolidated financial statements at fair value. All derivatives are measured at fair value. Valuation techniques are required in order to determine fair values of financial instruments where observable market prices do not exist. Financial instruments that are not actively traded and have low price transparency will have less objective fair value and require broad judgment in liquidity, concentration, uncertainty in market factors and assumption in price determination and other risks.

As described in '2. Basis of Preparation and Significant Accounting Policies (9) 5) Fair value of financial instruments', when valuation techniques are used to determine the fair value of a financial instrument, various general and internally developed techniques are used, and various types of assumptions and variables are incorporated during the process.

# 4) Impairment of financial instruments

The accuracy of the provision for credit losses is determined by the estimation of the expected cash flows for each tenant for estimating the individually assessed loan-loss allowance, and the assumptions and variables in the model used for estimating the collectively assessed loan-loss allowance payment, guarantee and unused commitment.

The Group has estimated the allowance for credit losses based on reasonable and supportable information that was available without undue cost or effort at the reporting date about past events, current conditions and forecasts of future economic conditions.

Information on measuring expected credit loss is described in 4. Risk Management (1) 2) Measurement of expected credit loss.

# 5) Defined benefit plan

The Group operates a defined benefit pension plan. Defined benefit obligation is calculated at every end of the reporting period by performing actuarial valuation, and estimation of assumptions such as discount rate, expected wage growth rate and mortality rate is required to perform such actuarial valuation. The defined benefit plan, due to its long-term nature, contains significant uncertainties in its estimates.

## 4. RISK MANAGEMENT

The Group is exposed to various risks that may arise from its operating activities and the main types of risks are credit risk, market risk, liquidity risk and etc. The Risk Management Department analyze and assess the level of complex risks in order to manage the risks and the risk management standards such as policies, regulations, management systems and decision-making have been established and operated for sound management of the Group.

The risk management organization is operated by Risk Management Committee, Chief Risk Officer(CRO), and Risk Management Department. The Board of Directors operates a Risk Management Committee comprised of outside directors for professional risk management. The Risk Management Committee plays a role as the top decision-making body in risk management by establishing basic policies for risk management that are in line with the Group's management strategy and determining the risk level that the Group is willing to take.

The Chief Risk Officer (CRO) assists the Risk Management Committee and operates a Group Risk Management Council comprised of risk management managers of subsidiaries to periodically check and improve the risk burden of external environments and the Group. The risk management department is independent and is in charge of risk management of the Group. It also supports reporting and decision-making of key risk-related issues.

## (1) Credit risk

Credit risk represents the possibility of financial losses incurred due to the refusal of the transaction or when the counterparty fails to fulfill its contractual obligations. The goal of credit risk management is to maintain the Group's credit risk exposure to a permissible degree and to optimize its rate of return considering such credit risk.

# 1) Credit risk management

To measure credit risk, the Group considers the probability of failure in performing the obligation of its counterparties, credit exposure to the counterparty, the related default risk and the rate of default loss. The Group uses the credit rating model to assess the possibility of counterparty's default risk; and when assessing the obligor's credit rating, other than quantitative methods utilizing financial statements and others, and assessor's judgement, the Group utilizes credit rating derived using statistical methods.

In order to manage credit risk limit, the Group establishes the appropriate credit line per obligor, company or industry by monitoring obligor's credit line, total exposures and loan portfolios when approving the loan.

The Group mitigates credit risk resulting from the obligor's credit condition by using financial and physical collateral, guarantees, netting agreements and purchase of credit derivatives that have low correlation with the obligor's credit status. The Group has adopted the entrapment method to mitigate its credit risk. Credit risk mitigation is reflected in qualifying financial collateral, trade receivables, guarantees, residential and commercial real estate and other collaterals. The Group regularly performs a revaluation of collateral reflecting such credit risk mitigation.

# 2) Measurement of expected credit loss

IFRS 9 requires entities to measure loss allowance equal to 12-month expected credit losses or lifetime expected credit losses after classifying financial assets into one of the three stages, depends on the degree of increase in credit risk since their initial recognition.

Classification	Stage 1	Stage 2	Stage 3
Definition	No significant increase in credit risk after initial recognition(*)	Significant increase in credit risk after initial recognition	Credit-impaired
Loss allowance	12-month expected credit losses: Expected credit losses that result from those default events on the financial instrument that are possible within 12 months after the reporting date	Lifetime expected cred Expected credit losses possible default events financial instrument	that result from all

<sup>(\*)</sup> If the financial instrument has low credit risk at the end of the reporting period, the Group may assume that the credit risk has not increased significantly since initial recognition.

Loss allowance under credit impairment model is measured as the cumulative change in lifetime expected credit loss since initial recognition.

At the end of each reporting period the Group assesses whether credit risk has significantly been increased since the date of initial recognition. The Group assesses whether the credit risk has increased significantly since initial recognition by using credit rating, asset quality level, early warning system, days past due and others. For financial assets whose contractual cash flows have been modified, the Group assesses whether there is a significant increase in credit risk on the same basis.

The Group performs the below assessment to both corporate and retail exposures, and indicators of significant increase in credit risk are as follows:

Corporate Exposures	Retail Exposures
Asset quality level 'Precautionary' or lower	Asset quality level 'Precautionary' or lower
More than 30 days past due	More than 30 days past due
'Warning' level in early warning system	Significant decrease in credit rating(*)
Debtor experiencing financial difficulties	Deferment of repayment of principal and interest
(Capital impairment, Adverse opinion or Disclaimer of	
opinion by external auditors)	
Significant decrease in credit rating (*)	Deferment of interest
Deferment of repayment of principal and interest	
Deferment of interest	

<sup>(\*)</sup> The Group has applied the below indicators of significant decrease in credit rating since initial recognition as follows, and the estimation method is regularly being monitored.

	Credit rating	Significant increased indicator of the credit rating
Corporate	$AAA \sim A+$	More than or equal to 4 steps
	$A- \sim BBB$	More than or equal to 3 steps
	BBB- $\sim$ BB+	More than or equal to 2 steps
	$BB \sim BB$ -	More than or equal to 1 step
Retail	1 ~ 3	More than or equal to 3 steps
	4 ~ 5	More than or equal to 2 steps
	6 ~ 10	More than or equal to 1 step

The Group determined that there is no significant increase in credit risk after initial recognition for debt securities, etc. with a credit rating of A + or higher, which are deemed to have low credit risk at the end of the reporting period.

The Group concludes that credit is impaired when financial assets are under conditions stated below:

- When principal and interest of loan is overdue for 90 days or longer due to significant deterioration in credit
- For loans overdue for less than 90 days, when it is determined that not even a portion of the loan will be recovered unless claim actions such as disposal of collaterals are taken
- When other objective indicators of impairment have been noted for the financial asset.

The Group has estimated the allowance for credit losses using an estimation model that additionally reflects the future economic forward information based on the past experience loss rate data.

Loss allowance is calculated by applying PD (default rate) and LGD (loss rate on default) estimated for each financial asset in consideration of factors such as obligor type, credit rating and portfolio. The estimates are regularly being reviewed in order to reduce discrepancies with actual losses.

In measuring the expected credit losses, the Group is also using reasonable and supportable macroeconomic indicators such as GDP growth rate, Personal consumption expenditures price index rate, consumer price index change rate in order to forecast future economic conditions.

The Group is conducting the following procedures to estimate and apply future economic forecast information.

- Development of estimation models through regression analysis of corporate retail/year-by-year default rate and macroeconomic indicator data by year
- Calculation of estimated default rate incorporating future economic forecasts by applying estimated macroeconomic indicators provided by verified institutions such as Bank of Korea and National Assembly Budget Office to the estimation model developed
- Forecast of macroeconomic variables
- a) Probability weight

As of December 31, 2022, the probability weights applied to the scenarios of the forecasts of macroeconomic variables is as follows (Unit: %):

	Basic Scenario	Upside Scenario	Downside Scenario
Probability weight	52.57	12.52	34.91

b) Economic forecast of each major macroeconomic variables by scenario (prospect period: 2023)

As of December 31, 2022, the forecasts of major macroeconomic variables by scenario is as follows (Unit: %)

	Basic Scenario	Upside Scenario	Downside Scenario
GDP growth rate	1.70	1.89	1.36
Personal consumption expenditures price index rate	2.70	3.11	1.97
Consumer price index change rate	3.60	3.39	3.97

The results of Woori Bank's sensitivity analysis on expected credit loss provisions due to changes in macroeconomic indicators as of December 31, 2021 and 2022 are as follows (Unit: Korean Won in millions):

			<b>December 31, 2021</b>
Corporate	GDP growth rate	Increase by 1% point	(68,140)
		Decrease by 1% point	74,495
	Personal consumption	Increase by 1% point	(40,654)
	expenditures price index rate	Decrease by 1% point	43,028
Retail	GDP growth rate	Increase by 1% point	(8,798)
		Decrease by 1% point	9,163
	Consumer price index	Increase by 1% point	(29,469)
	change rate	Decrease by 1% point	34,352
			<b>December 31, 2022</b>
Corporate	Personal consumption	Increase by 1% point	(59,987)
	expenditures price index rate	Decrease by 1% point	68,036
Retail	Consumer price index	Increase by 1% point	(24,164)
	change rate	Decrease by 1% point	28,042

<sup>(\*)</sup> The sensitivity of the effect of the GDP growth rate on banks' ECLs is not significant.

• The increase rate between the measured default rate and the predicted default rate is used as a future economic forecast adjustment coefficient and reflected to the applicable estimate for the current year.

# 3) Maximum exposure

The Group's maximum exposure to credit risk shows the uncertainties related to the maximum possible variation of financial assets' net value as a result of changes in the specific risk factors, prior to the consideration of collaterals that are recorded at net carrying amount after allowances and other credit enhancements. However, the maximum exposure is the fair value amount (recorded on the books) for derivatives, maximum contractual obligation for payment guarantees and unused amount of commitments for loan commitment.

The maximum exposure to credit risk as of December 31, 2021 and 2022 is as follows (Unit: Korean Won in millions):

		December 31, 2021	December 31, 2022
Loans and other financial assets at	Korean treasury and government		
amortized cost(*1)	agencies	2,207,893	2,877,685
	Banks	24,412,685	21,571,097
	Corporates	131,027,256	143,507,852
	Consumers	191,237,783	187,804,095
	Sub-total	348,885,617	355,760,729
Financial assets at FVTPL(*2)	Deposits	65,072	34,995
	Debt securities	2,743,239	4,270,532
	Loans	667,467	899,228
	Derivative assets	4,803,131	8,206,181
	Others	1,518	1,505
	Sub-total	8,280,427	13,412,441
Financial assets at FVTOCI	Debt securities	38,126,977	32,145,758
Securities at amortized cost	Debt securities	17,086,274	28,268,516
Derivative assets	Derivative assets (Designated for		
	hedging)	106,764	37,786
Off-balance accounts	Payment guarantees(*3)	12,987,809	11,921,586
	Loan commitments	114,414,462	118,172,070
	Sub-total	127,402,271	130,093,656
	Total	539,888,330	559,718,886

<sup>(\*1)</sup> Cash and cash equivalents are not included.

# a) Credit risk exposure by geographical areas

The following tables analyze credit risk exposure by geographical areas (Unit: Korean Won in millions):

	December 31, 2021						
	Korea	China	USA	UK	Japan	Others(*)	Total
Loans and other financial assets at							
amortized cost	325,947,526	5,620,622	3,742,331	212,821	635,939	12,726,378	348,885,617
Securities at amortized cost	16,785,265	92,880	27,018	_	_	181,111	17,086,274
Financial assets at FVTPL	6,150,464	1,330	1,188,358	195,048	61,315	683,912	8,280,427
Financial assets at FVTOCI	34,242,133	808,359	1,713,435	1,755	23,193	1,338,102	38,126,977
Derivative assets (Designated for							
hedging)	11,678	_	95,086	_	_	_	106,764
Off-balance accounts	123,375,839	1,001,430	375,929	31,116	32,402	2,585,555	127,402,271
Total	506,512,905	7,524,621	7,142,157	440,740	752,849	<u>17,515,058</u>	539,888,330

<sup>(\*)</sup> Others consist of financial assets in Indonesia, Hong Kong, Germany, Australia, and other countries.

<sup>(\*2)</sup> Puttable financial instruments are not included.

<sup>(\*3)</sup> As of December 31, 2021 and 2022, the financial guarantee amount of 3,960,383 million Won and 3,095,091 million Won are included, respectively.

	December 31, 2022						
	Korea	China	USA	UK	Japan	Others(*)	Total
Loans and other financial assets at							
amortized cost	331,572,328	5,188,826	4,721,440	215,174	719,301	13,343,660	355,760,729
Securities at amortized cost	26,883,967	642,089	421,248	16,658	_	304,554	28,268,516
Financial assets at FVTPL	9,272,673	2,607	2,210,580	318,322	168,013	1,440,246	13,412,441
Financial assets at FVTOCI	27,780,323	806,320	2,297,076	1,726	41,421	1,218,892	32,145,758
Derivative assets (Designated for							
hedging)	37,786	_	_	_	_	_	37,786
Off-balance accounts	126,531,020	981,139	380,209	25,644	16,987	2,158,657	130,093,656
Total	522 078 097	7 620 981	10 030 553	577 524	945 722	18 466 000	550 718 886

Danasah ang 21, 2022

# b) Credit risk exposure by industries

① The following tables analyze credit risk exposure by industries, which are service, manufacturing, finance and insurance, construction, individuals and others in accordance with the Korea Standard Industrial Classification Code as of December 31, 2021 and 2022 (Unit: Korean Won in millions):

			De	ecember 31, 20	)21		
	Service	Manufacturing	Finance and insurance	Construction	Individuals	Others	Total
Loans and other financial assets at amortized		<u> </u>					
cost	67,895,018	37,679,784	32,493,347	4,303,491	185,972,844	20,541,133	348,885,617
cost	479,291	_	7,061,770	250,607	_	9,294,606	17,086,274
FVTPL Financial assets at	115,346	146,277	6,646,922	13,623	1,836	1,356,423	8,280,427
FVTOCI	376,998	258,866	29,444,989	131,967	_	7,914,157	38,126,977
Derivative assets (Designated for							
hedging)				27,395			106,764
Off-balance accounts							
Total	87,432,223	57,079,589	87,490,064	8,627,849	253,941,506	45,317,099	539,888,330
			De	ecember 31, 20	)22		
	Service	Manufacturing	Finance and	Construction	Individuals	Others	Total
I assessment ather Consocial	Service	<u>Manufacturing</u>		Construction	Illuividuals		Iotai
Loans and other financial assets at amortized							
cost	78,173,716	37,013,486	31,485,795	5,613,480	183,167,572	20,306,680	355,760,729
Securities at amortized							
cost	239,141	_	16,198,175	199,924	_	11,631,276	28,268,516
Financial assets at FVTPL	200,678	184 019	9,776,234	51,244	1 167	3 199 099	13,412,441
Financial assets at	200,070	104,017	),110,23 <del>+</del>	31,244	1,107	3,177,077	13,412,441
FVTOCI	417,877	231,132	22,249,839	48,225	_	9,198,685	32,145,758
Derivative assets (Designated for							
hedging)	_		37,786	_	_	_	37,786
Off-balance accounts	18,661,383	22,492,863	10,523,731	3,143,673	69,404,456	5,867,550	130,093,656
Total	97,692,795	59,921,500	90,271,560	9,056,546	252,573,195	50,203,290	559,718,886

<sup>(\*)</sup> Others consist of financial assets in Indonesia, Hong Kong, Germany, Australia, and other countries.

② The detailed industries of financial assets and corporate loans that might get affected by the spread of COVID-19 as of December 31, 2021 and 2022 are as follow and the industries that can be affected may change by future economic conditions (Unit: Korean Won in millions):

# < Woori Bank >

			I	December 31, 2021	
			Loans and other financial assets at amortized cost	Financial assets at FVTPL	Financial assets at FVTOCI
Service business	Distribution	General retail			
	business	business	754,850	274	_
		General wholesale			
		business	809,893	221	_
		Sub-total	1,564,743	495	_
	Accommodation	business	1,441,185	625	23,840
	Travel business		53,302	_	_
	Art/sports, leisur	e service	600,746	503	_
	_		1,279,128	216	_
	Transportation by	usiness	404,120	77	_
			1,050,229	599	_
			6,393,453	2,515	23,840
Manufacturing			2,626,493	724	10,718
C	Metal		199,877	10	_
			148,471	24	_
			904,563	1,994	_
			103,510	31	_
			191,865	_	_
			4,174,779	2,783	10,718
	Total		10,568,232	5,298	34,558
				December 31, 2021	
			Off-balance acco	· · · · · · · · · · · · · · · · · · ·	Total
Service business	Distribution	General retail			
Service business	business	business	299,064		1,054,188
	ousiness	General wholesale	277,004	-	1,034,100
		business	237,678		1,047,792
		Sub-total	536,742		2,101,980
	Accommodation	business	181,563		1,647,213
			12,455		65,757
		e service	63,660		664,909
			179,799		1,459,143
		usiness	167,883		572,080
	_		191,837		1,242,665
			1,333,939		7,753,747
Manufacturing			1,012,989		3,650,924
Manuracturing					
			9,704		209,591
			48,171		196,666
			689,895		1,596,452
			33,389		136,930
			87,587 1,881,735		279,452 5,070,015
	Sao total .		1,001,733	,	-,-,-,

			1	December 31, 2022	
			Loans and other financial assets at amortized cost	Financial assets at FVTPL	Financial assets at FVTOCI
Service business	Distribution	General retail			
	business	business	1,157,537	824	6,296
		General wholesale	, ,		,
		business	1,801,361	1,659	
		Sub-total	2,958,898	2,483	6,296
	Accommodation	business	1,434,456	2,228	24,121
	Travel business		48,655	_	· —
		e service	1,780,739	1,012	_
			1,520,098	426	_
		usiness	357,940	181	_
	Education Busine	ess	425,779	169	_
	Others		1,560,457	773	_
	Sub-total		10,087,022	7,272	30,417
Manufacturing	Textile		2,361,092	767	8,898
	Metal		1,579,004	191	_
	Non-metal		796,671	1,529	7,629
	Chemical		3,649,189	158	_
	Electronics		1,409,475	58	
	Others		3,280,434	1,287	11,452
			13,075,865	3,990	27,979
	Total		23,162,887	11,262	58,396
			Г	December 31, 2022	
			Off-balance acco	•	Total
Service business	Distribution	General retail			
Service business	business	business	496,830	) 1	,661,487
	0.00111000	General wholesale	.,,,,,,,	•	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		business	533,368	3	2,336,388
		Sub-total	1,030,198		3,997,875
	Accommodation	business	161,573		,622,378
	Travel business		16,369		65,024
		e service	104,065		,885,816
	-		179,977		,700,501
	Transportation by		248,801		606,922
		ess	40,891		466,839
	Others		301,343	3 1	,862,573
			2,083,217		2,207,928
Manufacturing			1,076,002		3,446,759
Č			1,225,601		2,804,796
			381,014		,186,843
			3,627,183		,276,530
			1,202,758		2,612,291
			2,530,964		5,824,137

December 31, 2022

10,043,522

12,126,739

23,151,356

35,359,284

Sub-total .....

# < Woori Card Co., Ltd. >

		Decen	nber 31, 2021		
	Loans and other financial assets at amortized cost	Financial assets at FVTPL	Financial assets at FVTOCI	Off-balance accounts	Total
Accommodation business	2,341	_	_	11,472	13,813
Travel business	3,334	_	_	20,056	23,390
Aviation	983	_	_	4,025	5,008
Cosmetics industry	3,187	_	_	10,692	13,879
Distribution business	7,582	_	_	38,741	46,323
Food industry	30,267	_	_	122,793	153,060
Art/sports, leisure service	8,336	_	_	44,286	52,622
Total	56,030			252,065	308,095
		Decen	nber 31, 2022		
	Loans and other financial assets at amortized cost	Financial assets at FVTPL	Financial assets at FVTOCI	Off-balance accounts	Total
Accommodation business	5,562	_	_	9,762	15,324
Travel business	7,927	_	_	15,182	23,109
Aviation	1,072	_	_	3,760	4,832
Cosmetics industry	11,364	_	_	9,766	21,130
Distribution business	30,904	_	_	36,190	67,094
Food industry	134,006	_	_	115,695	249,701
Art/sports, leisure service	24,614			41,003	65,617
Total	215,449	_	_	231,358	446,807

			Loans and other financial assets at amortized cost	Financial assets at FVTPL	Financial assets at FVTOCI
Service business	Distribution	General retail			
Service outsiness	business	business	77,841	_	
	ousiness	General wholesale	77,041		
		business	292,832		
				_	_
	A 1	Sub-total	370,673	_	_
		business	7,338		
			57	_	_
		re service	8,544	_	_
			125,075		
		ousiness	598,972	_	_
		ess	22,118	_	_
	Others		102,787		
	Sub-total .		1,235,564		_
Manufacturing	Textile		727	_	_
C			2,824	_	_
			698		
			172	_	_
			438		
			3,993		
			685	_	
			108,540		
			118,077		
Total Co		le business		_	_
			1,353,641	20 222	_
Other business	Otners		6,489,394	28,222	
	Total		7,843,035	28,222	
			D	ecember 31, 2021	
			Off-balance acco	ecember 31, 2021	Total
Service business	Distribution	General retail			Total
Service business	Distribution business				<b>Total</b> 77,841
Service business		business			
Service business		business			77,841
Service business		business			77,841 292,832
Service business	business	business			77,841 292,832 370,673
Service business	business  Accommodation	business			77,841 292,832 370,673 7,338
Service business	Accommodation Travel business	business			77,841 292,832 370,673 7,338 57
Service business	Accommodation Travel business Art/sports, leisur	business			77,841 292,832 370,673 7,338 57 8,544
Service business	Accommodation Travel business Art/sports, leisur Food business .	business General wholesale business Sub-total business se service			77,841 292,832 370,673 7,338 57 8,544 125,075
Service business	Accommodation Travel business Art/sports, leisur Food business . Transportation b	business			77,841 292,832 370,673 7,338 57 8,544 125,075 598,972
Service business	Accommodation Travel business Art/sports, leisur Food business . Transportation b	business General wholesale business Sub-total business se service	Off-balance acco	unts	77,841 292,832 370,673 7,338 57 8,544 125,075 598,972 22,118
Service business	Accommodation Travel business Art/sports, leisur Food business . Transportation b Education busine Others	business	Off-balance acco	unts	77,841  292,832 370,673 7,338 57 8,544 125,075 598,972 22,118 243,336
	Accommodation Travel business Art/sports, leisur Food business . Transportation b Education busine Others	business General wholesale business Sub-total business re service susiness ess	Off-balance acco	unts	77,841  292,832 370,673 7,338 57 8,544 125,075 598,972 22,118 243,336 1,376,113
Service business  Manufacturing	Accommodation Travel business Art/sports, leisur Food business . Transportation b Education busine Others Sub-total .	business	Off-balance acco	unts	77,841  292,832 370,673 7,338 57 8,544 125,075 598,972 22,118 243,336
	Accommodation Travel business Art/sports, leisur Food business . Transportation b Education busine Others Sub-total . Textile	business General wholesale business Sub-total business re service susiness ess	Off-balance acco	unts	77,841  292,832 370,673 7,338 57 8,544 125,075 598,972 22,118 243,336 1,376,113
	Accommodation Travel business Art/sports, leisur Food business Transportation b Education busine Others Sub-total Textile Metal	business General wholesale business Sub-total business re service susiness ess	Off-balance acco	unts	77,841  292,832 370,673 7,338 57 8,544 125,075 598,972 22,118 243,336 1,376,113 727
	Accommodation Travel business Art/sports, leisur Food business Transportation b Education busine Others Sub-total Textile Metal Non-metal	business General wholesale business Sub-total a business re service susiness ess	Off-balance acco	unts	77,841  292,832 370,673 7,338 57 8,544 125,075 598,972 22,118 243,336 1,376,113 727 2,824
	Accommodation Travel business Art/sports, leisur Food business Transportation b Education busine Others Sub-total Textile Metal Non-metal Chemical	business General wholesale business Sub-total business re service susiness ess	Off-balance acco	unts	77,841  292,832 370,673 7,338 57 8,544 125,075 598,972 22,118 243,336 1,376,113 727 2,824 698 172
	Accommodation Travel business Art/sports, leisur Food business Transportation b Education busine Others Sub-total Textile Metal Non-metal Chemical Transportation	business General wholesale business Sub-total a business re service susiness ess	Off-balance acco	unts	77,841  292,832 370,673 7,338 57 8,544 125,075 598,972 22,118 243,336 1,376,113 727 2,824 698 172 438
	Accommodation Travel business Art/sports, leisur Food business Transportation b Education busine Others Sub-total Textile Metal Non-metal Chemical Transportation Electronics	business General wholesale business Sub-total a business re service business ess	Off-balance acco	unts	77,841  292,832 370,673 7,338 57 8,544 125,075 598,972 22,118 243,336 1,376,113 727 2,824 698 172 438 3,993
	Accommodation Travel business Art/sports, leisur Food business Transportation b Education busine Others Sub-total Textile Metal Non-metal Chemical Transportation Electronics Cosmetics	business General wholesale business Sub-total business re service susiness ess	Off-balance acco	Unts	77,841  292,832 370,673 7,338 57 8,544 125,075 598,972 22,118 243,336 1,376,113 727 2,824 698 172 438 3,993 685
	Accommodation Travel business Art/sports, leisur Food business Transportation b Education busine Others Sub-total Textile Metal Non-metal Chemical Transportation Electronics Cosmetics Others	business General wholesale business Sub-total a business re service susiness ess	Off-balance acco	unts	77,841  292,832 370,673 7,338 57 8,544 125,075 598,972 22,118 243,336 1,376,113 727 2,824 698 172 438 3,993 685 121,972
Manufacturing	Accommodation Travel business Art/sports, leisur Food business Transportation b Education busine Others Sub-total Textile Metal Non-metal Chemical Transportation Electronics Cosmetics Others Sub-total	business General wholesale business Sub-total a business re service susiness ess	Off-balance acco	unts	77,841  292,832 370,673 7,338 57 8,544 125,075 598,972 22,118 243,336 1,376,113 727 2,824 698 172 438 3,993 685 121,972 131,509
Manufacturing  Total Co	Accommodation Travel business Art/sports, leisur Food business Transportation b Education busine Others Sub-total Textile Metal Non-metal Chemical Transportation Electronics Cosmetics Others Sub-total Transportation Electronics Cosmetics Others Sub-total OVID-19 vulnerab	business General wholesale business Sub-total a business re service susiness ess	14 14 14 15	unts	77,841  292,832 370,673 7,338 57 8,544 125,075 598,972 22,118 243,336 1,376,113 727 2,824 698 172 438 3,993 685 121,972 131,509 1,507,622
Manufacturing	Accommodation Travel business Art/sports, leisur Food business . Transportation b Education busine Others Sub-total . Textile Metal Non-metal Chemical Transportation . Electronics Cosmetics Others Sub-total . Oviders Sub-total . Oviders	business General wholesale business Sub-total a business re service susiness ess	14 14 14 15 81	unts	77,841  292,832 370,673 7,338 57 8,544 125,075 598,972 22,118 243,336 1,376,113 727 2,824 698 172 438 3,993 685 121,972 131,509

December 31, 2021

			Γ	December 31, 2022	
			Loans and other financial assets at amortized cost	Financial assets at FVTPL	Financial assets at FVTOCI
Service business	Distribution	General retail			
	business	business	363,655	_	_
		business	266,515	_	_
		Sub-total	630,170	_	_
	Accommodation	business	40,237	_	_
			5,880	_	_
	Art/sports, leisure	service	66,388	_	_
			228,254	_	_
		siness	367,311	_	_
		SS	52,652	_	
			1,997,073		
			3,387,965		
Manufacturing			15,204		
Transfer to the top to			25,274	_	
			4,067	_	
			14,071		
			2,867		
	Electronics		28,202		
			1,192		
			235,972	_	_
			326,849	_	_
Total CO		e business	3,714,814	_	_
Other business			5,337,618	21,652	_
Other business					
	Total .		9,052,432	21,652	
			Г	ecember 31, 2022	
			Off-balance acco		Total
Service business	Distribution	General retail			
Service business	business	business			363,655
	business	General wholesale		_	
		business		_	266,515
	A	Sub-total		_	630,170
		business		_	40,237
		service		_	5,880
		service		_	66,388 228,254
		siness		_	367,311
		SS		_	52,652
			20	6,191	2,203,264
				6,191	3,594,156
Manufacturing			20		15,204
Manufacturing					25,274
				_	4,067
				_	14,071
					2,867
				_	28,202
				_	1,192
			1	9,892	255,864
				9,892	346,741
Total CO		business		6,083	3,940,897
Other business				7,025	5,706,295

573,108

# < Woori Investment Bank Co., Ltd. >

		Decen	nber 31, 2021		
	Loans and other financial assets at amortized cost	Financial assets at FVTPL	Financial assets at FVTOCI	Off-balance accounts	Total
Accommodation business	57,142	_	_	_	57,142
Distribution business	12,885	_	_	_	12,885
Art/sports, leisure service	31,772	_	_	_	31,772
Total	101,799	_		_	101,799
		Decen	nber 31, 2022		
	Loans and other financial assets at amortized cost	Financial assets at FVTPL	Financial assets at FVTOCI	Off-balance accounts	Total
Accommodation business	19,323	_		_	19,323
TS1 - 11 - 1 - 1	10.004	10.774			20.050
Distribution business	10,084	19,774	_		29,858
Art/sports, leisure service	59,160	19,774	_	_	29,838 59,160

# 4) Credit risk exposure

# a) Financial assets

The maximum exposure to credit risk by asset quality, except for financial assets at FVTPL and derivative asset (designated for hedging) as of December 31, 2021 and 2022 is as follows (Unit: Korean Won in millions):

	Sta	ige 1	Sta	ige 2			
	Above appropriate credit rating*1)	Less than a limited credit rating(*2)	Above appropriate credit rating*1)	Less than a limited credit rating <sup>(*2)</sup>	Stage 3	Total	Loss allowance Total, net
Loans and other financial assets at amortized							
cost  Korean treasury and government	303,317,270	22,734,430	13,270,491	10,190,307	1,332,644	350,845,142	(1,959,525) 348,885,617
agencies	2,211,798	9	9	_	_	2,211,816	(3,923) 2,207,893
Banks	23,865,911	492,447	46,373	_	23,509	24,428,240	(15,555) 24,412,685
Corporates	108,917,062	15,952,017	2,698,907	3,963,782	658,923	132,190,691	(1,163,435) 131,027,256
General							
business	68,767,641	9,010,115	1,886,740	2,597,136	438,537	82,700,169	(785,908) 81,914,261
Small- and medium-sized							
enterprise	33,306,787	6,459,338	790,750	1,353,313	156,440	42,066,628	(322,635) 41,743,993
Project financing							
and others	6,842,634	482,564	21,417	13,333	63,946	7,423,894	(54,892) 7,369,002
Consumers	168,322,499	6,289,957	10,525,202	6,226,525	650,212	192,014,395	(776,612) 191,237,783
Securities at amortized							
cost	17,091,509	_	_	_	_	17,091,509	(5,235) 17,086,274
Financial assets at							
$FVTOCI^{(*3)}\ \dots \dots \dots$	37,917,922	209,055	_	_	_	38,126,977	(12,146) 38,126,977
Total	358,326,701	22,943,485	13,270,491	10,190,307	1,332,644	406,063,628	(1,976,906) 404,098,868

	December 31, 2021				
	Collateral value				
	Stage1	Stage2	Stage3	Total	
Loans and other financial assets at amortized cost	208,188,057	18,098,940	643,183	226,930,180	
Korean treasury and government agencies	20,679	_	_	20,679	
Banks	1,287,055	_	_	1,287,055	
Corporates	74,403,502	4,796,510	351,837	79,551,849	
General business	40,288,663	3,120,790	220,792	43,630,245	
Small- and medium-sized enterprise	30,852,567	1,675,720	80,830	32,609,117	
Project financing and others	3,262,272	_	50,215	3,312,487	
Consumers	132,476,821	13,302,430	291,346	146,070,597	
Securities at amortized cost	_	_	_	_	
Financial assets at FVTOCI(*3)					
Total	208,188,057	18,098,940	643,183	226,930,180	

<sup>(\*1)</sup> Credit grade of corporates are AAA  $\sim$  BBB, and consumers are grades 1  $\sim$  6.

<sup>(\*3)</sup> Financial assets at FVTOCI has been disclosed as the amount before deducting loss allowance because loss allowance does not reduce the carrying amount.

	De				ember 31, 2	mber 31, 2022			
	Sta	ge 1	Sta	nge 2					
	Above appropriate credit rating(*1)	Less than a limited credit rating <sup>(*2)</sup>		Less than a limited credit rating(*2)	Stage 3	Credit impairment model	Total	Loss allowance	Total, net
Loans and other financial									
assets at amortized									
cost	308,498,799	23,391,187	13,061,081	11,533,632	1,447,967	313,717	358,246,383	(2,485,654)	355,760,729
Korean treasury and									
government									
agencies	2,879,057	39	_	_	_	_	2,879,096	(1,411)	2,877,685
Banks	21,182,445	393,181	2,125	_	18,053	_	21,595,804	(24,707)	21,571,097
Corporates	120,407,588	16,680,863	2,556,885	4,429,148	637,187	313,717	145,025,388	(1,517,536)	143,507,852
General									
business	74,939,770	9,291,691	1,754,620	3,083,232	421,659	_	89,490,972	(1,016,039)	88,474,933
Small- and medium-sized									
enterprise	34,965,279	6,751,297	754,668	1,257,741	173,818	_	43,902,803	(400,328)	43,502,475
Project									
financing and									
others			,			,	11,631,613		11,530,444
Consumers	164,029,709	6,317,104	10,502,071	7,104,484	792,727	_	188,746,095	(942,000)	187,804,095
Securities at amortized									
cost	28,276,901	_	_	_	_	_	28,276,901	(8,385)	28,268,516
Financial assets at									
FVTOCI(*3)	31,914,193	231,565					32,145,758	(11,805)	32,145,758
Total	368,689,893	23,622,752	13,061,081	11,533,632	1,447,967	313,717	418,669,042	(2,505,844)	416,175,003

<sup>(\*2)</sup> Credit grade of corporates are BBB-  $\sim$  C, and consumers are grades 7  $\sim$  10.

	December 31, 2022							
	Collateral value							
	Stage1	Stage2	Stage3	Credit impairment model	Total			
Loans and other financial assets at amortized								
cost	213,228,740	19,354,919	607,614	313,717	233,504,990			
Korean treasury and government								
agencies	24,276	_	_	_	24,276			
Banks	1,858,595	_	_	_	1,858,595			
Corporates	82,314,488	4,982,087	316,085	313,717	87,926,377			
General business	44,465,799	3,390,139	194,597	_	48,050,535			
Small- and medium-sized								
enterprise	32,503,289	1,537,173	84,798	_	34,125,260			
Project financing and others	5,345,400	54,775	36,690	313,717	5,750,582			
Consumers	129,031,381	14,372,832	291,528	_	143,695,742			
Securities at amortized cost	_	_	_	_	_			
Financial assets at FVTOCI(*3)								
Total	213,228,740	19,354,919	607,614	313,717	233,504,990			

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# b) Payment Guarantees and commitments

The credit quality of the payment guarantees and loan commitments as of December 31, 2021 and 2022 are as follows (Unit: Korean Won in millions):

			December 31	, 2021		
	Stag	e 1	Stag	e 2		_
Financial assets	Above appropriate credit rating(*1)	Less than a limited credit rating <sup>(*2)</sup>	Above appropriate credit rating(*1)	Less than a limited credit rating <sup>(*2)</sup>	Stage3	Total
Off-balance accounts:						
Payment Guarantees	11,560,908	1,037,142	47,549	275,166	67,044	12,987,809
Loan Commitments	107,916,434	3,591,413	2,072,348	832,173	2,094	114,414,462
Total	119,477,342	4,628,555	2,119,897	1,107,339	<u>69,138</u>	<u>127,402,271</u>

<sup>(\*1)</sup> Credit grade of corporates are AAA  $\sim$  BBB, and consumers are grades 1  $\sim$  6.

<sup>(\*2)</sup> Credit grade of corporate are BBB-  $\sim$  C, and consumers are grades  $7 \sim 10$ .

			December 31	, 2022		
	Stag	e 1	Stag	e 2		
Financial assets	Above appropriate credit rating(*1)	Less than a limited credit rating <sup>(*2)</sup>	Above appropriate credit rating <sup>(*1)</sup>	Less than a limited credit rating <sup>(*2)</sup>	Stage3	Total
Off-balance accounts:						
Payment Guarantees	10,790,470	846,997	25,826	245,061	13,232	11,921,586
Loan Commitments	113,169,542	2,610,173	1,638,982	753,139	234	118,172,070
Total	123,960,012	3,457,170	1,664,808	998,200	13,466	130,093,656

<sup>(\*1)</sup> Credit grade of corporates are AAA  $\sim$  BBB, and consumers are grades 1  $\sim$  6.

<sup>(\*1)</sup> Credit grade of corporates are AAA  $\sim$  BBB, and consumers are grades 1  $\sim$  6.

<sup>(\*2)</sup> Credit grade of corporates are BBB-  $\sim$  C, and consumers are grades 7  $\sim$  10.

<sup>(\*3)</sup> Financial assets at FVTOCI has been disclosed as the amount before deducting loss allowance because loss allowance does not reduce the carrying amount.

<sup>(\*2)</sup> Credit grade of corporate are BBB-  $\sim$  C, and consumers are grades 7  $\sim$  10.

## 5) Collateral and other credit enhancements

For the years ended December 31, 2021 and 2022, there have been no significant changes in the value of collateral or other credit enhancements held by the Group and there have been no significant changes in collateral or other credit enhancements due to changes in the collateral policy of the Group.

- 6) Among financial assets that measured loss allowance at lifetime expected credit losses, amortized costs before changes in contractual cash flows as of December 31, 2021 and 2022 are 145,594 million Won and 149,511 million Won, respectively, with net losses recognized along with the changes 11,734 million Won and 8,474 million Won, respectively.
- 7) The Group determines which loan is subject to write-off in accordance with internal guidelines and writes off loan receivables when it is determined that the loans are practically irrecoverable. For example, loans are practically irrecoverable when application is made for rehabilitation under the Debtor Rehabilitation and Bankruptcy Act and loans are confirmed as irrecoverable by the court's decision to waive debtor's obligation, or when it is impossible to recover the loan amount through legal means such as auctioning of debtor's assets or through any other means of recovery available.

As the Group manages receivables that have not lost the right of claim to the debtor for the grounds of incomplete statute limitation and uncollected receivables under the related laws as receivable charge-offs, the balance as of December 31, 2021 and 2022 are 10,107,413 million Won and 9,825,284 million Won. In addition, the contractual non-recoverable amount of financial assets amortized for the year ended December 31, 2022, but still in the process of recovery is 1,382,281 million Won.

### (2) Market risk

Market risk is the possible risk of loss arising from trading position and non-trading position as a result of the volatility of market factors such as interest rates, stock prices and foreign exchange rates.

# 1) Market risk management

Market risk management refers to the process of making and implementing decisions for the avoidance, acceptance or mitigation of risks by identifying the underlying source of the risks, measuring its level, and evaluating the appropriateness of the level of accepted market risks for both trading and non-trading activities.

# a) Trading activities

The Group uses the standard method and the internally developed model (the Bank) in measuring market risk for trading positions, and allocates market risk capital through the Risk Management Committee. Risk management departments of the Group and its subsidiaries manage limits in detail including those on risk and loss with their management result regularly reported to the Risk Management Committee.

Woori Bank, a subsidiary of the Group, uses the internal model approved by the Financial Supervisory Service to measure the VaR using the Historical Simulation Method based on a 99% confidence level and a 10-day retention period, and calculates equity capital required for market risk for calculating the BIS ratio. For internal management purposes, limit management is performed on a daily basis measuring VaR based on a 99% confidence and 1 day retention period. In addition, Woori Bank perform a daily verification that compares VaR measurement and profit and loss to verify the suitability of the model.

The minimum, maximum and average VaR of the Bank for the year December 31, 2021 and 2022, and the VaR of the Bank as of December 31, 2021 and 2022 are as follows (Unit: Korean Won in millions):

	December 31,		r the year er cember 31, i		December 31,	For the year ended December 31, 2022			
Risk factor	2021	Average	Maximum	Minimum	2022	Average	Maximum	Minimum	
Interest rate	4,177	4,681	14,017	2,405	11,800	8,847	11,987	4,298	
Stock price	2,972	3,637	6,676	1,609	7,055	6,590	12,448	1,806	
Foreign currencies	5,904	6,745	13,144	4,747	17,608	14,002	22,251	5,421	
Diversification	(6,072)	(7,300)	(20,006)	(3,627)	(17,354)	(12,725)	(19,640)	(4,201)	
Total $VaR^{(*)}$	6,981	7,763	13,831	5,134	19,109	16,714	27,046	7,324	

<sup>(\*)</sup> VaR (Value at Risk): Retention period of 1 day, Maximum expected losses under 99% level of confidence.

# b) Non-trading activities

From the end of 2019 for the Bank and the beginning of 2021 for non-banking subsidiaries, the Bank and its subsidiaries manage and measure interest risk for non-trading activities through  $\Delta$ NII(Change in Net Interest Income) and  $\Delta$ EVE(Change in Economic Value of Equity) in accordance with IRRBB(Interest Rate Risk in the Banking Book).

 $\Delta$ NII represents a change in net interest income that may occur over a certain period (e.g. one year) due to changes in interest rates, and  $\Delta$ EVE indicates the economic value changes in equity capital that could be caused by changes in interest rates affecting the present value of asset, liabilities, and off-balance accounts.

 $\Delta$ EVE and  $\Delta$ NII calculated on interest risk in banking book(IRRBB) basis for assets and liabilities by subsidiary as of December 31, 2021 and 2022 are as follows(Unit: Korean Won in millions):

	December 31, 2021		December	r 31, 2022
	$\Delta EVE^{(*1)}$	$\Delta NII^{(*2)}$	$\Delta EVE^{(*1)}$	$\Delta NII^{(*2)}$
Woori Bank	920,290	195,186	411,447	448,509
Woori Card Co., Ltd	126,576	59,114	139,005	185,637
Woori Financial Capital Co., Ltd.	58,794	1,384	43,098	13,814
Woori Investment Bank Co., Ltd.	17,607	5,556	26,311	8,229
Woori Asset Trust Co., Ltd.	820	1,709	1,137	6,736
Woori Asset Management Corp	1,411	504	913	1,299
Woori Savings Bank	15,175	949	6,618	10,348
Woori Private Equity Asset Management Co., Ltd	32	59	547	886
Woori Global Asset Management Co., Ltd	246	143	251	538
Woori Financial F&I Co., Ltd.	_	_	26,069	219

<sup>(\*1)</sup> ΔEVE: change in Economic Value of Equity

<sup>(\*2)</sup> ΔNII: change in Net Interest Income

At the interest rate re-pricing date, cash flows (both principal and interest) of interest bearing assets and liabilities, which is the basis of non-trading position interest rate risk management are as follows: (Unit: Korean Won in millions):

			De	cember 31, 202	21		
	Within 3 months	4 to 6 months	7 to 9 months	10 to 12 months	1 to 5 years	Over 5 years	Total
Asset:							
Loans and other financial assets at amortized							
cost Financial assets at	205,915,030	58,661,091	14,461,769	12,840,318	62,337,321	5,204,605	359,420,134
FVTPL Financial assets at	1,725,063	52,361	49,843	17,817	223,107	13,501	2,081,692
FVTOCI Securities at	5,489,649	4,741,319	3,915,011	4,139,102	19,962,071	634,111	38,881,263
amortized cost	1,297,865	847,134	813,405	949,475	11,990,559	2,116,986	18,015,424
Total	<u>214,427,607</u>	<u>64,301,905</u>	<u>19,240,028</u>	<u>17,946,712</u>	94,513,058	7,969,203	<u>418,398,513</u>
Liability:							
Deposits due to							
customers							
Borrowings							24,468,890
Debentures							46,119,057
Total	165,493,118	54,997,145	38,327,258	33,330,592	92,791,939	3,830,099	388,770,151
				cember 31, 202	22		
	Within 3 months	4 to 6 months	7 to 9 months	10 to 12 months	1 to 5 years	Over 5 years	Total
Asset:							
Loans and other financial assets at amortized							
cost Financial assets at	224,863,400	56,669,335	15,469,920	15,108,779	59,454,649	5,963,926	377,530,009
FVTPL Financial assets at	1,888,996	119,725	1,364	4,670	71,620	13,129	2,099,504
FVTOCI Securities at amortized	6,093,805	4,224,460	3,014,625	3,550,982	15,409,527	584,203	32,877,602
cost	2,749,432	1,806,804	1,768,936	1,427,736	20,126,354	2,100,203	29,979,465
Total	235,595,633	62,820,324	20,254,845	20,092,167	95,062,150	8,661,461	442,486,580
Liability:							
Deposits due to							
customers	167,237,029	49,107,093	33,506,265	40,006,233	55,855,781	69,861	345,782,262
Borrowings							28,840,718
Debentures	9,068,737	4,905,727	4,633,137	4,962,350	19,621,659	3,298,581	46,490,191
Total	191,134,790	<u>58,171,916</u>	39,681,742	46,151,914	82,132,042	3,840,767	421,113,171

# 2) Currency risk

Currency risk arises from the financial instruments denominated in foreign currencies other than the functional currency. Therefore, no currency risk arises from non-monetary items or financial instruments denominated in the functional currency.

Financial instruments in foreign currencies exposed to currency risk as of December 31, 2021 and 2022 are as follows (Unit: USD in millions, JPY in millions, CNY in millions, EUR in millions, and Korean Won in millions):

					Decemb	er 31, 2021				
	U	ISD	J	PY	C	NY	E	UR	Others	Total
	Foreign currency	Korean Won equivalent	Korean Won equivalent	Korean Won equivalent						
Asset										
Cash and cash										
equivalents	3,176	3,765,800	32,829	338,222	1,236	230,188	94	125,513	971,774	5,431,497
Loans and other financial assets at amortized										
cost	28,771	34,107,769	147,981	1,504,891	23,733	4,420,551	2,329	3,126,363	5,604,781	48,764,355
Financial assets at										
FVTPL	468	556,296	14,618	150,596		_	327	438,662	71,369	1,216,923
Financial assets at	2.105	2.707.466			2.000	726.210	22	44.620	741.240	5 200 562
FVTOCI	3,195	3,787,466	_	_	3,899	726,310	33	44,638	741,348	5,299,762
Securities at amortized										
cost	240	283,935			499	92,917	29	39,142	138,422	554,416
Total	35,850	42,501,266	195,428	1,993,709	29,367	5,469,966	2,812	3,774,318	7,527,694	61,266,953
Liability										
Financial liabilities										
at FVTPL	274	324,420	16,384	168,798	_	_	239	321,354	203,523	1,018,095
Deposits due to										
customers		23,476,384		2,261,520	26,342	4,906,441	1,640	2,201,233	4,798,322	37,643,900
Borrowings		6,835,191	31,601	325,745	_	_	349	469,124	1,395,597	9,025,657
Debentures	3,566	4,228,055	_	_	_	_	_	_	341,621	4,569,676
Other financial liabilities	2,739	3,247,454	10,673	109,958	2,658	495,125	335	449,897	211,392	4,513,826
nabilities										
Total	32,148	38,111,504	278,172	2,866,021	29,000	5,401,566	2,563	3,441,608	6,950,455	56,771,154
Off-balance accounts	8,047	9,540,185	32,777	337,685	2,533	471,852	598	803,357	1,250,186	12,403,265

	USD JPY			NY	E	UR	Others	Total		
	Foreign	Korean Won equivalent	Foreign	Korean Won	Foreign	Korean Won	Foreign	Korean Won	Korean Won	Korean Won
Asset										
Cash and cash equivalents Loans and other financial assets at amortized	9,041	11,457,194	64,824	617,888	1,542	279,779	484	653,870	1,022,909	14,031,640
cost	24,361	30,872,442	116,298	1,108,529	24,637	4,470,059	2,510	3,391,155	4,952,002	44,794,187
Financial assets at FVTPL	970	1,229,059	25,416	242,260	_	_	358	484,172	176,057	2,131,548
Financial assets at FVTOCI	3,307	4,191,383	_	_	3,999	725,511	2	2,573	725,271	5,644,738
Securities at amortized cost		729,811			3,540	642,214	69	93,250	206,497	1,671,772
Total	38,255	48,479,889	206,538	1,968,677	33,718	6,117,563	3,423	4,625,020	7,082,736	68,273,885
Liability Financial liabilities at FVTPL	415	526,553	26,766	255,128			322	434,590	274,895	1,491,166
Deposits due to	413	320,333	20,700	233,126	_		322	434,390	214,093	1,491,100
customers	24,569	31,135,881	227,260	2,166,196	28,125	5,102,886	2,108	2,847,863	5,008,487	46,261,313
Borrowings	6,894	8,737,229	44,365	422,876	1,023	185,652	431	582,034	2,179,085	12,106,876
Debentures	4,174	5,289,246	_	_	_	_	195	263,187	339,188	5,891,621
Other financial liabilities	3,040	3,852,255	8,685	82,783	4,295	779,233	380	513,285	200,249	5,427,805
Total	39,092	49,541,164	307,076	2,926,983	33,443	6,067,771	3,436	4,640,959	8,001,904	71,178,781
Off-balance accounts	6,698	8,488,374	34,512	328,964	1,141	207,012	787	1,063,680	868,470	10,956,500

December 31, 2022

# 3) Interest Rate Benchmark Reform Risk Management

The Group closely monitors the outputs and markets of various industrial working groups that manage the transition to new interest rate benchmark, which includes announcements by LIBOR regulators.

A fundamental shift in interest rate indicators (hereinafter referred to as "interest rate benchmark reform") is taking place around the world, and some Interbank Offered Rates ("IBORs") are being replaced by new risk-free rates. In particular, for the case of LIBOR, except for USD LIBOR for overnight rate, 1, 3, 6, and 12 month rates, all of the calculations were suspended as of December 31, 2021, and the aforementioned 5 USD LIBORs will also be suspended as of June 30, 2023.

The Group established a LIBOR-related response plan consisting of the business flow of risk management, accounting, tax, law, computerization and customer management. The purpose of the plan is to identify the impact and risks associated with interest rate benchmark reform within the business, and to prepare and implement an action plan to ensure a smooth transition to alternative interest rates. The Group aims to close the response plan in line with the supervisory authority's response guidelines.

## <Woori Bank>

The details of Woori Bank's financial instruments that have not completed the conversion to the LIBOR-related interest rates benchmark at the end of the year are as follows: Non-derivative financial instrument is presented at the carrying amount, while the derivative financial instrument is presented at the nominal amount.

		Decembe	r 31.2022
		US	D(*1)
		Total Amount(*2)	Interest Rate Provision
Non-derivative financial assets	Financial assets at FVTOCI	514,935	355,247
	Financial assets at amortized cost	4,214,876	3,237,567
	Total	4,729,811	3,592,814
Non-derivative financial liabilities	Financial liabilities at amortized cost	89,326	89,326
Derivatives	Interest rate(trading)	26,210,037	26,208,438
	Currency(trading)	33,886,969	33,598,769
	Interest rate(hedging)	2,344,505	2,344,505
	Total	62,441,511	62,151,712

<sup>(\*1)</sup> Financial instruments related to USD Libor (overnight rate, 1, 3, 6, 12 month rates) that are expired before June 30, 2023 are excluded.

The KRW CD rates are planned to be replaced by the Korea Overnight Financing Repo Rate (KOFR) in the long run, but when the CD rates will be ceased or the policy response directions to activate alternative rates are not clear.

# < Woori Card Co., Ltd. >

The hedging relationship in which Woori Card applies cash flow risk hedge is affected by interest rate indicators related to interest rate benchmark reform. The interest rate benchmarks for which the hedging relationship is exposed are USD 1M LIBOR and USD 3M LIBOR. The nominal amounts of hedging instruments associated with 1M LIBOR and 3M LIBOR among the hedging relationships of Woori Card are USD 270,000,000 and USD 100,000,000, respectively. Woori Card is closely monitoring market and industry discussions regarding applicable alternative benchmark interest rates for exposed interest rate benchmarks, and believes that this uncertainty will no longer appear when exposed interest benchmarks are replaced by applicable interest rates.

# <Woori Financial Capital Co., Ltd.>

The hedging relationship in which Woori Financial Capital applies cash flow risk hedge accounting is affected by interest rate benchmarks related to interest rate benchmark reform. The interest rate benchmark with the corresponding hedging relationship exposed is the KRW 3M CD. The nominal amount of the hedging instrument associated with the KRW 3M CD of Woori Financial Capital's hedging relationship is KRW 40 billion. Woori Financial Capital is closely watching market and industry discussions regarding applicable alternative benchmark interest rates for exposed interest rate benchmarks, and believes that this uncertainty will no longer appear when exposed interest benchmarks are replaced by applicable interest rates.

<sup>(\*2)</sup> For contracts that do not have an interest rate alternative clause, The Group is in the process of negotiating to add an interest rate alternative clause.

# (3) Liquidity risk

Liquidity risk refers to the risk that the Group may encounter difficulties in meeting obligations from its financial liabilities.

# 1) Liquidity risk management

Liquidity risk management is to prevent potential cash shortages as a result of mismatching maturity of assets and liabilities or unexpected cash outflows. The the consolidated financial liabilities that are relevant to liquidity risk are incorporated within the scope of risk management. Derivatives instruments are excluded from those financial liabilities as they reflect expected cash flows for a pre-determined period.

Assets and liabilities are grouped by account under Asset Liability Management ("ALM") in accordance with the characteristics of the account. The Group manages liquidity risk by identifying the maturity gap and such gap ratio through various cash flows analysis (i.e. based on remaining maturity and contract period, etc.), while maintaining the gap ratio at or below the target limit.

The information on early repayment related to asset securitization is described in NOTE 40. CONTINGENT LIABILITIES AND COMMITMENTS (4) 3).

# 2) Maturity analysis of non-derivative financial liabilities

a) Cash flows of principals and interests by remaining contractual maturities of non-derivative financial liabilities as of December 31, 2021 and 2022 are as follows (Unit: Korean Won in millions):

			De	cember 31, 202	1		
	Within 3 months	4 to 6 months	7 to 9 months	10 to 12 months	1 to 5 years	Over 5 years	Total
Financial liabilities at							
FVTPL	100,976	10,397	91,785	107,230	_	_	310,388
Deposits due to							
customers	224,881,863	32,559,199	20,290,566	31,768,748	9,213,279	1,615,198	320,328,853
Borrowings	9,477,536	4,366,223	2,415,548	2,494,732	5,800,815	440,506	24,995,360
Debentures	3,068,600	4,201,926	5,316,672	5,371,869	24,982,746	3,342,284	46,284,097
Lease liabilities	41,731	53,245	30,148	25,494	156,228	38,275	345,121
Other financial							
liabilities	17,614,313	290,584	12,190	11,894	610,514	1,999,198	20,538,693
Total	255,185,019	41,481,574	28,156,909	39,779,967	40,763,582	7,435,461	412,802,512
			De	cember 31, 202	22		
	Within 3 months	4 to 6 months	7 to 9 months	10 to 12 months	1 to 5 years	Over 5 years	Total
Financial liabilities at			7 to 9	10 to 12	1 to 5		Total
Financial liabilities at FVTPL	months		7 to 9	10 to 12	1 to 5	5 years	
FVTPL			7 to 9	10 to 12	1 to 5		Total 47,274
	35,161	months	7 to 9 months	10 to 12 months	1 to 5 years	5 years 12,113	47,274
FVTPL	35,161 228,890,427	months — 36,851,103	7 to 9 months — 24,091,740	10 to 12 months  42,652,679	1 to 5 years	5 years 12,113	47,274 349,008,295
FVTPL Deposits due to	35,161 228,890,427 8,969,648	months  36,851,103 5,734,715	7 to 9 months  24,091,740 3,210,812	10 to 12 months  42,652,679 3,156,211	1 to 5 years — 14,999,516	5 years 12,113 1,522,830 484,909	47,274 349,008,295 29,013,535
FVTPL	35,161 228,890,427	months  36,851,103 5,734,715	7 to 9 months  24,091,740 3,210,812	10 to 12 months  42,652,679 3,156,211	1 to 5 years   14,999,516 7,457,240 19,621,659	12,113 1,522,830 484,909 3,298,581	47,274 349,008,295 29,013,535
FVTPL	35,161 228,890,427 8,969,648 6,348,064	months  36,851,103 5,734,715 6,841,379	7 to 9 months  24,091,740 3,210,812 5,211,032	10 to 12 months  42,652,679 3,156,211 5,214,942	1 to 5 years   14,999,516 7,457,240 19,621,659	12,113 1,522,830 484,909 3,298,581	47,274 349,008,295 29,013,535 46,535,657
FVTPL	35,161 228,890,427 8,969,648 6,348,064 68,279	months  36,851,103 5,734,715 6,841,379 36,724	7 to 9 months  24,091,740 3,210,812 5,211,032 35,136	10 to 12 months  42,652,679 3,156,211 5,214,942	1 to 5 years   14,999,516 7,457,240 19,621,659 151,379	12,113 1,522,830 484,909 3,298,581	47,274 349,008,295 29,013,535 46,535,657
FVTPL Deposits due to customers Borrowings Debentures Lease liabilities Other financial liabilities	35,161 228,890,427 8,969,648 6,348,064 68,279	months  36,851,103 5,734,715 6,841,379 36,724  113,049	7 to 9 months  24,091,740 3,210,812 5,211,032 35,136  19,370	10 to 12 months  42,652,679 3,156,211 5,214,942 29,646 20,315	1 to 5 years   14,999,516 7,457,240 19,621,659 151,379  765,870	12,113 1,522,830 484,909 3,298,581 33,007 3,037,563	47,274 349,008,295 29,013,535 46,535,657 354,171 18,365,543

b) Cash flows of principals and interests by expected maturities of non-derivative financial liabilities as of December 31, 2021 and 2022 are as follows (Unit: Korean Won in millions):

			De	cember 31, 202	21		
	Within 3 months	4 to 6 months	7 to 9 months	10 to 12 months	1 to 5 years	Over 5 years	Total
Financial liabilities at							
FVTPL	100,976	10,397	91,785	107,230	_		310,388
Deposits due to							
customers	230,823,884	33,705,990	20,107,790	27,331,774	7,871,688	89,643	319,930,769
Borrowings	9,477,536	4,366,223	2,415,548	2,494,732	5,800,815	440,506	24,995,360
Debentures	3,068,600	4,201,926	5,316,672	5,371,869	24,982,746	3,342,284	46,284,097
Lease liabilities	41,716	53,260	30,216	25,653	162,092	41,814	354,751
Other financial							
liabilities	17,614,313	290,584	12,190	11,894	610,514	1,999,198	20,538,693
Total	<u>261,127,025</u>	<u>42,628,380</u>	<u>27,974,201</u>	<u>35,343,152</u>	<u>39,427,855</u>	<u>5,913,445</u>	<u>412,414,058</u>
	December 31, 2022						
			De	cember 31, 202	22		
	Within 3 months	4 to 6 months	7 to 9 months	cember 31, 202 10 to 12 months	1 to 5 years	Over 5 years	Total
Financial liabilities at			7 to 9	10 to 12	1 to 5		Total
Financial liabilities at FVTPL			7 to 9	10 to 12	1 to 5		
FVTPL	months		7 to 9	10 to 12	1 to 5	years	
FVTPL	35,161	months	7 to 9 months	10 to 12 months	1 to 5 years	<u>years</u> 12,113	
FVTPL	35,161	months	7 to 9 months	10 to 12 months	1 to 5 years	<u>years</u> 12,113	47,274
FVTPL	35,161 242,132,680	months — 41,113,768	7 to 9 months  — 24,269,363	29,670,943 3,156,211	1 to 5 years — 10,490,993	12,113 56,013 484,909	47,274 347,733,760
FVTPL	35,161 242,132,680 8,969,648	months 41,113,768 5,734,715	7 to 9 months — 24,269,363 3,210,812	29,670,943 3,156,211	1 to 5 years — 10,490,993 7,457,240	12,113 56,013 484,909	47,274 347,733,760 29,013,535
FVTPL Deposits due to customers Borrowings Debentures Lease liabilities Other financial	35,161 242,132,680 8,969,648 6,348,064 68,344	months  41,113,768 5,734,715 6,841,379 36,729	7 to 9 months  24,269,363 3,210,812 5,211,032 35,377	29,670,943 3,156,211 5,214,942 29,948	1 to 5 years   10,490,993 7,457,240 19,621,659	12,113 56,013 484,909 3,298,581	47,274 347,733,760 29,013,535 46,535,657
FVTPL	35,161 242,132,680 8,969,648 6,348,064 68,344	months  41,113,768 5,734,715 6,841,379	7 to 9 months  24,269,363 3,210,812 5,211,032 35,377	29,670,943 3,156,211 5,214,942	1 to 5 years  —  10,490,993 7,457,240 19,621,659 157,361	12,113 56,013 484,909 3,298,581	47,274 347,733,760 29,013,535 46,535,657

## 3) Maturity analysis of derivative financial liabilities

Derivatives held for trading purpose are not managed in accordance with their contractual maturity, since the Group holds such financial instruments with the purpose of disposing or redemption before their maturity. As such, those derivatives are incorporated as "within 3 months" in the table below. Derivatives designated for hedging purpose are estimated by offsetting cash inflows and cash outflows.

The cash flow by the maturity of derivative financial liabilities as of December 31, 2021 and 2022 is as follows (Unit: Korean Won in millions):

		Remaining maturity						
		Within 3 months	4 to 6 months	7 to 9 months	10 to 12 months	1 to 5 years	Over 5 years	Total
December 31,	Cash flow risk hedge	246	(206)	(502)	(717)	(2,744)	(4,053)	(7,976)
2021	Fair value risk hedge	(1,656)	598	(940)	1,392	21,552	_	20,946
	Trading purpose	4,566,443	_	_	_	_	_	4,566,443
December 31,	Cash flow risk hedge	856	905	915	1,255	50,682	_	54,613
2022	Fair value risk hedge	25,048	16,175	31,974	18,540	118,027	(3,615)	206,149
	Trading purpose	8,905,125	_	_	_	_	_	8,905,125

#### 4) Maturity analysis of off-balance accounts (Payment guarantees, commitments, and etcs)

A payment guarantee represents an irrevocable undertaking that the Group should meet a customer's obligations to third parties if the customer fails to do so. The loan commitment represents the limit if the Group has promised a credit to the customer. Loan commitments include commercial standby facilities and credit lines, liquidity facilities to commercial paper conduits and utilized overdraft facilities. The maximum limit to be paid by the Group in accordance with guarantees and loan commitment only applies to principal amounts. There are contractual maturities for payment guarantees, such as financial guarantees for debentures issued or loans, unused loan commitments, and other credits, however, under the terms of the guarantees and unused loan commitments, funds should be paid upon demand from the counterparty. Details of off-balance accounts as of December 31, 2021 and 2022 are as follows (Unit: Korean Won in millions):

	December 31, 2021	December 31, 2022
Payment guarantees	12,987,809	11,921,586
Loan commitments	114,414,462	118,172,070
Other commitments	3,427,331	4,602,429

#### (4) Operational risk

The Group defines the operational risk that could cause a negative effect on capital resulting from inadequate internal process, labor work and systematic problem or external factors.

#### 1) Operational risk management

The Group has established and operated an operating risk management system to strengthen external competitiveness, reduce risk capital volume, enhance operational risk management capacity and prevent accidents through compliance with Basel II, and has obtained approval from the Financial Supervisory Service for "Advanced Measurement Approaches" (AMA) based on self-compliance verification and independent third-party inspection results.

#### 2) Operational risk measurement

The Group is applying the basic indicator method for the purpose of calculating the regulatory capital of operation risk, and the Bank is applying the Advanced Measurement Approaches. The Bank applies AMA using internal and external loss data, business environment and internal control factors, and scenario analysis.

## (5) Capital management

The Group complies with the standard of capital adequacy provided by financial regulatory authorities. The capital adequacy standard is based on Basel III published by Basel Committee on Banking Supervision in Bank for International Settlement and was implemented in Korea in December 2013. The capital adequacy ratio is calculated by dividing own capital by asset (weighted with a risk premium – risk weighted assets) based on the consolidated financial statements of the Group.

According to the above regulations, the Group is required to meet the following minimum requirements: Tier 1 common capital ratio of 8.0%, a Tier 1 capital ratio of 9.5%, and a total capital ratio of 11.5% as of December 31, 2021 and 2022

Details of the Group's capital adequacy ratio as of December 31, 2021 and 2022 are as follows (Unit: Korean Won in millions):

<u>Details</u>	<b>December 31, 2021</b>	<b>December 31, 2022</b>
Tier 1 capital	21,994,047	23,757,296
Other Tier 1 capital	3,590,212	4,208,994
Tier 2 capital	3,395,989	3,437,735
Total risk-adjusted capital	28,980,248	31,404,025
Risk-weighted assets for credit risk	171,199,840	182,028,062
Risk-weighted assets for market risk	6,388,428	6,759,527
Risk-weighted assets for operational risk	14,914,801	16,519,885
Total risk-weighted assets	192,503,069	205,307,474
Common Equity Tier 1 ratio	11.43%	11.57%
Tier 1 capital ratio	13.29%	13.62%
Total capital ratio	15.05%	15.30%

#### 5. OPERATING SEGMENTS

In evaluating the results of the Group and allocating resources, the Group's Chief Operation Decision Maker ("CODM") utilizes the information per type of customers. With the establishment of Woori Financial Group Inc. during the prior term, the Group reports to the CODM according to the organizational sectors below. This financial information of the segments is regularly reviewed by the CODM to make decisions about resources to be allocated to each segment and evaluate its performance.

## (1) Segment by type of organization

The Group's reporting segments consist of banking, credit card, capital, comprehensive finance and other sectors, and the composition of such reporting segments was divided based on internal report data periodically reviewed by the management to evaluate the performance of the segment and make decisions on the resources to be distributed.

	Operational scope						
Banking	Loans/deposits and relevant services for customers of Woori Bank and its subsidiaries						
Credit card	Credit card, cash services, card loans and accompanying business of Woori Card Co., Ltd.						
Capital	Installments, loans including lease financing, and accompanying business of Woori Financial Capital Co., Ltd.						
Investment Banking	Securities operation, sale of financial instruments, project financing and other related activities for comprehensive financing of Woori Investment bank Co., Ltd.						
Others	Woori Financial Group Inc., Woori Asset Trust Co., Ltd., Woori Asset Management Corp., Ltd., Woori Financial F&I Co., Ltd., Woori Savings Bank., Woori Credit Information Co., Ltd., Woori Fund Services Inc., Woori Private Equity Asset Management Co., Ltd., Woori Global Asset Management Co., Ltd., Woori FIS Co., Ltd. and Woori Finance Research Institute,						

(2) The composition of each organization's sectors for the years ended December 31, 2020, 2021 and 2022 are as follows (Unit: Korean Won in millions):

		For the year ended December 31, 2020							
	Banking	Credit card	Investment banking	Others(*1)	Sub-total	Other adjustments(*2)	Internal adjustments(*3)	consolidated adjustments(*4)	Total
Net Interest income	4,545,155	564,461	78,302	69,188	5,257,106	52,171	692,298	(3,063)	5,998,512
(expense)	1,423,286	3,648	34,497	1,071,852	2,533,283	(19,082)	(676,483)	(1,015,284)	822,434
loss	(512,008)	(195,816)	(4,146)	(43,660)	(755,630)	(808)	(17,138)	(10,795)	(784,371)
expense	(3,545,186)	(207,301)	(39,039)	(416,595)	(4,208,121)	(2,921)		254,861	(3,956,181)
Net operating income (expense)	1,911,247	164,992	69,614	680,785	2,826,638	29,360	(1,323)	(774,281)	2,080,394
Share of gain (loss) of associates Other non-operating	(6,895)	_	170	1,255	(5,470)	(22,047)	_	128,594	101,077
expense Non-operating income	(50,132)	(5,569)	(945)	(484)	(57,130)	33,895	1,323	(158,308)	(180,220)
(expense)	(57,027)	(5,569)	(775)	771	(62,600)	11,848	1,323	(29,714)	(79,143)
Net income (expense) before tax	1,854,220 (437,288)	159,423 (39,193)	68,839 (5,902)	681,556 (29,372)	2,764,038 (511,755)	41,208 29	=	(803,995) 25,724	2,001,251 (486,002)
Net income (loss)	1,416,932	120,230	62,937	652,184	2,252,283	41,237		(778,271)	1,515,249
Total assets	374,120,064	11,366,596	4,332,474	31,872,690	421,691,824	5,643,135		(28,253,942)	399,081,017
Investment in associate Other assets	3,382,650 370,737,414	11,366,596	2,494 4,329,980	21,586,506 10,286,184	24,971,650 396,720,174	10,194 5,632,941		(23,988,553) (4,265,389)	993,291 398,087,726
Total liabilities	348,706,682	9,312,986	3,803,594	9,606,742	371,430,004	4,643,899		(3,718,731)	372,355,172

<sup>(\*1)</sup> Other segments include gains and losses from Woori Financial Group Inc., Woori Financial Capital Co., Ltd. (Profit or loss for 3 months after incorporation into subsidiary), Woori Asset Trust Co., Ltd., Woori Asset Management Corp., Woori Credit Information Co., Ltd., Woori Fund Service Inc., Woori Private Equity Asset Management Co., Ltd., Woori Global Asset Management Co., Ltd., Woori Fis Co., Ltd. and Woori Finance Research Co., Ltd.

<sup>(\*4)</sup> Consolidation adjustments include the elimination of KRW 252,922 million of internal transactions between Woori FIS Co., Ltd., the group's IT service agency, and affiliates, and the removal of KRW 680,375 million of dividends received by the holding company from its subsidiaries.

		For the year ended December 31, 2021								
	Banking	Credit card	Capital	Investment banking	Others(*1)	Sub-total	Other adjustments(*2)	Internal adjustments(*3)	consolidated adjustments(*4)	Total
Net interest income Non-interest	5,158,078	606,506	315,600	108,321	29,515	6,218,020	9,938	758,559	(796)	6,985,721
income(expense) Impairment losses due to	1,661,903	63,839	95,297	49,419	1,111,422	2,981,880	16,431	(670,230)	(969,804)	1,358,277
credit loss	(140,574)	(164,097)	(122,089)	(1,885)	(19,601)	(448,246)	_	(89,683)	1,091	(536,838)
expense	(3,606,715)	(225,175)	(99,048)	(51,490)	(440,601)	(4,423,029)	(256)		275,874	(4,147,411)
Net operating income(expense)	3,072,692	281,073	189,760	104,365	680,735	4,328,625	26,113	(1,354)	(693,635)	3,659,749
Share of gain of associates Other non-operating	60,049	_	1,000	750	4,390	66,189	51	_	(4,044)	62,196
expense	(19,654)	(7,936)	(16,943)	(660)	(1,071)	(46,264)	2,956	1,354	7,054	(34,900)
Non-operating income(expense)	40,395	(7,936)	(15,943)	90	3,319	19,925	3,007	1,354	3,010	27,296
Net income(expense) before tax Tax expense	3,113,087 (773,073)	273,137 (72,411)	173,817 (33,238)	104,455 (24,531)	684,054 (16,799)	4,348,550 (920,052)	29,120	=	(690,625) (4,714)	3,687,045 (924,766)
Net income(loss)	2,340,014	200,726	140,579	79,924	667,255	3,428,498	29,120		(695,339)	2,762,279
Total assets	415,976,627	14,116,832	10,259,868	5,159,742	25,627,649	471,140,718	1,101,162		(25,058,009)	447,183,871
Investment in associate Other assets	858,706 415,117,921	14,116,832	12,403 10,247,465		22,165,895 3,461,754	23,045,850 448,094,868	35,134 1,066,028		(21,745,817) (3,312,192)	1,335,167 445,848,704
Total liabilities	391,360,200	11,858,065	9,073,104	4,559,856	3,284,269	420,135,494	54,595		(1,811,321)	418,378,768

<sup>(\*1)</sup> Other segments include gains and losses from Woori Financial Group Inc., Woori Asset Trust Co., Ltd., Woori Savings Bank, Woori Asset Management Corp., Woori Financial F&I Co., Ltd., Woori Credit Information Co., Ltd., Woori Fund Service Co., Ltd., Woori Private Equity Asset Management Co., Ltd., Woori Global Asset Management Co., Ltd., Woori Fisance Research Institute.

<sup>(\*2)</sup> Other segments includes the funds subject to Group's consolidated not included in the reporting segment.

<sup>(\*3)</sup> Internal reconciliation includes the adjustment of deposit insurance premiums of KRW 371,054 million and fund contribution fees of KRW 327,911 million from net interest income expenses to non-interest income expenses in order to present the profit and loss adjustment between reporting divisions in accordance with management accounting standards as profit and loss in accordance with accounting standards

<sup>(\*2)</sup> Other segments includes the funds subject to Group's consolidated not included in the reporting segment.

- (\*3) Internal reconciliation includes the adjustment of deposit insurance premiums of KRW 406,276 million and fund contribution fees of KRW 367,961 million from net interest income expenses to non-interest income expenses in order to present the profit and loss adjustment between reporting divisions in accordance with management accounting standards as profit and loss in accordance with accounting standards
- (\*4) Consolidation adjustments include the elimination of KRW 274,768 million of internal transactions between Woori FIS Co., Ltd., the group's IT service agency, and affiliates, and the removal of KRW 692,605 million of dividends received by the holding company from its subsidiaries.

For the year ended December 31, 2022 Consolidated Other Internal adjustments (\*3) Investment adjustments (\*2) Adjustments Credit card Banking Capital banking Others (\*1) Sub-total (\*4)Total Net interest income 6,603,834 675,250 376,133 117,867 73,800 7,846,884 34,307 817,543 (2,155)8,696,579 110,888 1,520,576 83,428 82,885 1,750,203 3,547,980 17,498 (761,029)(1,655,342)1,149,107 (426,552)(238,607) (107,906)(16,491)(38,319)(827,875)(57,992)595 (885,272) General and administrative (409)expense (3,914,672)(262,525)(99,872)(61,631)(493,502)(4,832,202)302,721 (4,529,890)Net operating income(expense) 3,783,186 285,006 251,783 122,630 1,292,182 5,734,787 51,396 (1,478)(1,354,181)4,430,524 Share of gain of 73,958 1,430 334 2,173 77,895 (182)(7,717)69,996 Other non-operating 67,759 (6,373)(1,835)(1,399)(2,386)55,766 2,371 1,478 (12,565)47,050 expense . Non-operating income(expense) 141,717 (6,373)(405)(1,065)(213)133,661 2,189 1,478 (20,282)117,046 Net income(expense) before 278,633 (73,869) 121,565 (29,771) (1,374,463) 3.924.903 251.378 1,291,969 5.868.448 53,585 4.547.570 (68,050) (976,402)(1,178,496)(26,739)(1,174,831)(3,665)2,948,501 1,265,230 204,764 91.794 4,693,617 53.585 (1,378,128)3.369.074 Net income(loss) . . . . . 183,328 Total assets ..... 443,340,979 16,118,967 12,581,473 5,657,191 28,059,619 505,758,229 2,019,322 (27,303,155) 480,474,396 Investment in associate 917 581 40.987 6,548 22 427 853 23 392 969 29 658 (22.116.991) 1 305 636 442,423,398 5,650,643 16,118,967 12,540,486 5,631,766 989,664 (5,186,164) 479,168,760 Other assets . . . . . . 482,365,260 417,583,793 13,692,456 11,040,754 4,982,410 4,146,997 451,446,410 50,762 (2.650.118) 448.847.054 Total liabilities . . . .

# (3) Operating profit or loss from external customers for the years ended December 31, 2020, 2021 and 2022 are as follows (Unit: Korean Won in millions):

	For the years ended December 31			
<u>Details</u>	2020	2021	2022	
Domestic	1,869,516	3,288,341	3,835,809	
Foreign	210,878	371,408	594,715	
Total	2,080,394	3,659,749	4,430,524	

(4) Major non-current assets as of December 31, 2021 and 2022 are as follows (Unit: Korean Won in millions):

Details(*)	December 31, 2021(*)	December 31, 2022(*)
Domestic	5,201,838	5,152,033
Foreign	482,930	533,354
Total	5,684,768	5,685,387

<sup>(\*)</sup> Major non-current assets included joint ventures and related business investments, investment properties, premises equipment, and intangible assets.

<sup>(\*1)</sup> Other segments include gains and losses from Woori Financial Group Inc., Woori Asset Trust Co., Ltd., Woori Savings Bank, Woori Asset Management Corp., Woori Financial F&I Co., Ltd., Woori Credit Information Co., Ltd., Woori Fund Service Co., Ltd., Woori Private Equity Asset Management Co., Ltd., Woori Global Asset Management Co., Ltd., Woori FIS Co., Ltd. and Woori Finance Research Institute.

<sup>(\*2)</sup> Other segments includes the funds subject to Group's consolidated not included in the reporting segment.

<sup>(\*3)</sup> Internal reconciliation includes the adjustment of deposit insurance premiums of KRW 423,834 million and fund contribution fees of KRW 402,057 million from net interest income expenses to non-interest income expenses in order to present the profit and loss adjustment between reporting divisions in accordance with management accounting standards as profit and loss in accordance with accounting standards

<sup>(\*4)</sup> Consolidation adjustments include the elimination of KRW 300,297 million of internal transactions between Woori FIS Co., Ltd., the group's IT service agency, and affiliates, and the removal of KRW 1,272,393 million of dividends received by the holding company from its subsidiaries.

## (5) Information about major customers

The Group does not have any single customer that generates 10% or more of the Group's total revenue for the years ended December 31, 2021 and 2022.

## 6. STATEMENTS OF CASH FLOWS

(1) Details of cash and cash equivalents are as follows (Unit: Korean Won in millions):

	December 31, 2022
1,742,449	1,771,316
503,205	628,590
18,208,784	31,729,228
158,635	90,014
20,613,073	34,219,148

(2) Details of restricted cash and cash equivalents are as follows (Unit: Korean Won in millions)

	Counterparty	December 31, 2021	Reason of restriction
Due from banks in local currency:			
Due from BOK on demand	BOK	9,619,055	Reserve deposits under the BOK Act
Due from banks in foreign currencies:			
Due from banks on demand	BOK and others	3,428,200	Reserve deposits under the BOK Act and others
	Total	13,047,255	
	Counterparty	December 31, 2022	Reason of restriction
Due from banks in local currency:			
Due from BOK on demand	BOK	16,527,445	Reserve deposits under the BOK Act
Due from banks in foreign currencies:			
Due from banks on demand	BOK and others	6,437,717	Reserve deposits under the BOK Act and others

(3) Significant transactions of investing activities and financing activities not involving cash inflows and outflows are as follows (Unit: Korean Won in millions):

	For the years ended December 31		
	2020	2021	2022
Changes in other comprehensive income related to valuation of financial assets at FVTOCI	59,360	(150,327)	(493,871)
Changes in other comprehensive income related to valuation of assets of associate	(2,298)	1,526	612
cash flow hedge	4,420	7,107	(9,835)
Changes in financial assets measure at FVTOCI due to debt-for-equity swap	3,575	79	14,594
Changes in the investment assets of associates due to the transfer of assets held-for-sale	(50,411) (2,385)	(52) —	_
held-for-sale		(12,852)	(13,109)
Transfer of investment properties and premises and equipment	30,431	6,095	7,153
Changes in account payables related to premises and equipment	(11 (20)	(11.640)	281
Changes in account payables related to intangible assets	(11,639)	(11,640)	(11,530)
Changes in right-of-use assets and lease liabilities	222,587	150,644	194,236
Comprehensive stock exchange	_	64,301	_
Changes in other comprehensive income related to foreign operation translation	(153,472)	246,808	32,536

(4) Adjustments of liabilities from financing activities in current and prior year are as follows (Unit: Korean Won in millions):

	For the year ended December 31, 2021						
			Not involving cash inflows and outflows				
	Beginning balance	Cash flow	Foreign Exchange	Variation of gains on valuation of hedged items	Others(*)	Ending balance	
Borrowings	20,745,466	3,199,712	804,649		5,632	24,755,459	
Debentures	37,479,358	6,893,661	392,077	(104,306)	(6,926)	44,653,864	
Lease liabilities	407,431	(177,593)	10,950		102,425	343,213	
Other liabilities	26,354	14,173			(13,620)	26,907	
Total	58,658,609	9,929,953	1,207,676	(104,306)	87,511	69,779,443	

<sup>(\*)</sup> The change in lease liabilities due to the new contract includes 189,660 million Won.

			Not involving	d outflows		
	Beginning balance	Cash flow	Foreign Exchange	Variation of gain(loss) on valuation of hedged items	Others(*)	Ending balance
Borrowings	24,755,459	2,881,675	760,918	_	31,551	28,429,603
Debentures	44,653,864	(484,874)	297,861	(257,910)	(10,455)	44,198,486
Lease liabilities	343,213	(187,531)	4,645	_	158,834	319,161
Other liabilities	26,907	513			(36)	27,384
Total	<u>69,779,443</u>	2,209,783	1,063,424	(257,910)	179,894	72,974,634

<sup>(\*)</sup> The change in lease liabilities due to the new contract includes 235,215 million Won.

## 7. FINANCIAL ASSETS AT FVTPL

(1) Details of financial assets at FVTPL as of December 31, 2021 and 2022 are as follows (Unit: Korean Won in millions):

	December 31, 2021	December 31, 2022
Financial assets at fair value through profit or loss measured at fair value	13,497,234	19,860,573

(2) Financial assets at fair value through profit or loss measured at fair value as of December 31, 2021 and 2022 are as follows (Unit: Korean Won in millions):

	December 31, 2021	December 31, 2022
Deposits:		
Gold banking asset	65,072	34,995
Securities:		
Debt securities		
Korean treasury and government agencies	995,713	2,754,442
Financial institutions	925,474	620,311
Corporates	751,636	721,573
Others	70,416	174,206
Equity securities	329,864	383,883
Capital contributions	1,287,723	1,976,474
Beneficiary certificates	3,504,547	3,902,762
Others	94,673	143,334
Sub-total	7,960,046	10,676,985
Loans	667,467	899,228
Derivatives assets	4,803,131	8,206,181
Other financial assets	1,518	43,184
Total	13,497,234	19,860,573

The Group does not have financial assets at fair value through profit or loss designated as upon initial recognition as of December 31, 2021 and 2022.

## 8. FINANCIAL ASSETS AT FVTOCI

(1) Details of financial assets at FVTOCI as of December 31, 2021 and 2022 are as follows (Unit: Korean Won in millions):

	December 31, 2021	December 31, 2022
Debt securities:		
Korean treasury and government agencies	4,728,085	5,487,983
Financial institutions	22,909,615	16,870,619
Corporates	5,091,035	4,044,446
Bond denominated in foreign currencies	5,299,707	5,644,684
Securities loaned	98,535	98,026
Sub-total	38,126,977	32,145,758
Equity securities	992,812	939,322
Total	39,119,789	33,085,080

(2) Details of equity securities designated as financial assets at FVTOCI as of December 31, 2021 and 2022 are as follows (Unit: Korean Won in millions):

Purpose of acquisition	December 31, 2021	December 31, 2022	Purpose of acquisition
Investment for strategic business			
partnership purpose	796,835	776,199	
Debt-equity swap	195,971	157,216	
Others	6	5,907	Insurance for mutual aid association etc.
Total	992,812	939,322	

(3) Changes in the loss allowance and gross carrying amount of financial assets at FVTOCI are as follows (Unit: Korean Won in millions):

## 1) Allowance for credit losses

	For the year ended December 31, 2020				
	Stage 1	Stage 2	Stage 3	Total	
Beginning balance	(8,569)	_	_	(8,569)	
Transfer to 12-month expected credit losses	_	_	_		
Transfer to lifetime expected credit losses	_	_	_	_	
Transfer to credit-impaired financial assets	_	_	_	_	
Net provision of loss allowance	(1,529)	_	_	(1,529)	
Disposal	764	_	_	764	
Others <sup>(*)</sup>	(297)			(297)	
Ending balance	(9,631)			(9,631)	

<sup>(\*)</sup> Others consist of foreign currencies translation, etc.

	For the year ended December 31, 2021					
	Stage 1	Stage 2	Stage 3	Total		
Beginning balance	(9,631)	_	_	(9,631)		
Transfer to 12-month expected credit losses	_	_	_	_		
Transfer to lifetime expected credit losses	_	_	_	_		
Transfer to credit-impaired financial assets	_	_	_	_		
Net provision of loss allowance	(4,909)	_	_	(4,909)		
Disposal	2,378	_	_	2,378		
Others <sup>(*)</sup>	16			16		
Ending balance	(12,146)			(12,146)		

(\*) Others consist of foreign currencies translation, etc.

	For the year ended December 31, 2022					
	Stage 1	Stage 2	Stage 3	Total		
Beginning balance	(12,146)	_	_	(12,146)		
Transfer to 12-month expected credit losses	_	_	_	_		
Transfer to lifetime expected credit losses	_	_	_	_		
Transfer to credit-impaired financial assets	_	_	_	_		
Reversal of loss allowance	827	_	_	827		
Disposal	714	_	_	714		
Others <sup>(*)</sup>	(1,200)			(1,200)		
Ending balance	(11,805)			(11,805)		

<sup>(\*)</sup> Others consist of foreign currencies translation, etc.

2) Gross carrying amount

	For the year ended December 31, 2020				
	Stage 1	Stage 2	Stage 3	Total	
Beginning balance	26,795,161		_	26,795,161	
Transfer to 12-month expected credit losses	_	_	_	_	
Transfer to lifetime expected credit losses	_	_	_		
Transfer to credit-impaired financial assets	_	_	_	_	
Acquisition	22,970,010	_	_	22,970,010	
Disposal / Recovery	(20,530,076)	_	_	(20,530,076)	
Gain (loss) on valuation	17,957	_	_	17,957	
Amortization based on effective interest method	(12,545)	_	_	(12,545)	
Others(*)	(292,366)			(292,366)	
Ending balance	28,948,141			28,948,141	

<sup>(\*)</sup> Others consist of foreign currencies translation, etc.

	For the year ended December 31, 2021				
	Stage 1	Stage 2	Stage 3	Total	
Beginning balance	28,948,141		_	28,948,141	
Transfer to 12-month expected credit losses	_	_	_	_	
Transfer to lifetime expected credit losses	_	_	_		
Transfer to credit-impaired financial assets	_	_	_	_	
Acquisition	30,522,426	_	_	30,522,426	
Disposal / Recovery	(21,533,360)	_	_	(21,533,360)	
Gain (loss) on valuation	(213,517)	_	_	(213,517)	
Amortization based on effective interest method	31,641	_	_	31,641	
Others <sup>(*)</sup>	371,646			371,646	
Ending balance	38,126,977			38,126,977	

<sup>(\*)</sup> Others consist of foreign currencies translation, etc.

	For the year ended December 31, 2022					
	Stage 1	Stage 2	Stage 3	Total		
Beginning balance	38,126,977	_	_	38,126,977		
Transfer to 12-month expected credit losses	_	_	_	_		
Transfer to lifetime expected credit losses	_	_	_	_		
Transfer to credit-impaired financial assets	_	_	_	_		
Acquisition	16,108,426	_	_	16,108,426		
Disposal / Recovery	(21,670,160)	_	_	(21,670,160)		
Gain (loss) on valuation	(669,936)	_	_	(669,936)		
Amortization based on effective interest method	41,813	_	_	41,813		
Others(*)	208,638			208,638		
Ending balance	32,145,758			32,145,758		

<sup>(\*)</sup> Others consist of foreign currencies translation, etc.

#### 9. SECURITIES AT AMORTIZED COST

(1) Details of securities at amortized cost as of December 31, 2021 and 2022 are as follows (Unit: Korean Won in millions):

		December 31, 2022
Korean treasury and government agencies	8,882,500	10,083,951
Financial institutions	1,835,947	10,283,631
Corporates	5,818,646	6,237,547
Bond denominated in foreign currencies	554,416	1,671,772
Allowance for credit losses	(5,235)	(8,385)
Total	17,086,274	28,268,516

<sup>(4)</sup> During the years ended December 31, 2021 and 2022, the Group sold its equity securities., designated as financial assets at FVTOCI in accordance with decision of disposal by the creditors, and the fair values at disposal dates were 138,511 million Won and 3,567 million Won, respectively and cumulative gains and losses at disposal dates were 3,062 million Won in gain and 14,444 million Won in loss, respectively.

(2) Changes in the loss allowance and gross carrying amount of securities at amortized cost are as follows (Unit: Korean Won in millions):

#### 1) Loss allowance

	For the year ended December 31, 2020			
	Stage 1	Stage 2	Stage 3	Total
Beginning balance	(5,511)	_	_	(5,511)
Transfer to 12-month expected credit losses	_	_	_	_
Transfer to lifetime expected credit losses	_	_	_	_
Transfer to credit-impaired financial assets	_	_	_	_
Net reversal of loss allowance	934	_	_	934
Others <sup>(*)</sup>	11			11
Ending balance	(4,566)			(4,566)

(\*) Changes due to foreign currencies translation, etc.

	For the year ended December 31, 2021			
	Stage 1	Stage 2	Stage 3	Total
Beginning balance	(4,566)	_	_	(4,566)
Transfer to 12-month expected credit losses	_	_	_	
Transfer to lifetime expected credit losses	_	_	_	_
Transfer to credit-impaired financial assets	_	_	_	_
Net reversal of loss allowance	(664)	_	_	(664)
Others(*)	(5)			(5)
Ending balance	(5,235)			(5,235)

(\*) Changes due to foreign currencies translation, etc.

	For the year ended December 31, 2022			
	Stage 1	Stage 2	Stage 3	Total
Beginning balance	(5,235)	_	_	(5,235)
Transfer to 12-month expected credit losses		_	_	_
Transfer to lifetime expected credit losses		_	_	_
Transfer to credit-impaired financial assets	_	_	_	_
Net provision of loss allowance	(3,151)	_	_	(3,151)
Others <sup>(*)</sup>	1			1
Ending balance	(8,385)			(8,385)

<sup>(\*)</sup> Changes due to foreign currencies translation, etc.

# 2) Gross carrying amount

	For the year ended December 31, 2020			
	Stage 1	Stage 2	Stage 3	Total
Beginning balance	20,326,050	_	_	20,326,050
Transfer to 12-month expected credit losses	_	_	_	_
Transfer to lifetime expected credit losses	_	_	_	_
Transfer to credit-impaired financial assets	_	_	_	_
Acquisition	2,380,448	_	_	2,380,448
Disposal / Recovery	(5,659,365)	_	_	(5,659,365)
Amortization based on effective interest				
method	(396)	_	_	(396)
Others <sup>(*)</sup>	(21,332)			(21,332)
Ending balance	17,025,405			17,025,405

(\*) Changes due to foreign currencies translation, etc.

	For the year ended December 31, 2021			
	Stage 1	Stage 2	Stage 3	Total
Beginning balance	17,025,405	_	_	17,025,405
Transfer to 12-month expected credit losses	_	_	_	_
Transfer to lifetime expected credit losses	_	_	_	_
Transfer to credit-impaired financial assets	_	_	_	_
Acquisition	6,435,692	_	_	6,435,692
Disposal / Recovery	(6,425,408)	_	_	(6,425,408)
Amortization based on effective interest method	14,810	_	_	14,810
Others(*)	41,010			41,010
Ending balance	17,091,509			17,091,509

(\*) Changes due to foreign currencies translation, etc.

	For the year ended December 31, 2022			1, 2022
	Stage 1	Stage 2	Stage 3	Total
Beginning balance	17,091,509	_	_	17,091,509
Transfer to 12-month expected credit losses	_	_	_	_
Transfer to lifetime expected credit losses	_	_	_	_
Transfer to credit-impaired financial assets	_	_	_	_
Acquisition	16,873,194	_	_	16,873,194
Disposal / Recovery	(5,871,234)	_	_	(5,871,234)
Amortization based on effective interest method	86,212	_	_	86,212
Others <sup>(*)</sup>	97,220			97,220
Ending balance	28,276,901			28,276,901

<sup>(\*)</sup> Changes due to foreign currencies translation, etc.

## 10. LOANS AND OTHER FINANCIAL ASSETS AT AMORTIZED COST

(1) Details of loans and other financial assets at amortized cost as of December 31, 2021 and 2022 are as follows (Unit: Korean Won in millions):

	December 31, 2021	December 31, 2022
Due from banks	2,866,884	2,994,672
Loans	336,799,510	343,918,560
Other financial assets	9,219,223	8,847,497
Total	348,885,617	355,760,729
(2) Details of due from banks are as follows (Unit: Korean Won in millions):	December 31,	December 31,
	2021	2022
Due from banks in local currency:		
Due from The Bank of Korea ("BOK")	600,000	160,000
Due from depository banks	159,264	170,006
Due from non-depository institutions	14,146	183
Due from the Korea Exchange	54	2,440
Others	191,501	421,318
Loss allowance	(2,452)	(116)
Sub-total	962,513	753,831
Due from banks in foreign currencies:		
Due from banks on demand	194,781	199,671
Due from banks on time	205,351	466,963
Others	1,507,821	1,586,408
Loss allowance	(3,582)	(12,201)
Sub-total	1,904,371	2,240,841
Total	2,866,884	2,994,672

## (3) Details of restricted due from banks are as follows (Unit: Korean Won in millions):

	Counterparty	December 31, 2021	Reason of restriction
Due from banks in local currency:			
Due from BOK	The BOK	600,000	Reserve deposits
Due from KSFC	KB Securities Co. Ltd	54	under the BOK Act Futures trading margin
Others	Korea Federation of Savings		Guarantees, mortgage of
	Banks and others		domestic exchange transactions and others
	Sub-total	675,951	
Due from banks in foreign			
currencies:			
Due from banks on demand	The BOK and others	128,492	Reserve deposits under the BOK Act and others
Foreign currency deposits on			
time	National Bank Cambodia		Reserve deposits and others
Others	Korea Investment & Securities and others		Overseas futures and options trade deposits and others
	Sub-total		trade deposits and others
	Total	2,307,154	
	Counterparty	December 31,	Reason of restriction
Due from banks in local currency:	Counterparty	December 31, 2022	Reason of restriction
Due from banks in local currency:  Due from BOK		2022	Reason of restriction
Due from banks in local currency:  Due from BOK  Due from KSFC	BOK	2022 160,000	Reason of restriction  Reserve deposits under BOK Act
Due from BOK	BOK	2022 160,000 2,419	Reason of restriction
Due from BOK	BOK	160,000 2,419 223,705	Reason of restriction  Reserve deposits under BOK Act Customer deposits return reserve  Korean Won CCP margin and
Due from BOK Due from KSFC	BOK	160,000 2,419 223,705	Reason of restriction  Reserve deposits under BOK Act Customer deposits return reserve
Due from BOK Due from KSFC	BOK	160,000 2,419 223,705	Reason of restriction  Reserve deposits under BOK Act Customer deposits return reserve  Korean Won CCP margin and
Due from BOK Due from KSFC	BOK	160,000 2,419 223,705	Reason of restriction  Reserve deposits under BOK Act Customer deposits return reserve  Korean Won CCP margin and
Due from BOK Due from KSFC Others  Due from banks in foreign	BOK	2022 160,000 2,419 223,705 386,124	Reason of restriction  Reserve deposits under BOK Act Customer deposits return reserve  Korean Won CCP margin and
Due from BOK Due from KSFC  Others  Due from banks in foreign currencies:	BOK	2022 160,000 2,419 223,705 386,124 193,507 253	Reserve deposits under BOK Act Customer deposits return reserve Korean Won CCP margin and others  Reserve deposits under BOK Act and others Reserve deposits and others
Due from BOK Due from KSFC  Others  Due from banks in foreign currencies: Due from banks on demand	BOK	2022 160,000 2,419 223,705 386,124 193,507 253 1,581,298	Reserve deposits under BOK Act Customer deposits return reserve Korean Won CCP margin and others  Reserve deposits under BOK Act and others Reserve deposits and others Overseas futures and options
Due from BOK Due from KSFC  Others  Due from banks in foreign currencies: Due from banks on demand  Due from banks on time	BOK	2022 160,000 2,419 223,705 386,124 193,507 253 1,581,298	Reserve deposits under BOK Act Customer deposits return reserve Korean Won CCP margin and others  Reserve deposits under BOK Act and others Reserve deposits and others
Due from BOK Due from KSFC  Others  Due from banks in foreign currencies: Due from banks on demand  Due from banks on time	BOK	2022 160,000 2,419 223,705 386,124 193,507 253 1,581,298 1,775,058	Reserve deposits under BOK Act Customer deposits return reserve Korean Won CCP margin and others  Reserve deposits under BOK Act and others Reserve deposits and others Overseas futures and options

(4) Changes in the allowance for credit losses and gross carrying amount of due from banks are as follows (Unit: Korean Won in millions):

## 1) Allowance for credit losses

	For the year ended December 31, 2020			
	Stage 1	Stage 2	Stage 3	Total
Beginning balance	(4,860)	_	_	(4,860)
Transfer to 12-month expected credit losses	_	_	_	_
Transfer to lifetime expected credit losses	_		_	_
Transfer to credit-impaired financial assets	_	_	_	_
Reversal of allowance for credit losses	315	_	_	315
Others <sup>(*)</sup>	179			179
Ending balance	(4,366)			(4,366)

## (\*) Changes due to foreign currencies translation, etc

	For the year ended December 31, 2021			
	Stage 1	Stage 2	Stage 3	Total
Beginning balance	(4,366)	_	_	(4,366)
Transfer to 12-month expected credit losses	_	_	_	_
Transfer to lifetime expected credit losses				
Transfer to credit-impaired financial assets	_	_	_	_
Provision of allowance for credit losses	(1,477)	_	_	(1,477)
Others <sup>(*)</sup>	(191)			(191)
Ending balance	(6,034)			(6,034)

## (\*) Changes due to foreign currencies translation, etc

	For the year ended December 31, 2022			
	Stage 1	Stage 2	Stage 3	Total
Beginning balance	(6,034)	_	_	(6,034)
Transfer to 12-month expected credit losses	_	_	_	_
Transfer to lifetime expected credit losses	_	_		_
Transfer to credit-impaired financial assets	_	_	_	_
Provision of allowance for credit losses	(7,702)	_	_	(7,702)
Others <sup>(*)</sup>	1,419			1,419
Ending balance	(12,317)			(12,317)

<sup>(\*)</sup> Changes due to foreign currencies translation, etc

# 2) Gross carrying amount

	For the year ended December 31, 2020				
	Stage 1	Stage 2	Stage 3	Total	
Beginning balance	3,135,940	_	_	3,135,940	
Transfer to 12-month expected credit losses				_	
Transfer to lifetime expected credit losses		_		_	
Transfer to credit-impaired financial assets	_	_		_	
Net decrease	(750,163)	_		(750,163)	
Business combination	129,825	_		129,825	
Others <sup>(*)</sup>	(329)			(329)	
Ending balance	2,515,273			2,515,273	

# (\*) Changes due to foreign currencies translation, etc

	For the year ended December 31, 2021				
	Stage 1	Stage 2	Stage 3	Total	
Beginning balance	2,515,273	_	_	2,515,273	
Transfer to 12-month expected credit losses	_			_	
Transfer to lifetime expected credit losses	_		_	_	
Transfer to credit-impaired financial assets	_	_	_	_	
Net increase	282,987	_	_	282,987	
Others(*)	74,658			74,658	
Ending balance	2,872,918 			2,872,918 ======	

## (\*) Changes due to foreign currencies translation, etc

	For the year ended December 31, 2022					
	Stage 1	Stage 2	Stage 3	Total		
Beginning balance	2,872,918	_	_	2,872,918		
Transfer to 12-month expected credit losses	_		_	_		
Transfer to lifetime expected credit losses				_		
Transfer to credit-impaired financial assets				_		
Net increase	166,693	_	_	166,693		
Others <sup>(*)</sup>	(32,622)			(32,622)		
Ending balance	3,006,989			3,006,989		

<sup>(\*)</sup> Changes due to foreign currencies translation, etc

## (5) Details of loans are as follows (Unit: Korean Won in millions):

	December 31, 2021	December 31, 2022
Loans in local currency	273,283,542	282,686,620
Loans in foreign currencies	24,508,250	26,988,360
Domestic banker's usance	3,403,021	2,877,079
Credit card accounts	9,757,115	10,370,362
Bills bought in foreign currencies	5,310,080	3,650,792
Bills bought in local currency	265,275	533,879
Factoring receivables	17,406	25,469
Advances for customers on guarantees	26,766	25,698
Private placement bonds	519,150	485,519
Securitized loans	2,874,480	2,990,937
Call loans	3,481,219	3,626,226
Bonds purchased under resale agreements	10,332,858	6,849,038
Financial lease receivables	1,173,751	1,467,858
Installment financial bond	2,882,396	2,832,972
Others	159	140
Loan origination costs and fees	858,051	852,002
Discounted present value	(7,299)	(10,238)
Allowance for credit losses	(1,886,710)	(2,334,153)
Total	336,799,510	343,918,560

# (6) Changes in the loss allowance of loans are as follows (Unit: Korean Won in millions):

	For the year ended December 31, 2020								
	C	Consumers		(	Corporates				
	Stage 1 Stage 2 Sta		Stage 3	Stage 1	Stage 2	Stage 3			
Beginning balance	(85,148)	(77,962)	(125,588)	(324,258)	(297,718)	(390,045)			
Transfer to 12-month expected credit losses	(20,839)	20,050	789	(29,117)	25,067	4,050			
Transfer to lifetime expected credit losses Transfer to gradit imprired	9,137	(10,800)	1,663	19,259	(48,184)	28,925			
Transfer to credit-impaired financial assets	3,549	4,913	(8,462)	3,607	10,349	(13,956)			
Net reversal (provision) of allowance for credit									
losses	5,142	(10,042)	(125,923)	2,831	(200,024)	(271,265)			
Recovery			(71,277)	_		(66,179)			
Charge-off	_	_	181,713	_	_	243,634			
Disposal	_		5,640	_	13	47,106			
Interest income from									
impaired loans		_	10,790	_	_	14,945			
Changes due to business									
combinations	(31,327)	(15,129)	(72,040)	(13,703)	(18,164)	(24,364)			
Others	(2,041)	4,507	(2,998)	13,921	6,754	38,405			
Ending balance	(121,527)	(84,463)	(205,693)	(327,460)	(521,907)	(388,744)			

For the year ended December 31
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	Credit	card accounts		Total			
	Stage 1	Stage 2	Stage 3	Stage 1	Stage 2	Stage 3	
Beginning balance	(74,726)	(71,533)	(128,042)	(484,132)	(447,213)	(643,675)	
Transfer to 12-month							
expected credit losses	(14,978)	14,755	223	(64,934)	59,872	5,062	
Transfer to lifetime							
expected credit losses	9,341	(9,742)	401	37,737	(68,726)	30,989	
Transfer to credit-impaired							
financial assets	627	1,137	(1,764)	7,783	16,399	(24,182)	
Net reversal (provision) of							
loss allowance	17,022	(25,098)	(179,872)	24,995	(235,164)	(577,060)	
Recovery	_		(66,026)	_	_	(203,482)	
Charge-off	_		245,890	_	_	671,237	
Disposal	_		23,653	_	13	76,399	
Interest income from							
impaired loans	_		_	_	_	25,735	
Changes due to business							
combinations	_		_	(45,030)	(33,293)	(96,404)	
Others	2			11,882	11,261	35,407	
Ending balance	(62,712)	(90,481)	(105,537)	(511,699)	(696,851)	(699,974)	

	C	onsumers		Corporates			
	Stage 1	Stage 2	Stage 3	Stage 1	Stage 2	Stage 3	
Beginning balance	(121,527)	(84,463)	(205,693)	(327,460)	(521,907)	(388,744)	
Transfer to 12-month							
expected credit losses	(23,328)	19,736	3,592	(80,803)	49,902	30,901	
Transfer to lifetime							
expected credit losses	9,201	(11,466)	2,265	14,106	(35,706)	21,600	
Transfer to credit-impaired							
financial assets	2,752	9,918	(12,670)	1,562	18,741	(20,303)	
Net reversal (provision) of							
loss allowance	(4,456)	(32,764)	(130,424)	49,562	(91,981)	(168,323)	
Recovery	_	_	(75,058)	_	_	(55,108)	
Charge-off	_	_	174,012	_	_	233,507	
Disposal	_	_	14,890	_	_	64,078	
Interest income from							
impaired loans	_	_	13,743	_	_	12,672	
Others	838	1,435	8,726	(19,733)	4,211	18,487	
Ending balance	(136,520)	(97,604)	(206,617)	(362,766)	(576,740)	(251,233)	

•	Credi	card accounts		Total			
	Stage 1	Stage 2	Stage 3	Stage 1	Stage 2	Stage 3	
Beginning balance	(62,712)	(90,481)	(105,537)	(511,699)	(696,851)	(699,974)	
Transfer to 12-month expected credit losses	(26,846)	26,581	265	(130,977)	96,219	34,758	
Transfer to lifetime expected credit losses Transfer to credit-impaired	7,497	(8,151)	654	30,804	(55,323)	24,519	
financial assets  Net reversal (provision) of	356	925	(1,281)	4,670	29,584	(34,254)	
loss allowance	12,894	(44,363)	(145,336)	58,000	(169,108)	(444,083)	
Recovery	, <u> </u>	_	(65,620)	´ —		(195,786)	
Charge-off	_	_	220,352	_	_	627,871	
Disposal	_	_	25,576	_		104,544	
Interest income from impaired loans	_	_	_	_		26,415	
Others	(3)	_		(18,898)	5,646	27,213	
Ending balance	(68,814)	(115,489)	(70,927)	(568,100)	(789,833)	(528,777)	

	Consumers			Corporates			
	Stage 1	Stage 2	Stage 3	Stage 1	Stage 2	Stage 3	Credit impairment model
Beginning balance	(136,520)	(97,604)	(206,617)	(362,766)	(576,740)	(251,233)	_
Transfer to 12-month	, , ,	, , ,	`	, , ,	, , ,	, , ,	
expected credit losses	(21,684)	21,210	474	(74,402)	68,546	5,856	
Transfer to lifetime	, , ,			, , ,			
expected credit losses	10,211	(11,568)	1,357	18,678	(21,502)	2,824	_
Transfer to credit-impaired							
financial assets	3,960	8,975	(12,935)	2,217	12,769	(14,986)	_
Net reversal(provision) of							
allowance for credit							
losses	(734)	(49,398)	(156,286)	(22,646)	(303,198)	(107,038)	(27)
Recovery		_	(70,077)		_	(55,743)	_
Charge-off	_	_	161,850	_	_	140,744	_
Disposal	_	62	21,862	280	128	37,722	_
Interest income from							
impaired loans	_	_	11,805	_	_	9,576	_
Others	(4,350)	(495)	(948)	(479)	(84)	(97)	_
Changes due to business							
combinations	1,241	729	7,573	(14,503)	1,847	(9,090)	
Ending balance	(147,876)	(128,089)	(241,942)	(453,621)	(818,234)	(241,465)	(27)

_	Credit card accounts						
	Stage 1	Stage 2	Stage 3	Stage 1	Stage 2	Stage 3	Credit impairment model
Beginning balance	(68,814)	(115,489)	(70,927)	(568,100)	(789,833)	(528,777)	_
Transfer to 12-month							
expected credit losses	(31,360)	31,284	76	(127,446)	121,040	6,406	_
Transfer to lifetime							
expected credit losses	7,576	(7,694)	118	36,465	(40,764)	4,299	
Transfer to credit-impaired							
financial assets	642	2,190	(2,832)	6,819	23,934	(30,753)	_
Net reversal(provision) of allowance for credit							
losses	20,820	(38,105)	(204,569)	(2,560)	(390,701)	(467,893)	(27)
Recovery		_	(53,988)		_	(179,808)	_
Charge-off		_	220,280			522,874	
Disposal	_	_	7,896	280	190	67,480	_
Interest income from							
impaired loans	_	_	_	_	_	21,381	_
Others		_	_	(4,829)	(579)	(1,045)	_
Changes due to business							
combinations	(3)			(13,265)	2,576	(1,517)	
Ending balance	(71,139)	(127,814)	(103,946)	(672,636)	(1,074,137)	(587,353)	(27)

# (7) Changes in the gross carrying amount of loans are as follows (Unit: Korean Won in millions):

	For the year ended December 31, 2020						
		Consumers		Corporates			
	Stage 1	Stage 2	Stage 3	Stage 1	Stage 2	Stage 3	
Beginning balance	111,253,283	12,448,807	417,674	134,443,979	4,910,598	740,257	
Transfer to 12-month							
expected credit losses	4,564,471	(4,552,400)	(12,071)	1,160,399	(1,146,756)	(13,643)	
Transfer to lifetime							
expected credit losses	(5,365,577)	5,388,064	(22,487)	(3,983,614)	4,023,106	(39,492)	
Transfer to credit-impaired							
financial assets	(96,197)	(103,016)	199,213	(357,386)	(120,491)	477,877	
Charge-off	_	_	(181,713)	_	_	(243,634)	
Disposal	_	_	(55,349)	_	(398)	(163,644)	
Net increase (decrease)	13,326,560	(1,289,910)	54,503	14,804,391	(696,164)	(64,490)	
Changes due to business							
combinations	2,307,498	125,166	137,336	3,507,163	358,846	24,678	
Ending balance	125,990,038	12,016,711	537,106	149,574,932	7,328,741	717,909	

For the year	ended December 31, 2020	

	For the year ended December 31, 2020					
		it card accounts			Total	
	Stage 1	Stage 2	Stage 3	Stage 1	Stage 2	Stage 3
Beginning balance Transfer to 12-month	7,278,467	885,832	228,367	252,975,729	18,245,237	1,386,298
expected credit losses Transfer to lifetime	257,399	(257,144)	(255)	5,982,269	(5,956,300)	(25,969)
expected credit losses Transfer to credit-impaired	(454,230)	454,709	(479)	(9,803,421)	9,865,879	(62,458)
financial assets	(26,947)	(10,796)	37,743	(480,530)	(234,303)	714,833
Charge-off	_	_	(245,890)	_		(671,237)
Disposal	_	_	(43,781)	_	(398)	(262,774)
Net increase (decrease) Changes due to business	224,286	5,619	204,369	28,355,237	(1,980,455)	194,382
combinations				5,814,661	484,012	162,014
Ending balance	7,278,975	1,078,220	180,074	282,843,945	20,423,672	1,435,089
		For t	he year ended	December 31, 202	21	
		Consumers			Corporates	
	Stage 1	Stage 2	Stage 3	Stage 1	Stage 2	Stage 3
Beginning balance Transfer to 12-month	125,990,038	12,016,711	537,106	149,574,932	7,328,741	717,909
expected credit losses Transfer to lifetime	4,377,247	(4,357,347)	(19,900)	1,610,541	(1,575,157)	(35,384)
expected credit losses Transfer to credit-impaired	(6,104,417)	6,127,477	(23,060)	(3,627,800)	3,670,808	(43,008)
financial assets	(108,717)	(79,746)	188,463	(244,236)	(132,986)	377,222
Charge-off	_	_	(174,012)	_	_	(233,507)
Disposal			(48,795)	_		(187,571)
Net increase (decrease)	10,985,534	(206,312)	40,167	23,481,818	(833,127)	(53,929)
Ending balance	135,139,685	13,500,783	499,969	170,795,255	8,458,279	541,732
				December 31, 202		
	-	it card accounts			Total	
	Stage 1	Stage 2	Stage 3	Stage 1	Stage 2	Stage 3
Beginning balance Transfer to 12-month	7,278,975	1,078,220	180,074	282,843,945	20,423,672	1,435,089
expected credit losses Transfer to lifetime	359,101	(358,776)	(325)	6,346,889	(6,291,280)	(55,609)
expected credit losses Transfer to credit-impaired	(513,635)	514,369	(734)	(10,245,852)	10,312,654	(66,802)
financial assets	(17,416)	(9,253)	26,669	(370,369)	(221,985)	592,354
Charge-off	_	_	(220,352)	_	_	(627,871)
Disposal	_		(56,520)	_		(292,886)
Net increase (decrease)	1,132,278	170,579	187,263	35,599,630	(868,860)	173,501
Ending balance	8,239,303	1,395,139	116,075	314,174,243	23,354,201	<u>1,157,776</u>

For the	vear	ended	December	31,	2022

	Consumers				Corpora	ites	
	Stage 1	Stage 2	Stage 3	Stage 1	Stage 2	Stage 3	Credit impairment model
Beginning balance	135,139,685	13,500,783	499,969	170,795,255	8,458,279	541,732	_
Transfer to 12-month expected credit losses Transfer to lifetime	4,651,157	(4,637,460)	(13,697)	1,784,684	(1,768,655)	(16,029)	_
expected credit losses	(6,284,951)	6,303,526	(18,575)	(3,773,713)	3,792,473	(18,760)	_
Transfer to credit-impaired financial assets	(157,808)	(102,097)	259,905	(242,421)	(123,225)	365,646	_
Charge-off			(161,850)	` ' '	_	(140,744)	_
Disposal	_	(259)	(57,052)	(48,472)	(391)	(134,732)	_
Net increase (decrease)	(2,077,449)	(1,046,885)	47,727	11,005,551	(873,200)	28,198	313,717
Changes due to business							
combinations	57,743	2,974	7,630	31,551	1,016	687	
Ending balance	131,328,377	14,020,582	564,057	179,552,435	9,486,297	625,998	313,717

	Credit card accounts				Tota	l	
	Stage 1	Stage 2	Stage 3	Stage 1	Stage 2	Stage 3	Credit impairment model
Beginning balance	8,239,303	1,395,139	116,075	314,174,243	23,354,201	1,157,776	_
Transfer to 12-month expected credit losses	542,021	(541,913)	(108)	6,977,862	(6,948,028)	(29,834)	_
Transfer to lifetime expected credit losses	(403,398)	403,598	(200)	(10,462,062)	10,499,597	(37,535)	_
Transfer to credit-impaired							
financial assets	(31,780)	(21,244)	53,024	(432,009)	(246,566)	678,575	_
Charge-off	_	_	(220,280)	_	_	(522,874)	_
Disposal	_	_	(17,082)	(48,472)	(650)	(208,866)	
Net increase (decrease)	769,314	(169,200)	247,981	9,697,416	(2,089,285)	323,906	313,717
Changes due to business				00.204	2 000	0.215	
combinations				89,294	3,990	8,317	
Ending balance	9,115,460	1,066,380	179,410	319,996,272	24,573,259	1,369,465	313,717

## (8) Details of other financial assets are as follows (Unit: Korean Won in millions):

	December 31, 2021	December 31, 2022
Cash Management Account asset (CMA asset)	140,000	157,000
Receivables	6,852,139	5,438,469
Accrued income	1,049,857	1,667,397
Telex and telephone subscription rights and refundable deposits	870,707	801,536
Domestic exchange settlement debit	82,555	577,919
Other assets <sup>(*)</sup>	290,746	344,356
Allowance for credit losses	(66,781)	(139,180)
Total	9,219,223	8,847,497

<sup>(\*)</sup> The Group became aware of employee embezzlement incidents that occurred before the end of April 2022, and the Financial Supervisory Service conducted on-site inspections from April 28 to May 30, 2022. An

accusation of embezzlement and provisional seizure of found property were made. The related amount included in other assets amounted to 63,354 million Won, which was treated as a loss in its entirety because its recoverability was uncertain.

(9) Changes in the allowances for credit losses on other financial assets are as follows (Unit: Korean Won in millions):

	For the year ended December 31, 2020			2020
	Stage 1	Stage 2	Stage 3	Total
Beginning balance	(3,196)	(1,666)	(72,277)	(77,139)
Transfer to 12-month expected credit losses	(142)	129	13	
Transfer to lifetime expected credit losses	125	(155)	30	
Transfer to credit-impaired financial assets	23	64	(87)	_
Provision of allowance for credit losses	(667)	(1,589)	(3,080)	(5,336)
Charge-off	_	_	2,151	2,151
Disposal		_	1,557	1,557
Changes due to business combination	(624)	(2,235)	(1,968)	(4,827)
Others	815	2	(518)	299
Ending balance	(3,666)	(5,450)	(74,179)	(83,295)
	For the	voor onded D	ecember 31, 2	2021
	Stage 1	Stage 2	Stage 3	Total
Designing helenge	(3,666)	(5,450)	(74,179)	(83,295)
Beginning balance	(228)	(3,430)	(74,179)	(85,293)
Transfer to 12-month expected credit losses	(228) 147	(174)	27	_
Transfer to credit-impaired financial assets	167	288	(455)	
Reversal (provision) of loss allowance	511	(464)	4,664	4,711
Charge-off	<i>3</i> 11	(+0+)	9,965	9,965
Disposal		_	1,400	1,400
Others	(606)	3	1,041	438
Ending balance	(3,675)	(5,580)	(57,526)	(66,781)
		<u> </u>	ecember 31, 2	Total
	Stage 1	Stage 2	Stage 3	
Beginning balance	(3,675)	(5,580)	(57,526)	(66,781)
Transfer to 12-month expected credit losses	(261)	246	15	_
Transfer to lifetime expected credit losses	209	(225)	16	_
Transfer to credit-impaired financial assets	981	1,134	(2,115)	(12.795)
Reversal (provision) of loss allowance	(1,749)	(4,707)	(6,329)	(12,785)
Charge-off	_	_	2,223 751	2,223 751
Others	317	(1)	(62,904)	(62,588)
Ending balance	(4,178)	(9,133)	$\frac{(02,364)}{(125,869)}$	$\frac{(02,380)}{(139,180)}$

(10) Changes in the gross carrying amount of other financial assets are as follows (Unit: Korean Won in millions):

	For th	e year ended	December 31	, 2020
	Stage 1	Stage 2	Stage 3	Total
Beginning balance	8,059,844	92,647	117,874	8,270,365
Transfer to 12-month expected credit losses	8,760	(8,737)	(23)	_
Transfer to lifetime expected credit losses	(15,305)	15,334	(29)	_
Transfer to credit-impaired financial assets	(1,900)	(701)	2,601	_
Charge-off		_	(2,151)	(2,151)
Disposal	_	_	(1,847)	(1,847)
Net increase (decrease)	(856,008)	(26,539)	69,500	(813,047)
Changes due to business combination	72,035	4,414	2,262	78,711
Ending balance	7,267,426	76,418	188,187	7,532,031
	For th	e year ended l	December 31	, 2021
	Stage 1	Stage 2	Stage 3	Total
Beginning balance	7,267,426	76,418	188,187	7,532,031
Transfer to 12-month expected credit losses	8,909	(8,894)	(15)	_
Transfer to lifetime expected credit losses	(27,369)	27,399	(30)	_
Transfer to credit-impaired financial assets	(1,877)	(1,638)	3,515	_
Charge-off	_	_	(9,965)	(9,965)
Disposal		_	(1,716)	(1,716)
Net increase (decrease)	1,757,450	13,312	(5,108)	1,765,654
Ending balance	9,004,539	106,597	174,868	9,286,004
		e year ended l		
	Stage 1	Stage 2	Stage 3	<u>Total</u>
Beginning balance	9,004,539	106,597	174,868	9,286,004
Transfer to 12-month expected credit losses	9,765	(9,749)	(16)	_
Transfer to lifetime expected credit losses	(38,248)	38,265	(17)	_
Transfer to credit-impaired financial assets	(1,484)	(2,824)	4,308	_
Charge-off	_	_	24	24
Disposal	(5)	_	(917)	(922)
Net increase (decrease)	(88,214)	(110,835)	(99,748)	(298,797)
Changes due to business combinations	368			368
Ending balance	8,886,721	21,454	78,502	8,986,677

#### 11. FAIR VALUE OF FINANCIAL ASSETS AND LIABILITIES

#### (1) The fair value hierarchy

The fair value hierarchy for financial instruments is determined by the amount of observable market data. The specific financial instruments characteristics and market condition such as the existence of the transactions among market participants and transparency are reflected to the market observable inputs. The fair value hierarchy gives the highest priority to quoted prices (unadjusted) in active markets for identical assets or liabilities. The Group maximizes the use of observable inputs and minimizes the use of unobservable inputs when measuring fair value of its financial assets and financial liabilities. Fair value is measured based on the perspective of a market participant. As such, even when market assumptions are not readily available, the Group's own assumptions reflect those that market participants would use for measuring the assets or liabilities at the measurement date.

The fair value measurement is described in the one of the following three levels used to classify fair value measurements:

- Level 1—fair value measurements are those derived from quoted prices (unadjusted) in active markets for identical assets or liabilities. The types of financial assets or liabilities generally included in Level 1 are publicly traded equity securities, derivatives, and debt securities issued by governmental bodies.
- Level 2—fair value measurements are those derived from inputs other than quoted prices included
  within Level 1 that are observable for the asset or liability, either directly (i.e. prices) or indirectly (i.e.
  derived from prices). The types of financial assets or liabilities generally included in Level 2 are debt
  securities not traded in active markets and derivatives traded in OTC but not required significant
  judgment.
- Level 3—fair value measurements are those derived from valuation technique that include inputs for the assets or liabilities that are not based on observable market data (unobservable inputs). The types of financial assets or liabilities generally included in Level 3 are non-public securities and derivatives and debt securities of which valuation techniques require significant judgments and subjectivity.

The inputs used to measure fair value may fall into different levels of the fair value hierarchy. In such cases, the level within the fair value hierarchy is based on the lowest level of input that is significant to the fair value measurement. The Group's assessment of the significance of a particular input to a fair value measurement in its entirety requires judgment and consideration of inherent factors of the asset or liability.

(2) Fair value hierarchy of financial assets and liabilities measured at fair value are as follows (Unit: Korean Won in millions):

	December 31, 2021			
	Level 1(*)	Level 2(*)	Level 3	Total
Financial assets:				
Financial assets at FVTPL				
Deposits	65,072	_	_	65,072
Debt securities	817,584	1,923,538	2,117	2,743,239
Equity securities	25,879	_	303,985	329,864
Capital contributions	_	_	1,287,723	1,287,723
Beneficiary certificates	74,271	2,326,202	1,104,074	3,504,547
Loans		453,832	213,635	667,467
Derivative assets	10,911	4,762,872	29,348	4,803,131
Others			96,191	96,191
Sub-total	993,717	9,466,444	3,037,073	13,497,234
Financial assets at FVTOCI				
Debt securities	5,578,455	32,548,522		38,126,977
Equity securities	411,357		581,455	992,812
Sub-total	5,989,812	32,548,522	581,455	39,119,789
Derivative assets (Designated for hedging)		106,764		106,764
Total	6,983,529	42,121,730	3,618,528	52,723,787
Financial liabilities:				
Financial liabilities at FVTPL				
Deposits due to customers	65,016	_		65,016
Derivative liabilities	10,259	4,552,368	4,641	4,567,268
Securities sold	211,408	29,766		241,174
Sub-total	286,683	4,582,134	4,641	4,873,458
Derivative liabilities (Designated for hedging)		27,584		27,584
Total	286,683	4,609,718	4,641	4,901,042

<sup>(\*)</sup> There were no transfers between Level 1 and Level 2 of financial assets and liabilities measured at fair value. The Group recognizes transfers among levels at the end of reporting period in which events have occurred or conditions have changed.

	December 31, 2022			
	Level 1(*)	Level 2(*)	Level 3	Total
Financial assets:				
Financial assets at FVTPL				
Deposits	34,995	_		34,995
Debt securities	2,580,563	1,654,591	1,078	4,236,232
Equity securities	76,007	25	307,851	383,883
Capital contributions	_	_	1,976,474	1,976,474
Beneficiary certificates	45,394	2,398,592	1,458,776	3,902,762
Loans	_	794,723	104,505	899,228
Derivative assets	69,316	8,042,895	93,970	8,206,181
Other financial assets in foreign currency	_	_	41,679	41,679
Others	34,299		144,840	179,139
Sub-total	2,840,574	12,890,826	4,129,173	19,860,573
Financial assets at FVTOCI				
Debt securities	9,895,456	22,250,302	_	32,145,758
Equity securities	382,257		557,065	939,322
Sub-total	10,277,713	22,250,302	557,065	33,085,080
Derivative assets (designated for hedging)		37,786		37,786
Total	13,118,287	35,178,914	4,686,238	52,983,439
Financial liabilities:				
Financial liabilities at FVTPL				
Deposits due to customers	35,161	_		35,161
Derivative liabilities	11,700	8,883,976	9,449	8,905,125
Securities sold	12,113			12,113
Sub-total	58,974	8,883,976	9,449	8,952,399
Derivative liabilities (designated for hedging)	=	202,911		202,911
Total	58,974	9,086,887	9,449	9,155,310

<sup>(\*)</sup> Among financial assets and financial liabilities measured at fair value, the amount transferred from Level 2 to Level 1 is 2,835,187 million Won. The Group recognizes transfers among levels at the end of reporting period in which events have occurred or conditions have changed. A change in the judgement of the active market where the financial product was traded resulted the transfer between levels.

Financial assets and liabilities at FVTPL, financial liabilities at FVTPL designated as upon initial recognition, financial assets at FVTOCI, and derivative assets and liabilities are recognized at fair value. Fair value is the amount that would be received to sell an asset, or paid to transfer a liability, in an orderly transaction between market participants at the measurement date.

Financial instruments are measured at fair value using a quoted market price in active markets. If there is no active market for a financial instrument, the Group determines the fair value using valuation methods. Valuation methods and input variables for each type of financial instruments are as follows:

1) Valuation methods and input variables for each type of financial instrument classified into level 2 in December 31, 2021 and 2022 are as follows:

	Valuation methods	Input variables
Debt securities	Fair value is measured by discounting the future cash flows of debt securities applying the risk-free market rate with credit spread.	Risk-free market rate and credit spread
Beneficiary certificates	The beneficiary certificates classified as Level 2 are MMF and are measured at the standard price.	Values of underlying assets such as bond
Derivatives	Fair value is measured by models such as option model (Closed form), DCF model, FDM and Monte Carlo Simulation.	Discount rate, values of underlying assets such as foreign exchange rate and stock prices, volatility, risk-free market rate, forward rate, etc.
Loans	The future cash flows of debt instruments are measured at a discount by applying the market interest rate applied to entities with similar creditworthiness to the debtor.	Risk-free market rate and credit spread

2) Valuation methods and input variables for each type of financial instrument classified into level 3 in December 31, 2021 and 2022 are as follows:

	Valuation methods	Input variables
Loans	Fair value is calculated by using Binomial Tree, LSMC and Discounted Cash Flow Model which is a valuation technique commonly used in the market taking into account value of underlying assets, volatility, discount rate.	Value of underlying assets, Volatility, Discount rate
Debt securities	The future cash flows of debt instruments are measured at a discount by applying the market interest rate applied to entities with similar creditworthiness to debt securities issuers. Fair value is measured by models such as LSMC (Least-Squares Monte Carlo), Hull-white.	Risk-free market rate, credit spread, discount rate originated credit grade, volatility of stock price, volatility of interest rate
Equity securities, capital contributions and Beneficiary certificates	Among DCF (Discounted Cash Flow) Model, FCFE (Free Cash Flow to Equity) Model, Comparable Company Analysis, Dividend Discount Model, Risk-adjusted Rate of Return Method, Net Asset Value Method, LSMC, and Binomial Tree, Imputed Market Value Model more than one method is used given the characteristic of the subject of fair value measurement.	Risk-free market rate, market risk premium, corporate Beta, discount rate originated credit grade, stock prices, volatility of underlying asset, net asset value, volatility of stock price, volatility of interest rate, Capital increase amount, Fluctuation rate of real estate sale price, etc
Derivatives	Fair value is measured by models such as option model (Closed form), DCF model, FDM and Monte Carlo Simulation.	Discount rate, values of underlying assets such as foreign exchange rate and stock prices, volatility, etc.
Others	The fair value of the underlying asset, after calculating the fair value using the DCF model, etc., considering the price and volatility of the calculated underlying asset, is calculated using the binomial tree and least-squares Monte Carlo simulation (LSMC), which are commonly used valuation techniques in the market.	Stock prices, volatility of underlying assets, etc.

Valuation methods of financial assets and liabilities measured at fair value and classified into Level 3 and significant but unobservable inputs are as follows:

	Fair value measurement technique	Туре	Significant unobservable inputs	Range(%)	Impact of changes in significant unobservable inputs on fair value measurement
Loans	Binomial Tree		Stock prices	46.53%	Variation of fair value increases as volatility of underlying asset and stock price increases.
	DCF model		Discount rate	1.98%~2.18%	Fair value decreases as discount rate increases.
Derivative assets	Option valuation model and others	Equity related	Correlation coefficient	0.21~0.67	Variation of fair value increases as correlation coefficient increases.
Derivative liabilities	Option valuation model and	Equity related	Correlation coefficient	0.21~0.67	Variation of fair value increases as correlation coefficient increases.
	others		Volatility of underlying asset	11.74% ~ 97.16%	Variation of fair value increases as volatility of underlying assets increases.
Equity securities, capital contributions,	Binomial Tree		Stock prices, Volatility of underlying asset	28.40%	Variation of fair value increases as volatility of underlying asset and stock price increases.
and beneficiary certificates	DCF model and others		Discount rate	0.00%~19.14%	Fair value increases as discount rate decreases.
			Terminal growth rate	0.00%, 1.00%	Fair value increases as terminal growth rate increases.
			Liquidation value	0.00%	Fair value increases as liquidation value increases.
Others	Binomial Tree		Stock prices, Volatility of underlying asset	20.15%~36.19%	Variation of fair value increases as volatility of underlying asset and stock price increases.

Fair value of financial assets and liabilities classified into Level 3 is measured by the Group using its own valuation methods or using external specialists. Unobservable inputs used in the fair value measurements are produced by the internal system of the Group and the appropriateness of inputs is reviewed regularly.

(3) Changes in financial assets and liabilities measured at fair value classified into Level 3 are as follows (Unit: Korean Won in millions):

	For the year ended December 31, 2020							
	Beginning balance	Business combination	$\begin{array}{c} \textbf{Net} \\ \textbf{income} \\ \textbf{(loss)}^{(*1)} \end{array}$	Other comprehensive income	Purchases/ issuances	Disposals / settlements	Transfer to or out of Level 3(*2)	Ending balance
Financial assets:								
Financial assets at FVTPL								
Debt securities	5,826	_	(632)		2,627	(3,203)	_	4,618
Equity securities	464,741	3,894	(8,977)		5,088	(14,407)	32	450,371
Capital contributions	515,199	173,244	39,500	_	194,396	(56,654)	_	865,685
Beneficiary								
certificates		166,467	(7,919)			(231,908)	_	1,917,811
Loans		35,854	6,149	_	656,880	(642,450)	_	209,062
Derivative assets	25,048		9,458	_	9,501	(23,911)	(12,224)	7,872
Others	63,880		3,472		17,997	(370)		84,979
Sub-total	2,503,057	379,459	41,051		1,601,926	(972,903)	(12,192)	3,540,398
Financial assets at FVTOCI								
Equity securities	493,698			(4,920)	82,227	(2,482)	2,192	570,715
Total	2,996,755	379,459	41,051	(4,920)	1,684,153	(975,385)	(10,000)	4,111,113
Financial liabilities: Financial liabilities at FVTPL Derivative liabilities Financial liabilities at FVTPL designated as upon initial recognition	72,039	_	30,150	_	2,650	(66,170)	(18,533)	20,136
Equity-linked securities Derivative liabilities (designated for	,	_	665	_	_	(68,661)	_	19,630
hedging)	321					(321)		
Total	159,986		30,815		2,650	(135,152)	(18,533)	39,766

<sup>(\*1)</sup> For financial liabilities, positive numbers represent losses that increase balance and negative numbers represent gains that decrease balance. The gain amounting to 37,430 million Won for the year ended December 31, 2020, which is from financial assets and liabilities that the Group holds as at the end of the year.

<sup>(\*2)</sup> There were transfers between levels as the availability of observable market data for these financial instruments changed. The Group recognizes transfers among levels at the end of reporting period in which events have occurred or conditions have changed.

	For the year ended December 31, 2021						
	Beginning balance	Net income (loss)(*1)	Other comprehensive income	Purchases/ issuances		Transfer to or out of Level 3(*2)	Ending balance
Financial assets:							
Financial assets at FVTPL							
Debt securities	4,618	(431)	_	1,000	(4,070)	1,000	2,117
Equity securities	450,371	(24,501)	_	33,570	(154,455)	(1,000)	303,985
Capital contributions	865,685	82,596	_	575,643	(236,201)	_	1,287,723
Beneficiary certificates	1,917,811	10,347	_	86,224	(910,308)	_	1,104,074
Loans	209,062	16,975	_	761,045	(773,447)	_	213,635
Derivative assets	7,872	22,256	_	5,058	_	(5,838)	29,348
Others	84,979	12,245	_	14,982	(16,548)	533	96,191
Sub-total	3,540,398	119,487		1,477,522	(2,095,029)	(5,305)	3,037,073
Financial assets at FVTOCI							
Equity securities	570,715		11,362	645	(1,267)		581,455
Total	4,111,113	119,487	11,362	1,478,167	(2,096,296)	(5,305)	3,618,528
Financial liabilities: Financial liabilities at FVTPL Derivative liabilities	20,136	4,926	_	(3,979)	(10,188)	(6,254)	4,641
Equity-linked securities	19,630	(102)	_	_	(19,528)	_	_
Total	39,766	4,824		(3,979)	(29,716)	(6,254)	4,641

<sup>(\*1)</sup> For financial liabilities, positive numbers represent losses that increase balance and negative numbers represent gains that decrease balance. The gain amounting to 2,634 million Won for the year ended December 31, 2021, which is from financial assets and liabilities that the Group holds as at the end of the year.

<sup>(\*2)</sup> There were transfers between levels as the availability of observable market data for these financial instruments changed. The Group recognizes transfers among levels at the end of reporting period in which events have occurred or conditions have changed.

	Beginning balance	Net income (loss)(*1)	Other comprehensive income	Purchases/ issuances	Disposals / settlements	Transfer to or out of Level 3(*2)	Ending balance
Financial assets:							
Financial assets at FVTPL							
Debt securities	2,117	(40)	_	_	(999)	_	1,078
Equity securities	303,985	697	_	20,175	(16,974)	(32)	307,851
Capital contributions	1,287,723	103,376	_	703,160	(117,785)	_	1,976,474
Beneficiary certificates	1,104,074	(2,922)	_	98,420	259,204	_	1,458,776
Loans	213,635	17,544	_	802,092	(928,766)	_	104,505
Derivative assets	29,348	64,359	_	582	(319)	_	93,970
Other foreign currency							
financial assets	_	_	_	41,679	_	_	41,679
Others	96,191	16,744		40,836	(8,931)		144,840
Sub-total	3,037,073	199,758		1,706,944	(814,570)	(32)	4,129,173
Financial assets at FVTOCI							
Equity securities	581,455		2,084	2,357	(28,831)		557,065
Total	3,618,528	199,758	2,084	1,709,301	(843,401)	(32)	4,686,238
Financial liabilities:							
Financial liabilities at FVTPL							
Derivative liabilities	4,641	8,058		(351)	(2,899)		9,449
Total	4,641	8,058		(351)	(2,899)		9,449

(4) Sensitivity analysis results on reasonable fluctuation of the significant unobservable input variables for the fair value of Level 3 financial instruments are as follows.

The sensitivity analysis of the financial instruments has been performed by classifying with favorable and unfavorable changes based on how changes in unobservable assumptions would have effects on the fluctuations of financial instruments' value. When the fair value of a financial instrument is affected by more than one unobservable assumption, the below table reflects the most favorable or the most unfavorable changes which resulted from varying the assumptions individually. The sensitivity analysis was performed for two types of level 3 financial instruments: (1) interest rate related derivatives, currency related derivatives, equity related derivatives, equity-linked securities beneficiary certificates and loans of which fair value changes are recognized as net income; (2) equity securities of which fair value changes are recognized as other comprehensive income.

Meanwhile, among the financial instruments that are classified as Level 3 amounting to 3,623,168 million Won and 4,695,688 million Won as of December 31, 2021 and 2022 respectively, equity instruments of 3,030,775 million Won and 3,196,703 million Won whose carrying amount are considered to represent the reasonable approximation of fair value are excluded from the sensitivity analysis.

<sup>(\*1)</sup> For financial liabilities, positive numbers represent losses that increase balance and negative numbers represent gains that decrease balance. The gain amounting to 2,770 million Won for the year ended December 31, 2022, which is from financial assets and liabilities that the Group holds as at the end of the year.

<sup>(\*2)</sup> There were transfers between levels as the availability of observable market data for these financial instruments changed. The Group recognizes transfers among levels at the end of reporting period in which events have occurred or conditions have changed.

The sensitivity on fluctuation of input variables by financial instruments as of December 31, 2020, 2021 and 2022 is as follows (Unit: Korean Won in millions):

	December 31, 2020			
	Net income (loss)			nprehensive ne (loss)
	Favorable	Unfavorable	Favorable	Unfavorable
Financial assets:				
Financial assets at FVTPL				
Derivative assets(*1)	110	(257)	_	
Loans(*2)	933	(932)	_	
Debt securities	13	(10)	_	
Equity securities <sup>(*2)(*3)(*4)</sup>	8,539	(7,337)	_	
Beneficiary certificates(*4)	1,403	(1,537)	_	
Others(*2)	640	(547)	_	
Financial assets at FVTOCI				
Equity securities(*3)(*4)			21,587	(16,740)
Total	11,638	(10,620)	21,587	(16,740)
Financial liabilities:				
Financial liabilities at FVTPL				
Derivative liabilities(*1)	776	(405)	_	
Financial liabilities at FVTPL designated as upon initial				
recognition				
Equity-linked securities(*1)	57	(45)		
Total	833	(450)		

<sup>(\*1)</sup> Fair value changes of equity related derivatives assets and liabilities and equity-linked securities are calculated by increasing or decreasing historical volatility of the stock price and correlation, which are major unobservable variables, by 10%, respectively. In the case of interest rate related derivative assets and liabilities, fair value changes are calculated by increasing or decreasing the volatility of interest rate, which are major unobservable variables, by 10%.

<sup>(\*2)</sup> Fair value changes of equity securities are calculated by increasing or decreasing stock prices (-10%~10%) and volatility (-10~10%). The stock prices and volatility are major unobservable variables.

<sup>(\*3)</sup> Fair value changes of equity securities are calculated by increasing or decreasing terminal growth rate (0~1%) and discount rate (-1~1%) or liquidation value (-1~1%). The growth rate, discount rate, and liquidation value are major unobservable variables.

<sup>(\*4)</sup> Even if the sensitivity analysis of the capital contributions and beneficiary certificates is not possible in practice, fair value changes of beneficiary certificates and other securities whose major unobservable variables are composed of the real estate are calculated by increasing or decreasing price fluctuation rate of real estate which is underlying assets and discount rate by 1%.

	December 31, 2021			
	Net income (loss)		Other comprehensive income (loss)	
	Favorable	Unfavorable	Favorable	Unfavorable
Financial assets:				
Financial assets at FVTPL				
Derivative assets(*1)	1,668	(1,191)	_	_
Loans(*2)	682	(671)	_	_
Debt securities	13	(12)	_	
Equity securities <sup>(*2)(*3)(*4)</sup>	6,348	(5,331)	_	_
Beneficiary certificates(*4)	1,305	(1,171)	_	_
Others(*2)	921	(876)	_	_
Financial assets at FVTOCI				
Equity securities(*3)(*4)			30,391	(23,865)
Total	10,937	(9,252)	30,391	(23,865)
Financial liabilities:				
Financial liabilities at FVTPL				
Derivative liabilities(*1)	205	(264)		
Total	205	(264)		
Financial liabilities: Financial liabilities at FVTPL Derivative liabilities(*1)	205	(264)	30,391	(23,865)

<sup>(\*1)</sup> Fair value changes of equity related derivatives assets and liabilities and equity-linked securities are calculated by increasing or decreasing historical volatility of the stock price and correlation, which are major unobservable variables, by 10%, respectively. In the case of interest rate related derivative assets and liabilities, fair value changes are calculated by increasing or decreasing the volatility of interest rate, which are major unobservable variables, by 10%.

- (\*2) Fair value changes of equity securities are calculated by increasing or decreasing stock prices (-10%~10%) and volatility (-10~10%). The stock prices and volatility are major unobservable variables.
- (\*3) Fair value changes of equity securities are calculated by increasing or decreasing terminal growth rate (-0.5%~0.5%) and discount rate (-1~1%) or liquidation value (-1~1%). The growth rate, discount rate, and liquidation value are major unobservable variables.
- (\*4) Even if the sensitivity analysis of the capital contributions and beneficiary certificates is not possible in practice, fair value changes of beneficiary certificates and other securities whose major unobservable variables are composed of the real estate are calculated by increasing or decreasing price fluctuation rate of real estate which is underlying assets and discount rate by 1%.

	December 31, 2022			
	Net income (loss)		Other comprehensiv income (loss)	
	Favorable	Unfavorable	Favorable	Unfavorable
Financial assets:				
Financial assets at FVTPL				
Derivative assets(*1)	2,453	(1,993)	_	_
Loans(*2)	203	(200)	_	
Debt securities	1	_	_	
Equity securities <sup>(*2)(*3)(*4)</sup>	10,146	(8,079)	_	
Beneficiary certificates(*4)	737	(737)	_	
Others(*2)	2,860	(2,790)	_	
Financial assets at FVTOCI	_	_	_	
Equity securities(*3)(*4)			24,370	(17,579)
Total	16,400	(13,799)	24,370	(17,579)
Financial liabilities:				
Financial liabilities at FVTPL				
Derivative liabilities(*1)	41	(39)		
Total	41	(39)		

<sup>(\*1)</sup> Fair value changes of equity related derivatives assets and liabilities and equity-linked securities are calculated by increasing or decreasing historical volatility of the stock price and correlation, which are major unobservable variables, by 10%, respectively. In the case of interest rate related derivative assets and liabilities, fair value changes are calculated by increasing or decreasing the volatility of interest rate, which are major unobservable variables, by 10%.

- (\*2) Fair value changes of equity securities are calculated by increasing or decreasing stock prices (-10%~10%) and volatility (-10~10%). The stock prices and volatility are major unobservable variables.
- (\*3) Fair value changes of equity securities are calculated by increasing or decreasing terminal growth rate (-0.5%~0.5%) and discount rate (-1~1%) or liquidation value (-1~1%). The growth rate, discount rate, and liquidation value are major unobservable variables.
- (\*4) Even if the sensitivity analysis of the capital contributions and beneficiary certificates is not possible in practice, fair value changes of beneficiary certificates and other securities whose major unobservable variables are composed of the real estate are calculated by increasing or decreasing price fluctuation rate of real estate which is underlying assets and discount rate by 1%.

(5) Fair value and carrying amount of financial assets and liabilities that are recorded at amortized cost are as follows (Unit: Korean Won in millions):

	December 31, 2021							
		Fair value						
	Level 1	Level 2	Level 3	Total	Carrying amount			
Financial assets:								
Securities at amortized cost	2,122,401	14,921,119	_	17,043,520	17,086,274			
Loans and other financial assets at								
amortized cost	_	3	346,871,245	346,871,248	348,885,617			
Financial liabilities:								
Deposits due to customers	_	318,070,829	_	318,070,829	317,899,871			
Borrowings	_	23,393,520	1,270,305	24,663,825	24,755,459			
Debentures	_	44,500,963	_	44,500,963	44,653,864			
Other financial liabilities	_	23,216,929	379,534	23,596,463	23,890,017			

December	31.	2022
December	21.	4044

	Fair value				Carrying	
	Level 1	Level 2	Level 3 Total		amount	
Financial assets:						
Securities at amortized cost	2,652,449	24,623,369	_	27,275,818	28,268,516	
Loans and other financial assets at						
amortized cost	_	6,238,724	345,952,544	352,191,268	355,760,729	
Financial liabilities:						
Deposits due to customers	_	343,931,576	_	343,931,576	342,105,209	
Borrowings	_	26,063,256	2,135,047	28,198,303	28,429,603	
Debentures	_	42,918,411	_	42,918,411	44,198,486	
Other financial liabilities	_	21,244,664	536,209	21,780,873	22,492,705	

The fair values of financial instruments are measured using quoted market price in active markets. In case there is no active market for financial instruments, the Group determines the fair value by using valuation methods. Valuation methods and input variables for financial assets and liabilities that are measured at amortized cost are given as follows:

	Valuation methods	Input variables
Securities at amortized cost	The fair value is measured by discounting the projected cash flows of debt securities by applying risk-free market rate with credit spread.	Risk-free market rate and credit spread
Loans and other financial assets at amortized cost	The fair value is measured by discounting the projected cash flows of loan products by applying the market discount rate that has been applied to a proxy company that has similar credit rating to the debtor.	Risk-free market rate, credit spread and prepayment rate
Deposits due to customers, borrowings, debentures and other financial liabilities	The fair value is measured by discounting the projected cash flows of debt products by applying the market discount rate that is reflecting credit rating of the Group.	Risk-free market rate, credit spread and forward rate

# (6) Financial instruments by category

Carrying amounts of financial assets and liabilities by each category are as follows (Unit: Korean Won in millions):

	December 31, 2021					
Financial assets	Financial asset at FVTPL	Financial assets at FVTOCI	Financial assets at amortized cost	Derivatives assets (designated for hedging)	Total	
Deposits	65,072	_	2,866,884	_	2,931,956	
Securities	7,960,046	39,119,789	17,086,274	_	64,166,109	
Loans	667,467	_	336,799,510	_	337,466,977	
Derivative assets	4,803,131	_	_	106,764	4,909,895	
Other financial assets	1,518		9,219,223		9,220,741	
Total	13,497,234	<u>39,119,789</u>	365,971,891	106,764	418,695,678	

		December 31, 2021				
Financial liabilities		Financial liabilities at FVTPL	Financial liabilities at amortized cost	Derivatives liabilities (designated for hedging)	Total	
Deposits due to customers		65,016	317,899,871	_	317,964,887	
Borrowings		241,174	24,755,459	_	24,996,633	
Debentures		_	44,653,864	_	44,653,864	
Derivative liabilities		4,567,268	_	27,584	4,594,852	
Other financial liabilities			23,890,017		23,890,017	
Total		4,873,458	411,199,211	27,584	416,100,253	
			December 31, 20			
Financial assets	Financial asset at FVTPL	Financial assets at FVTOCI	Financial assets at amortized cost	Derivatives assets (designated for hedging)	Total	
Deposits	34,995		2,994,672	_	3,029,667	
Securities	10,676,985	33,085,080	28,268,516	_	72,030,581	
Loans	899,228	_	343,918,560	_	344,817,788	
Derivative assets	8,206,181	_	_	37,786	8,243,967	
Other financial assets	43,184		8,847,497		8,890,681	
Total	19,860,573	33,085,080	384,029,245	37,786	437,012,684	
			Decemb	per 31, 2022		
Financial liabilities		Financial liabilities at FVTPL	Financial liabilities at amortized cost	Derivatives liabilities (designated for hedging)	Total	
Deposits due to customers		35,161	342,105,209	_	342,140,370	
Borrowings		,	28,429,603	_	28,441,716	
Debentures		_	44,198,486	_	44,198,486	
Derivative liabilities		8,905,125	_	202,911	9,108,036	
Other financial liabilities			22,492,707		22,492,707	
Total		8,952,399	437,226,005	202,911	446,381,315	

# (7) Income or expense from financial instruments by category

Income or expense from financial assets and liabilities by each category during the years ended December 31, 2020, 2021 and 2022 are as follows (Unit: Korean Won in millions):

		For the ye	ar ended Decer	mber 31, 2020		
	Interest Income (expense)	Fees and Commissions Income (expense)	Reversal (provision) of credit loss	Gain or loss on transactions and valuation	Dividends,	Total
Financial assets at FVTPL	48,612	_	_	421,709	120,158	590,479
Financial assets at FVTOCI	437,527	311	(1,529)	24,138	18,385	478,832
Securities at amortized cost	382,988	_	934	_	_	383,922
Loans and other financial assets at amortized cost Financial liabilities at amortized	8,654,726	376,872	(792,250)	44,443	_	8,283,791
cost	(3,516,023)	_	_	_	_	(3,516,023)
hedging)	_	_	_	(74,213)	_	(74,213)
Total	6,007,830	377,183	(792,845)	416,077	138,543	6,146,788
		For the ye	ar ended Decer	mber 31, 2021		
	Interest Income (expense)	Fees and Commissions Income (expense)	Reversal (provision) of credit loss	Gain or loss on transactions and valuation	Dividends, etc.	Total
Financial assets at FVTPL	45,803	(156)		325,751	284,683	656,081
Financial assets at FVTOCI	381,814	1,343	(4,909)			435,400
Securities at amortized cost	324,920	_	(664)	_	_	324,256
Loans and other financial assets at amortized cost Financial liabilities at amortized	9,142,212	494,296	(551,957)	107,317	_	9,191,868
cost  Net derivatives (designated for	(2,901,592)	2,205	_	_	_	(2,899,387)
hedging)	_	_	_	72,493	_	72,493
Total	6,993,157	497,688	(557,530)	538,185	309,211	7,780,711
		For the ye	ar ended Decen	nber 31, 2022		
		Fees and	Reversal	Gain or loss on		
	Interest Income (expense)	Commissions	(provision) of		Dividends, etc.	Total
Financial assets at FVTPL	106,698	(134)	_	238,502	136,136	481,202
Financial assets at FVTOCI	632,615	1,606	827	(21,498)	23,846	637,396
Securities at amortized cost	515,246	_	(3,151)	_	_	512,095
Loans and other financial assets at amortized cost Financial liabilities at amortized	13,399,990	600,902	(881,668)	74,204	_	13,193,428
cost  Net derivatives (designated for	(5,950,277)	2,094	_	_	_	(5,948,183)
hedging)	_	_	_	78,822	_	78,822
Total	8,704,272	604,468	(883,992)	370,030	159,982	8,954,760

### 12. DERECOGNITION AND OFFSET OF FINANCIAL INSTRUMENTS

# (1) Derecognition of financial instruments

Transferred financial assets that do not meet the condition of derecognition in their entirety.

### 1) Bonds sold under repurchase agreements

The financial instruments that were disposed but the Group agreed to repurchase at the fixed amounts at the same time, so that they did not meet the conditions of derecognition, are as follows (Unit: Korean Won in millions):

		December 31, 2021	December 31, 2022
Assets transferred	Financial assets at FVTPL	248,009	214,577
	Financial assets at FVTOCI	127,065	583,198
	Securities at amortized cost	38,995	1,171,300
	Total	414,069	1,969,075
Related liabilities	Bonds sold under repurchase agreements	749,976	1,898,744

#### 2) Securities loaned

When the Group loans its securities to outside parties, the legal ownerships of the securities are transferred; however, they should be returned at the end of lending period. Therefore, the Group does not derecognize them from the consolidated financial statements as it owns majority of risks and benefits from the securities continuously, regardless of the transfer of legal ownership. The carrying amount of the securities loaned are as follows (Unit: Korean Won in millions):

		2021	2022	Loaned to
Financial assets at FVTOCI	Korean treasury and			Korea Securities Finance
	government bonds	98,535	98,027	Corporation

#### 3) Liquidity of financial assets

As of December 31, 2021 and 2022, the consolidated structured companies issued asset-backed securities with loans and corporate bonds held by the Group as liquid assets, and the Group bear related risks through the purchase agreements or credit contributions. The transaction details of the transfer of the financial instrument are as follows:

		<b>December 31, 2021</b>	December 31, 2022
		Carrying amount (*)	Carrying amount (*)
Assets transferred	Financial assets at FVPL	151,930	49,808
	Loans at amortized cost	4,682,882	4,640,182
Related liabilities	Asset-backed borrowings	2,424,080	231,800
	Asset-backed bonds	978,274	1,209,364

<sup>(\*)</sup> The carrying amount is the amount before the allowance for bad debts.

On the other hand, the details of transferred financial assets that have not been removed, such as bonds sold under the repurchase agreement and loan securities, are also described in Note 18. The Group does not have financial instruments that are continuously involved.

### (2) The offset of financial assets and liabilities

The Group possesses both the uncollected domestic exchange receivables and the unpaid domestic exchange payable, which satisfy offsetting criteria of IAS 32. Therefore, the total number of uncollected domestic exchange receivables has been offset with a part of unpaid domestic exchange payables, and they have been disclosed in loans at amortized cost and other financial assets and other financial liabilities of the Group's statements of financial position, respectively.

The Group possesses the derivative assets, derivative liabilities, receivable spot exchange and payable spot exchange that do not satisfy the offsetting criteria of IAS 32 but provide the Group under the circumstances of the trading party's defaults, insolvency or bankruptcy, with the right of offsetting. Items such as cash collateral cannot satisfy the offsetting criteria of IAS 32, but in accordance with the collateral arrangements and under the circumstances of the trading party's default, insolvency or bankruptcy, the net amount of derivative assets and derivative liabilities, receivable spot exchange and payable spot exchange can be offset.

The Group has entered into a resale and repurchase agreement and accounted it as a collateralized borrowing. The Group has also entered into a resale and purchase agreement and accounted it as a secured loans. The Group under the repurchase agreements has an offsetting right only upon the counterparty's default, insolvency or bankruptcy; thus, the repurchase agreements are applied by the TBMA/ISMA Global Master Repurchase Agreement, which does not satisfy the offsetting criteria of IAS 32. The Group disclosed bonds sold under repurchase agreements as borrowings and bonds purchased under resale agreements as loan at amortized cost and other financial assets.

As of December 31, 2021 and 2022, the financial instruments to be offset and may be covered by master netting agreements and similar agreements are as follows (Unit: Korean Won in millions):

	December 31, 2021					
	Gross	Gross	Net		Related amounts not setoff in the consolidated statement of financial position	
	amounts of recognized financial assets	amounts of recognized financial assets setoff	consolidated financial assets presented	Netting agreements and others	Cash collateral received and others	Net amounts
Financial assets:						
Derivative assets <sup>(*1)</sup>	4,172,737	_	4,172,737	9 260 79 <i>1</i>	552,071	1,275,186
Receivable spot exchange(*2)	5,915,304	_	5,915,304	0,200,704	332,071	1,273,100
Bonds purchased under resale						
agreements(*2)	10,332,858	_	10,332,858	10,332,858	_	_
Domestic exchange settlement						
debits <sup>(*2)(*5)</sup>	42,358,138	42,275,583	82,555			82,555
Total	<u>62,779,037</u>	42,275,583	20,503,454	18,593,642	552,071	1,357,741
Financial liabilities:						
Derivative liabilities(*1)	3,708,263	_	3,708,263	9 755 402	114,716	754,855
Payable spot exchange(*3)	5,916,800		5,916,800	6,733,492	114,/10	134,633
Bonds sold under repurchase						
agreements(*4)	749,976	_	749,976	749,976	_	_
Domestic exchange settlement						
credits <sup>(*3)(*5)</sup>	48,982,056	42,275,583	6,706,473	3,401,251		3,305,222
Total		42,275,583				

<sup>(\*1)</sup> The items include derivative assets and liabilities held for trading and designated for hedging.

<sup>(\*2)</sup> The items are included in loan at amortized cost and other financial assets.

- (\*3) The items are included in other financial liabilities.
- (\*4) The items are included in borrowings.
- (\*5) Certain financial assets and liabilities are presented as net amounts.

	December 31, 2022					
	Gross	Net		Related amounts not setoff in the consolidated statement of financial position		
	amounts of recognized financial assets	amounts of recognized financial assets setoff	consolidated financial assets presented	Netting agreements and others	Cash collateral received and others	Net amounts
Financial assets:						
Derivative assets <sup>(*1)</sup>	7,032,465	_	7,032,465	0 175 416	748,981	1 616 770
Receivable spot exchange(*2)	4,508,711	_	4,508,711	9,173,410	740,901	1,010,779
Bonds purchased under resale						
agreements(*2)	6,793,938	_	6,793,938	6,793,938	_	_
Domestic exchange settlement						
debits <sup>(*2)(*5)</sup>	39,787,371	39,209,452	577,919			577,919
Total	<u>58,122,485</u>	<u>39,209,452</u>	18,913,033	15,969,354	748,981	2,194,698
Financial liabilities:						
Derivative liabilities(*1)	7,652,440	_	7,652,440	10.042.002	145 260	1 072 605
Payable spot exchange(*3)	4,508,615	_	7,652,440 4,508,615	10,043,092	143,208	1,972,093
Bonds sold under repurchase						
agreements(*4)	2,313,044	_	2,313,044	2,313,044	_	_
Domestic exchange settlement						
credits <sup>(*3)(*5)</sup>	43,841,373	39,209,452	4,631,921	2,504,062		2,127,859
Total	58,315,472	<u>39,209,452</u>	<u>19,106,020</u>	14,860,198	145,268	4,100,554

<sup>(\*1)</sup> The items include derivative assets and liabilities held for trading and designated for hedging.

<sup>(\*2)</sup> The items are included in loan at amortized cost and other financial assets.

<sup>(\*3)</sup> The items are included in other financial liabilities.

<sup>(\*4)</sup> The items are included in borrowings.

<sup>(\*5)</sup> Certain financial assets and liabilities are presented as net amounts.

# 13. INVESTMENTS IN JOINT VENTURES AND ASSOCIATES

(1) Investments in associates accounted for using the equity method of accounting are as follows:

		Percentage of ownership (%)			
Joint ventures and associates(*4)	Main business	December 31, 2021	December 31, 2022	Location	Financial statements as of
Woori Bank					
W Service Networks Co., Ltd.(*1)	Freight & staffing services	4.9	4.9	Korea	2022.11.30(*5)
Korea Credit Bureau Co., Ltd. (*2)	Credit information	9.9	9.9	Korea	2022.11.30(3)
Korea Finance Security Co., Ltd. (*1)	Security service	15.0	15.0	Korea	2022.12.31
Wongwang Co., Ltd. (*3)	Wholesale and real estate	29.0	29.0	Korea	2022.11.30
Sejin Construction Co., Ltd.(*3)	Construction	29.6	29.6	Korea	_
ARES-TECH Co., Ltd. (*3)	Electronic component	29.0	29.0	Korca	_
ARES TECH Co., Etc.	manufacturing	23.4	23.4	Korea	_
Reading Doctors Co., Ltd.(*3)(*11)	Other services	35.4	23.4	Korea	_
Cultizm Korea LTD Co., Ltd.(*3)(*11)	Wholesale and retail sales	31.3	_	Korea	
NK Eng Co., Ltd.(*3)	Manufacturing	23.1	23.1	Korea	_
	Telecommunication equipment				
6,,	retail sales	23.1	23.1	Korea	_
Woori Growth Partnerships New					
Technology Private Equity Fund 2016KIF-IMM Woori Bank	Other financial services	23.1	23.1	Korea	2022.12.31
Technology Venture Fund	Other financial services	20.0	20.0	Korea	2022.12.31
K BANK Co., Ltd.(*2)	Finance	12.6	12.6	Korea	2022.12.31
Woori Bank-Company K Korea Movie					
Asset Fund <sup>(*9)</sup>	Other financial services	25.0	25.0	Korea	2022.12.31
Fund	Other financial services	23.3	23.3	Korea	2022.12.31
IBK KIP Seongjang Dideemdol 1st Private Investment Limited					
Partnership	Other financial services	20.0	20.0	Korea	2022.12.31
Venture Specialist Private Equity Fund	Other financial services	25.0	25.0	Korea	2022.12.31
LOTTE CARD Co., Ltd	Credit card and installment financing	20.0	20.0	Korea	2022.9.30(*5)
Together-Korea Government Private Pool Private Securities Investment		100.0	100.0		2022 12 21
Trust No. 3	Other financial services	100.0	100.0	Korea	2022.12.31
Company 1st Private Equity Fund(*8)	Trust and collective investment	24.8	_	Korea	_
Union Technology Finance Investment Association		29.7	29.7	Korea	2022.12.31
Dicustody Co., Ltd. (*2)	and computer operation related	1.0	1.0	17	2022 12 21
Orient Shipyard Co., Ltd.(*3)	services  Manufacture of sections for	1.0	1.0	Korea	2022.12.31
Orient Shipyard Co., Ltd. 5			22.7	Korea	2022.12.31
Joongang Network Solution	ships Other information technology	_	22.1	Korea	2022.12.31
Co.,Ltd.(*3)					
Co.,Ltd.	services		25.3	Korea	
BTS 2nd Private Equity Fund	Other financial services		20.0	Korea	2022.12.31
STASSETS FUND III	Other financial services		28.3	Korea	2022.12.31
Woori Bank <sup>(*6)</sup>	Other infalicial services	_	26.3	Korca	2022.12.31
Japanese Hotel Real Estate Private	Other financial services	10.0	19.9	Voras	2022 12 21
Equity Fund No.2	Trust and collective	19.9		Korea	2022.12.31
Asset Fund No.1	investment	25.0	25.0	Korea	2022.12.31
Bond)(*8)	Collective investment business	20.0	_	Korea	_

		Percentage of	ownership (%)		
			December 31,		Financial
Joint ventures and associates(*4)	Main business	2021	2022	Location	statements as of
Woori Short-term Bond Securities Investment Trust(Bond) ClassC-F Woori Safe Plus General Type Private	Collective investment business	14.5	27.9	Korea	2022.12.31
Investment Trust S-8(Bond)	Collective investment business	_	9.2	Korea	2022.12.31
Woori Financial Capital Co., Ltd.	04	25.6	25.6	IZ	2022 12 21
WOORI TAERIM 1st Fund	Other financial services Other financial services	25.6 20.0	25.6 20.0	Korea Korea	2022.12.31 2022.12.31
KIWOOM WOORI Financial 1st	Other infancial services	20.0	20.0	Korea	2022.12.31
Fund <sup>(*7)</sup>	Other financial services	9.1	9.1	Korea	2022.12.31
Investment Fund <sup>(*7)</sup>	Other financial services	11.9	11.9	Korea	2022.12.31
Fund	Other financial services	20.4	20.4	Korea	2022.12.31
Fund	Other financial services	_	21.0	Korea	2022.12.31
Koreawide partners 2nd Private Equity Fund	Other financial services	_	26.7	Korea	2022.12.31
Woori Investment Bank Co., Ltd. (*6) Woori FirstValue Private Real Estate					
Fund No.2	Real estate business	12.0	12.0	Korea	2022.12.31
WooriG Real Infrastructure Blind	Investment trust and				
General Type Private Placement	discretionary investment				
Investment Trust	business	0.3	0.1	Korea	2022.12.31
Woori Asset Management Co. Ltd.					
Woori BIG2 Plus Securities Investment Trust(Balanced Bond)(*12)	Callactive investment bysiness		22.1	Korea	2022 12 21
Woori Together TDF 2025(*12)		_	23.1 23.6	Korea	2022.12.31 2022.12.31
Woori Together TDF 2030 <sup>(*12)</sup>		_	23.8	Korea	2022.12.31
Woori Star50 feeder fund(H) $^{(*12)}$		_	17.9	Korea	2022.12.31
Woori Private Equity Asset Management	Conective investment business	_	17.9	Korea	2022.12.31
Co., Ltd.					
Woori Hanhwa Eureka Private Equity					
Fund(*10)	Other financial services	0.8	_	Korea	_
Aarden Woori Apparel 1st Private					
Equity Fund(*2)	Other financial services	0.5	0.5	Korea	2022.12.31
Woori Dyno 1st Private Equity					
Fund <sup>(*2)</sup>	Other financial services	_	19.6	Korea	2022.12.31
Australia Green Energy 1st PEF(*2)	Other financial services	_	4.0	Korea	2022.12.31
Japanese Hotel Real Estate Private Equity Fund 1					
Godo Kaisha Oceanos 1	Other financial services	47.8	47.8	Japan	2022.10.31(*5)
Woori G Japan Private Placement Real					
Estate Master Investment Trust No.2				_	
Woori Zip 1	Other financial services	63.9	64.0	Japan	2022.9.30(*5)
Woori Zip 2	Other financial services	63.8	64.0	Japan	2022.9.30(*5)
Woori bank and Woori card Co., Ltd.(*6)	G:	24.5	24.5	17	
Dongwoo C & C Co., Ltd.(*3)	Construction	24.5	24.5	Korea	_
SJCO Co., Ltd. <sup>(*3)</sup>	Aggregate transportation and wholesale	20.7	20.9	Vosso	
C2 Collection Co. I td (*3)	Wholesale and retail sales	29.7	29.8	Korea Korea	_
G2 Collection Co., Ltd.(*3)	Manufacturing	29.2 48.4	29.2	Korea	_
Kyesan Engineering Co., Ltd. (*3)	Construction	23.3	23.3	Korea	_
Good Software Lap Co., Ltd. (*3)	Service	29.4	29.4	Korea	<del>_</del>
QTS Shipping Co., Ltd.(*3)(*11)	Complex transportation	29.4	29.4	Korca	_
Q10 ompping co., Etc. A A A	brokerage	49.8	_	Korea	_
DAEA SNC Co., Ltd.(*3)	Wholesale and retail sales	25.5	25.5	Korea	_
Force TEC Co., Ltd.	Manufacturing	24.5	24.5	Korea	2022.9.30(*5)
PREXCO Co., Ltd.(*3)	Manufacturing	28.1	28.1	Korea	
JiWon Plating Co., Ltd. (*3)	Plating	20.8	20.8	Korea	
Youngdong Sea Food Co., Ltd. (*3) I	2		24.5	Korea	_
- canguag sear ood co., Etd.		0 21.5	21.5	110101	

		rercentage of	ownership (%)		
Joint ventures and associates(*4)	Main business	December 31, 2021	December 31, 2022	Location	Financial statements as of
KUM HWA Co., Ltd	Telecommunication equipment				
	retail sales	20.1	20.1	Korea	2022.09.30(*5)
Jinmyung Plus Co., Ltd	Manufacturing	21.3	21.3	Korea	2022.09.30(*5)
JC Assurance No.2 Private Equity					
Fund	Other financial services	24.4	23.5	Korea	2022.09.30(*5)
Dream Company Growth no.1 PEF		27.8	27.8	Korea	2022.12.31
HMS-Oriens 1st Fund	Other financial services	22.8	22.8	Korea	2022.12.31
Woori G Senior Loan Private Placement	Other imanetal services	22.0	22.0	Roica	2022.12.31
Investment Trust No.1	Collective investment business	21.7	21.7	Korea	2022.12.31
Genesis Eco No.1 Private Equity	Concerve investment business	21.7	21.7	Korca	2022.12.31
Fund  Paratus Woori Material Component	Other financial services	29.0	29.0	Korea	2022.12.31
Equipment joint venture company Midas No. 8 Private Equity Joint	Other financial services	29.9	29.9	Korea	2022.12.31
Venture Company	Other financial services	28.5	28.5	Korea	2022.12.31
Orchestra Private Equity Fund IV		26.5	28.2	Korea	2022.12.31
Synaptic Green No.1 PEF			21.1	Korea	2022.12.31
IGEN2022No. 1 Private Equity Fund			24.8	Korea	2022.12.31
Woori Bank and Woori Investment Bank	Other infancial services		24.0	Roica	2022.12.31
Co., Ltd. (*6)					
PCC-Woori LP Secondary Fund	Other financial services	38.8	38.8	Korea	2022.12.31
Woori bank and Woori Asset Management	Other infallerar services	30.0	30.0	Korca	2022.12.31
Co., Ltd. (*6)					
Woori High Plus Short-term High					
Graded ESG Bond Sec Feeder Inv					
Trust 1 <sup>(*10)</sup>	Collective investment business	27.5		Korea	
Woori Bank and Woori Private Equity Asset	Concerve investment business	21.3	_	Korca	_
Management Co., Ltd. (*6)					
Woori-Q Corporate Restructuring					
Private Equity Fund	Other financial services	38.1	35.6	Korea	2022.12.31
Woori Bank, Woori Financial Capital Co.,	Other infallerar services	30.1	33.0	Korca	2022.12.31
Ltd., Woori Investment Bank Co., Ltd.					
and Woori Private Equity Asset					
Management Co., Ltd. (*6)					
Woori-Shinyoung Growth-Cap Private					
Equity Fund I	Other financial services	35.0	35.0	Korea	2022.12.31
Equity Fund I	Guier illianciai services	33.0	33.0	Korca	2022.12.31

Percentage of ownership (%)

- (\*1) Most of the significant business transactions of associates are with the Group as of December 31, 2022 and 2021.
- (\*2) The Group can participate in decision-making body and exercise significant influence over financial policies and operational policies decision making of the associates.
- (\*3) There is no investment balance as of December 31, 2022 and 2021.
- (\*4) Woori G Oncorp Corporate support of Major Industry General Type Private Placement Investment Trust (Type 2) and other 13 joint ventures and associates can exercise significant influence but was classified as an item measured at fair value through profit or loss.
- (\*5) The equity method was applied using the most recent financial statements available from the settlement date because no financial statements were available at the end of the reporting period and the significant transactions or events that occurred between the end of the reporting period of the associate and the end of the reporting period of the subsidiary were duly reflected.
- (\*6) Two or more subsidiaries may invest or operate to exert significant influence on the decision-making process for activities related to the investee.
- (\*7) The Group can participate as a co-operator to exert significant influence.
- (\*8) It was excluded due to liquidation.
- (\*9) It was dissoluted and will be liquidated.
- (\*10) It was excluded from associates during the period.
- (\*11) It was excluded as Woori Bank sold its shares during the period.
- (\*12) It was reclassified to associate from subsidiary resulted from the loss of control along with the changes in percentage of ownership.

Changes in the carrying value of investments in associates accounted for using the equity method of accounting are as follows (Unit: Korean Won in millions): 6

Change in December 31, 3,066 8,125 9,816 13,238 74,097 2,788 9,756 422,832 22,904 8,128 52,045 4,129 38,342 10,023 3,979 4,485 10,193 3,234 6,076 1,024 15,032 1,481 403 (1,563)(17) (1,149)(186)(23) (1,905)(829) (1114)(1,404)84 capital Disposal/ Business Acquisition Reclassification Dividends combination For the year ended December 31, 2020 (104) (5,710)(850) (154)(257)(6) (212)(1,088)(178,355)(540)(466) (1,728)(492)(006)(117,170)(321)(346)(50,411)(12,124)(90,000)1,015 810 5,049 100,000 5,720 31,363 17,017 4,500 51,959 163,082 4,084 6,141 (18,334)profits (losses) (221)(742) (1,283)(75) (159) (432)87,180 1,370 (2,240)(15) 1,240 365 7,366 19,692 1,542 23 241 343 6 61 Acquisition January 1, cost 2020 6,845 3,287 51,176 849 31,254 2,764 3,323 209,023 9,908 4,576 4,375 409,444 6,046 2,525 10.952 19,212 3,291 11,841 15,141 9,756 3,313 2,915 10,000 23,146 51,959 1,015 3,267 2,100 4,130 32,480 7,575 10,000 3,738 10,800 6,000 16,938 11,893 236,232 346,810 4,500 3,291 Woori G Clean Energy No.1 ............ 2016KIF-IMM Woori Bank Technology Venture Fund ..... Saman Corporation ...... Woori Bank-Company K Korea Movie Asset Fund ...... Partner One Value Up I Private Equity Fund ..... Woori-Shinyoung Growth-Cap Private Equity Fund I ...... Woori-Q Corporate Restructuring Private Equity Fund ..... Union Technology Finance Investment Association ...... Japanese Hotel Real Estate Private Equity Fund No.2..... Woori High plus G.B. Securities Feeder Fund1(G.B.) ..... Korea Credit Bureau Co., Ltd. PCC-Woori LP Secondary Fund ...... Investment Trust No.3 ...... Woori Hanhwa Eureka Private Equity Fund ...... Crevisse Raim Impact 1st Startup Venture Specialist Private Woori Growth Partnerships New Technology Private Equity Well to Sea No.3 Private Equity Fund ..... Korea Finance Security Co., Ltd. Fogether-Korea Government Private Pool Private Securities Genesis Environmental Energy Company 1st Private Equity BK KIP Seongjang Dideemdol 1st Private Investment WooriG Senior Loan General Type Private Investment Limited Partnership ...... Chin Hung International Inc. W Service Networks Co., Ltd. .... Equity Fund ..... LOTTE CARD Co.,Ltd. ..... Smart Private Equity Fund No.2 Godo Kaisha Oceanos 1 . . . . . Force TEC Co., Ltd. ..... Fund ..... K BANK Co., Ltd. Fund

				For the	For the year ended December 31, 2020	nber 31, 2020	_		
		Sh January 1, p	Share of profits		Disposal/		Business	Change in	December 31,
	cost	2020	(losses)	Acquisition	Reclassification	Dividends	combination	capital	2020
Woori Goseong Power EBL Private Special Asset Fund			611	14,915		(408)	1	1	15,118
Woori Seoul Beltway Private Special Asset Fund No.1	5,590		67	5,591		(75)			5,613
WOORI TAERIM 1st Fund	1,100		(9)				289		283
Portone-Cape Fund No.1	1,000						096		096
KIWOOM WOORI Financial 1st Investment Fund	1,000		(9)	1,000					994
Woori FirstValue Private Real Estate Fund No.2	9,000		1,184					946	2,130
Woori Star50 Master Fund ClassC-F	200		(16)	200					184
JC Assurance No.2 Private Equity Fund	29,050			29,050					29,050
Dream Company Growth no.1 PEF	7,705			7,705					7,705
HMS-Oriens 1st Fund	12,000			12,000					12,000
Woori High Plus Short-term High Graded ESG Bond Sec									
Feeder Inv Trust 1	91,092		2,382	91,092			I		93,474
	974,968	806,360	101,077	552,368	(274,498)	(187,306)	1,249	(5,959)	993,291

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	Acquisition January 1,	January 1,	Share of profits		Disposal/		Change in	Change in December 31,
	COST	1707	(coscor)	noniginhay	Neciassilication	DIVIDENTA	Capitai	7707
W Service Networks Co., Ltd.	108	191	4)			4		183
Korea Credit Bureau Co., Ltd.	3,313	8,125	1,388			(06)		9,423
Korea Finance Security Co., Ltd.	3,267	3,066	35					3,101
Woori Growth Partnerships New Technology Private Equity Fund	14,991	15,032	(637)		(1,947)			12,448
2016KIF-IMM Woori Bank Technology Venture Fund	8,396	13,238	3,520		(3,497)	(631)		12,630
K BANK Co., Ltd. (*1)	236,232	174,097	67,553				(2,157)	239,493
Smart Private Equity Fund No.2		1,481	(797)		(684)			
Woori Bank-Company K Korea Movie Asset Fund		2,788	137		(2,100)	(480)		345
Partner One Value Up I Private Equity Fund	5,039	9,816	2,521		(4,961)	(800)		6,576
IBK KIP Seongjang Dideemdol 1st Private Investment Limited Partnership	9,736	9,756	1,417	5,040	(5,060)			11,153
Crevisse Raim Impact 1st Startup Venture Specialist Private Equity Fund	4,255	4,129		125				4,254
LOTTE CARD Co.,Ltd	346,810	422,832	39,301			(10,374)	6,536	458,295
No. 3	10,000	10,023	47					10,070
Genesis Environmental Energy Company 1st Private Equity Fund	3,738	3,979	147					4,126
Union Technology Finance Investment Association	12,750	4,485	(347)	8,250				12,388
Dicustody Co., Ltd.	1			1				1
Japanese Hotel Real Estate Private Equity Fund No.2	3,291	3,234	237			(201)	(74)	3,196
Woori G Clean Energy No.1		1,024		1,462	(2,338)	(148)		
Woori Goseong Power EBL Private Special Asset Fund		15,118	227		(15,118)	(370)	143	
Woori Seoul Beltway Private Special Asset Fund No.1	7,513	5,613	124	1,935		(121)		7,551
Woori Corporate Private Securities Fund 1 (Bond)				10,000	(10,000)			
Woori G Star Private Placement Investment Trust No.33 [FI]				20,000	(20,000)			
Woori Multi-Return Securities Investment Trust 3 (Balanced Bond)	10,000		23	10,000				10,023
Woori Short-term Bond Securities Investment Trust(Bond) ClassC-F	150,000		1,822	150,000				151,822
WOORI TAERIM 1st Fund	1,100	283	208					991
Portone-Cape Fund No.1	340	096	189		(099)			489
KIWOOM WOORI Financial 1st Investment Fund	1,000	994	(21)					973
DeepDive WOORI 2021-1 Financial Investment Fund	1,000		()	1,000				993
Darwin Green Packaging Private Equity Fund	4,000		(43)	4,000				3,957
Woori First Value Private Real Estate Fund No.2	9,000	2,130	(637)			(730)		763
Investment Trust	100			100				100
Woori High plus G.B. Securities Feeder Fund1(G.B.)		9/0,9			(6,076)			
Woori Star50 Master Fund ClassC-F		184	4 6 6		(180)			- 5
Woori Hannwa Eureka Private Equity Fund	100	403	138	100	(214)			32 <i>1</i> 99
Godo Kaisha Oceanos 1	10,800	10,193	127			(370)	(45)	9,905

For the year ended December 31, 2021

	Acquisition January 1, cost 2021	January 1, 2021	Share of profits (losses)	Acquisition ]	Share of Disposal/ profits Disposal/ (losses) Acquisition Reclassification	Dividends	Change in capital	Change in December 31, capital 2021
Woori Zip 1	10,143		(26)	16,380	(6,237)		379	10,496
Woori Zip 2	14,254		(50)	22,883	(8,628)		527	14,732
Force TEC Co., Ltd. (*2)		393	(393)					
KUM HWA Co., Ltd.(*2)								
Jinmyung Plus Co., Ltd.								
JC Assurance No.2 Private Equity Fund	29,349	29,050	(11,621)	299				17,728
Dream Company Growth no.1 PEF	7,706	7,705	089			(471)		7,914
HMS-Oriens 1st Fund	12,000	12,000	7					12,007
WooriG Senior Loan General Type Private Investment Trust No.1	87,382	52,045	2,959	38,757	(3,060)	(2,672)		88,029
Genesis Eco No.1 Private Equity Fund	11,805		(685)	11,805				11,120
Paratus Woori Material Component Equipment joint venture company	17,700		(207)	17,700				17,493
Midas No. 8 Private Equity Joint Venture Company	19,000		(32)	19,000				18,968
PCC-Woori LP Secondary Fund	10,100	8,128	1,697	2,525				12,350
Woori High Plus Short-term High Graded ESG Bond Sec Feeder Inv								
Trust 1	70,988	93,474	921	20,765	(38,870)	(2,503)		73,787
Woori-Q Corporate Restructuring Private Equity Fund	45,394	22,904	1,002	25,246	(2,997)			46,155
Woori-Shinyoung Growth-Cap Private Equity Fund I	17,218	38,342	20,813	12,799	(32,415)	(10,826)		28,713
•	1,210,083	993,291	132,228	400,172	(165,042)	(30,791)	5,309	1,335,167

(\*1) Included 70,120 million Won of deemed gain on disposal in accordance with the decrease in percentage of ownership from disproportionate contribution for the year ended December 31, 2021.

(\*2) As a result of discontinuation of the equity method, related companies' losses amount not recognized is 797 million Won for Force TEC Co., Ltd. and 2 million Won for KUM HWA Co., Ltd.

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	•		Share of profits					5
	Acquisition	January 1, 2022	(losses) and others	Acquisition	Disposal/ Reclassification	Dividends	Change in capital	December 31, 2022
W Service Networks Co., Ltd.	108	183	29			(4)		208
Korea Credit Bureau Co., Ltd.	3,313	9,423	(3,714)					5,709
Korea Finance Security Co., Ltd	3,267	3,101	(727)					2,374
	12,942	12,448	490		(2,049)			10,889
2016KIF-IMM Woori Bank Technology Venture Fund	7,594	12,630	(1,619)		(801)	(736)		9,474
K BANK Co., Ltd.	236,232	239,493	11,854		`   ,	`   ,	(3.558)	247,789
Woori Bank-Company K Korea Movie Asset Fund		345	71			(177)	`   ;	239
Partner One Value Up I Private Equity Fund IBK KIP Seongiang Dideemdol 1st Private Investment	5,039	6,576	(2,298)					4,278
Limited Partnership	7,556	11,153	1,312		(2,180)	l		10,285
Equity Fund	4,355	4,254	1	100	1			4,355
LOTTE CARD Co.,Ltd	346,810	458,295	58,400			(12,960)	10,396	514,131
Investment Trust No. 3	10,000	10,070	173					10,243
ronmental Energy Company 1st Private Equity			į		9	Í		
Fund Union Technology Finance Investment Association	14.637	4,126	(41) 187	2.250	(3,738)	(347)		14.462
., Ltd.	1	1				l		1
Orient Shipyard Co., Ltd.								
BTS 2nd Private Equity Fund	3,026		(145)	3,026				2,881
STASSETS FUND III	1,500		(270)	1,500			1	1,230
Jund	3,174	3,196	194			(299)	(236)	2,855
Woori Seoul Beltway Private Special Asset Fund No.1 Woori Multi-Return Securities Investment Trust 3 (Balanced	9,791	7,551	246	2,312		(235)		9,874
Bond)		10,023			(6,950)	(73)		
ClassC-F	110,000	151,822	2,312	50,000	(90,137)	(1,972)		112,025
S-8(Bond)	10,000		230	10,000	1	(48)		10,182
RIM 1st Fund	1,100	991	33					886
Portone-Cape Fund No.1	340	489	(5) (5)					464
KIWOUM WOOKI Financial 1st Investment Fund	1,000	9/3	(20)		6	6		953
Darwin Green Packaging Private Equity Fund	4.000	3.957	388		(001)	(400)		3.945
DS Power Semicon Private Equity Fund	3,000		245	3,000	1	(269)		2,976
Koreawide partners 2nd Private Equity Fund	20,000		1 :	20,000				20,000
Woori FirstValue Private Real Estate Fund No.2	9,000	763	(9)		(199)			558

For the year ended December 31, 2022

	Acquisition	January 1, 2022	Share of profits (losses) and others	Acquisition	Disposal/ Reclassification	Dividends	Change in capital	December 31, 2022
WooriG Real Infrastructure Blind General Type Private Placement Investment Trust	100	100	2					102
Bond)	1,200		(161)		1,235	1		1,074
Woori Together TDF 2025	2,000		(202)		2,192			1,990
WOORI 1 ogether 1 DF 2030	2,000		(214)		2,247			2,033
Woori Hanhwa Eureka Private Equity Fund	007	327	(48) (48)		(164)	(115)		071
Aarden Woori Apparel 1st Private Equity Fund	100	66	(5)	6				97
Wooti Dylio 1st Fitivate Equity Fund	2,000 4.913		(6)	2,000 4.913				1,994
Godo Kaisha Oceanos 1	10,800	9,905	84		1	(1,049)	(152)	8,788
Woori Zip 1	9,254	10,496	(138)		(873)		(795)	8,690
Force TEC Co., Ltd.(*)		1	56	l	(56,7)		(56)	
KUM HWA Co., Ltd. <sup>(*)</sup>								
Jinmyung Plus Co., Ltd.			10					10
JC Assurance No.2 Private Equity Fund	29,349	17,728	(17,728)					
Dream Company Growth no.1 PEF	7,412	7,914	418			(471)		7,861
HMS-Oriens 1st Fund	12,000	12,007	1,245					13,252
No.1	80,268	88,029	3,788	14,073	(20,322)	(3,707)		81,861
Genesis Eco No.1 Private Equity Fund	12,000	11,120	(66)	195	`			11,216
company	17,700	17,493	(243)					17,250
Midas No. 8 Private Equity Joint Venture Company	18,735	18,968	275			(530)		18,713
Orchestra Private Equity Fund IV	9,878		197	10,000	(122)	(377)		869'6
Synaptic Green No.1 PEF	8,000		(207)	8,000				7,793
IGEN2022No. 1 Private Equity Fund	7,822		650	8,000	(475)	(165)		8,010
PCC-Woori LP Secondary Fund	10,440	12,350	674	3,440	(3,480)			12,984
Feeder Inv Trust 1		73,787			(73,598)	(189)		1
Woori-Q Corporate Restructuring Private Equity Fund Woori-Shinvonno Growth-Can Private Fourty Fund I	27,063	46,155 28,713	(288)	536	(18,867)			27,536 43,274
	1,131,865	1,335,167	689,69	143,345	(222,922)	(24,126)	4,483	1,305,636

(\*) As a result of discontinuation of the equity method, related companies' losses amount not recognized is 665 million Won for Force TEC Co., Ltd. 3,743 million Won for Orient Shipyard Co., Ltd. and 0.2 million Won for KUM HWA Co., Ltd. and cumulated amount is 1,462 million Won for Force TEC Co., Ltd. 3,743 million Won for Orient Shipyard Co., Ltd. and 2 million Won for KUM HWA Co., Ltd.

(3) Summary financial information relating to investments in associates accounted for using the equity method of accounting is as follows (Unit: Korean Won in millions):

			Decemb	er 31, 2021		
	Assets	Liabilities	Operating revenue	Net income (loss)	Other comprehensive income(loss)	Total comprehensive income(loss)
W Service Networks Co., Ltd	6,208	2,504	17,019	840	_	840
Korea Credit Bureau Co., Ltd	113,859	21,284	127,751	20,486	_	20,486
Korea Finance Security Co., Ltd	34,957	14,286	57,462	249	_	249
Woori Growth Partnerships New	•	,	ŕ			
Technology Private Equity Fund	54,173	231	3,807	(2,228)	_	(2,228)
2016KIF-IMM Woori Bank Technology Venture Fund	63,983	837	23,010	21,119		21,119
	14,021,789	12,291,131	250,502		(32,072)	*
K BANK Co., Ltd		, ,		19,348	(32,072)	(12,724)
Asset Fund	1,383	2	1,075	543	_	543
Partner One Value Up I Private Equity	20.272		11.050	10.014		10.014
Fund	28,273		11,972	10,914	_	10,914
IBK KIP Seongjang Dideemdol 1st Private Investment Limited						
Partnership Crevisse Raim Impact 1st Startup Venture Specialist Private Equity	56,363	597	11,422	10,077	_	10,077
Fund	15,799	5		(332)		(222)
LOTTE CARD Co.,Ltd.(*)			1 400 967	184,919	25,612	(332)
Together-Korea Government Private Pool Private Securities Investment	15,980,312	13,460,156	1,499,867	164,919	23,012	210,531
Trust No. 3	10,073	1	41	37	_	37
Company 1st Private Equity Fund	20,610	3,941	11,347	694	_	694
Union Technology Finance Investment	20,010	2,5 .1	11,0 . ,	٠,٠		٠,٠
Association	41,996	290	13	(1,168)	_	(1,168)
Dicustody Co., Ltd	98		_	(2)	_	(2)
Japanese Hotel Real Estate Private				( )		( )
Equity Fund 2	16,104	14	911	1,196	(373)	823
Woori Seoul Beltway Private Special	-, -			,	( )	
Asset Fund No.1	30,206	1	536	500	_	500
Woori Multi-Return Securities	,					
Investment Trust 3 (Balanced						
Bond)	101,644	51,530	5	2	_	2
Woori Short-term Bond Securities						
Investment Trust(Bond) ClassC-F	1,209,228	158,524	89	79	_	79
WOORI TAERIM 1st Fund	4,047	172	_	2,770	_	2,770
Portone-Cape Fund No.1	2,447		1,050	947	_	947
KIWOOM WOORI Financial 1st	•		ŕ			
Investment Fund	10,818	111	1	(221)	_	(221)
Investment Fund	8,340			(60)	_	(60)
Darwin Green Packaging Private	0,5.0			(00)		(00)
Equity Fund	19,387			(213)		(213)
Woori FirstValue Private Real Estate		62 200				, ,
Fund No.2	69,672	63,309	_	(5,303)	_	(5,303)
Investment Trust	35,796	1	(34)	(35)	_	(35)
	* -		` '	` /		( - /

December	31.	2021
December	31.	2021

			Decemb.	01 01, 2021		
	Assets	Liabilities	Operating revenue	Net income (loss)	Other comprehensive income(loss)	Total comprehensive income(loss)
Woori Hanhwa Eureka Private Equity	_					
Fund	40,817	133	20,193	19,821		19,821
Aarden Woori Apparel 1st Private						
Equity Fund	21,075	89	_	(214)	_	(214)
Godo Kaisha Oceanos 1	66,087	45,367	3,141	267	_	267
Woori Zip 1	52,259	35,833	1,106	(26)	_	(26)
Woori Zip 2	74,033	50,951	1,536	(50)	_	(50)
Force TEC Co., Ltd	11,904	23,508	20,941	(9,188)	_	(9,188)
KUM HWA Co., Ltd	20	176	58	(10)		(10)
Jinmyung Plus Co.,Ltd	568	445	209	5	_	5
JC Assurance No.2 Private Equity						
Fund	118,397	_	_	(1,040)	_	(1,040)
Dream Company Growth no.1 PEF	28,533	44	_	1,500		1,500
HMS-Oriens 1st Fund	52,659	28	2,750	2,179		2,179
Woori G Senior Loan Private						
Placement Investment Trust No.1	406,634	25	14,553	13,669		13,669
Genesis Eco No.1 Private Equity						
Fund	38,369	4	308	(377)	_	(377)
Paratus Woori Material Component						
Equipment joint venture company	58,507	_	7	(693)	_	(693)
Midas No. 8 Private Equity Joint						
Venture Company	66,699	112	1	(113)	_	(113)
PCC-Woori LP Secondary Fund	31,585	_	5,720	4,162	_	4,162
Woori High Plus Short-term High						
Graded ESG Bond Sec Feeder Inv						
Trust 1	257,891	_	3,239	3,239	_	3,239
Woori-Q Corporate Restructuring						
Private Equity Fund	121,057	555	327	(1,547)		(1,547)
Woori-Shinyoung Growth-Cap Private						
Equity Fund I	82,087	314	83,143	81,550	_	81,550

<sup>(\*)</sup> The amount is after reflecting the fair value adjustment that occurred when acquiring the shares and the adjustments that occurred by difference of accounting policies with the Group

			Decembe	er 31, 2022		
	Assets	Liabilities	Operating revenue	Net income (loss)	Other comprehensive income(loss)	Total comprehensive income(loss)
W Service Networks Co., Ltd	7,052	2,825	19,697	1,215	_	1,215
Korea Credit Bureau Co., Ltd	155,165	100,065	144,907	13,809	_	13,809
Korea Finance Security Co., Ltd	28,792	12,964	47,043	(3,856)	_	(3,856)
Woori Growth Partnerships New						
Technology Private Equity Fund	47,394	208	2,978	2,185	_	2,185
2016KIF-IMM Woori Bank						
Technology Venture Fund	47,979	609	665	(7,839)	_	(7,839)
K BANK Co., Ltd.	16,694,289	14,896,426	491,880	91,059	(32,156)	58,903
Woori Bank-Company K Korea Movie						
Asset Fund <sup>(*1)</sup>	989	33	462	324	_	324
Partner One Value Up I Private Equity						
Fund	18,395	_	(9,431)	(9,831)	_	(9,831)
IBK KIP Seongjang Dideemdol 1st						
Private Investment Limited						
Partnership	51,804	385	8,092	7,288	_	7,288

December 31, 2022

			Determs			
	Assets	Liabilities	Operating revenue	Net income (loss)	Other comprehensive income(loss)	Total comprehensive income(loss)
Crevisse Raim Impact 1st Startup Venture Specialist Private Equity						
Fund	15,811	95	1	(383)	_	(383)
LOTTE CARD Co., Ltd.(*2)	19,983,059	17,179,093	1,925,577	268,096	43,162	311,258
Together-Korea Government Private Pool Private Securities Investment	- , ,	.,,	, ,	,	-, -	, , ,
Trust No. 3	10,246	1	218	170	_	170
Association	48,991	299	2,300	632	_	632
Dicustody Co., Ltd	95	_	_	(3)	_	(3)
Orient Shipyard Co., Ltd	10,832	27,225	_	(16,467)	_	(16,467)
BTS 2nd Private Equity Fund	15,012	608	1	(725)	_	(725)
STASSETS FUND III	4,660	313	37	(953)	_	(953)
Japanese Hotel Real Estate Private Equity Fund 2	14,387	13	1,050	968	(1,186)	(218)
Woori Seoul Beltway Private Special			,		(1,100)	
Asset Fund No.1	39,497	2	1,028	984	_	984
Investment Trust(Bond) ClassC-F Woori Safe Plus General Type Private	468,357	67,022	14,189	11,804	_	11,804
Investment Trust S-8(Bond)	115,781	4,508	1,899	1,763	_	1,763
WOORI TAERIM 1st Fund	4,047	185	1,0//	(13)		(13)
Portone-Cape Fund No.1	2,344	26		(129)		(129)
KIWOOM WOORI Financial 1st	ŕ		_		_	
Investment Fund  DeepDive WOORI 2021-1 Financial	10,597	111	1	(222)	_	(222)
Investment Fund	7,412	37	57	(103)	_	(103)
Equity Fund	19,332	_	2,215	1,904	_	1,904
DS Power Semicon Private Equity	14 220	4.4	1 105	027		027
Fund	14,230	44	1,185	937	<del>_</del>	937
Fund	77,039	2,038	3,020	1	_	1
Woori FirstValue Private Real Estate Fund No.2	67,005	62,357	3	(54)		(54)
WooriG Real Infrastructure Blind General Type Private Placement	07,003	02,337	3	(54)		(34)
Investment Trust	73,064	56	3,140	2,874	_	2,874
Trust(Balanced Bond)	4,667	12	389	(636)	_	(636)
Woori Together TDF 2025	8,513	16	1,287	(1,018)	_	(1,018)
Woori Together TDF 2030	8,615	_	1,352	(1,108)		(1,108)
WOORI Star50 feeder fund(H)	709		48	(480)	_	(480)
Aarden Woori Apparel 1st Private	707		10	(100)		(100)
Equity Fund	20,750	89	8	(325)		(325)
Woori Dyno 1st Private Equity Fund	10,212	43	200	(31)		(31)
* * *		14	30	(1,380)	_	. ,
Australia Green Energy 1st PEF	122,634				_	(1,380)
Godo Kaisha Oceanos 1	63,741	45,358	2,942	176	_	176
Woori Zip 1	48,309	34,346	2,085	(215)	_	(215)
Woori Zip 2	68,388	48,927	3,069	(198)	_	(198)
Force TEC Co., Ltd.	10,489	24,804	25,182	(2,664)	_	(2,664)
KUM HWA Co., Ltd.	4	159	155	(8)	_	(8)
Jinmyung Plus Co.,Ltd	696	649	177	(9)	_	(9)

			Decem	ber 31, 2022		
	Assets	Liabilities	Operating revenue	Net income (loss)	Other comprehensive income(loss)	Total comprehensive income(loss)
JC Assurance No.2 Private Equity						
Fund	122,015	3		(929)		(929)
Dream Company Growth no.1 PEF	28,351	50	1,695	1,506	_	1,506
HMS-Oriens 1st Fund	58,095	6	3,829	3,279	_	3,279
Woori G Senior Loan Private						
Placement Investment Trust No.1	378,145	23	18,584	17,496	_	17,496
Genesis Eco No.1 Private Equity						
Fund	38,700	5	48	(593)	_	(593)
Paratus Woori Material Component						
Equipment joint venture company	58,311	617	7	(812)		(812)
Midas No. 8 Private Equity Joint						
Venture Company	65,936	242	1,928	977	_	977
Orchestra Private Equity Fund IV	34,427	_	1,580	878		878
Synaptic Green No.1 PEF	37,017	_	4	(983)		(983)
IGEN2022No. 1 Private Equity						
Fund	32,362	122	3,166	2,616		2,616
PCC-Woori LP Secondary Fund	33,591	168	6,127	1,152		1,152
Woori-Q Corporate Restructuring						
Private Equity Fund	75,973	418	3,019	(4,696)	_	(4,696)
Woori-Shinyoung Growth-Cap Private						
Equity Fund I	123,824	312	41,780	40,544	_	40,544

<sup>(\*1)</sup> It was dissoluted for the year ended December 31,2021 and will be liquidated.

<sup>(4)</sup> The entities that the Group has not applied equity method of accounting although the Group's ownership interest is more than 20% as of December 31, 2021 and 2022 are as follows:

	December 31,	2021
Associate <sup>(*)</sup>	Number of shares owned	Ownership (%)
Orient Shipyard Co., Ltd.	464,812	21.4
Yuil PESC Co., Ltd.	8,642	24.0
CL Tech Co., Ltd.	13,759	38.6
S.WIN Co., Ltd.	20,301	20.0

<sup>(\*)</sup> Although the Group's ownership interest of the entity is more than 20%, the Group does not have significant influence over the entity since it is going through work-out process under receivership, thus it is excluded from the investment in joint ventures and associates.

	December 31, 2022				
Associate(*)	Number of shares owned	Ownership (%)			
CL Tech Co., Ltd.	10,191	28.6			

<sup>(\*)</sup> Although the Group's ownership interest of the entity is more than 20%, the Group does not have significant influence over the entity since it is going through work-out process under receivership, thus it is excluded from the investment in joint ventures and associates.

<sup>(\*2)</sup> The amount is after reflecting the fair value adjustment that occurred when acquiring the shares and the adjustments that occurred by difference of accounting policies with the Group.

(5) As of December 31, 2020, 2021 and 2022, the reconciliations from the net assets of the associates to the carrying amount of the shares of the investment in joint ventures and associates are as follows (Unit: Korean Won in millions except for ownership):

	December 31, 2020						
	Total net asset	Ownership (%)		Basis	Impairment	Intercompany transaction	Book value
W Service Networks Co., Ltd	3,857	4.9	191				191
Korea Credit Bureau Co., Ltd	79,478	9.9	7,876	246		3	8,125
Korea Finance Security Co., Ltd	20,442		3,066	_			3,066
Woori Growth Partnerships New Technology	-,		- ,				- ,
Private Equity Fund	65,138	23.1	15,034	_	_	(2)	15,032
2016KIF-IMM Woori Bank Technology							
Venture Fund	62,911		12,582	_		656	13,238
K BANK Co., Ltd.(*1)(*2)	509,978		133,614	44,117	(3,634)		174,097
Smart Private Equity Fund No.2 <sup>(*2)</sup>	13,616	20.0	2,723	_	(1,242)		1,481
Woori Bank-Company K Korea Movie Asset							
Fund	11,154		2,788	_			2,788
Well to Sea No.3 Private Equity Fund <sup>(*3)</sup>	18,899	50.0	_	_			_
Partner One Value Up Ist Private Equity							
Fund	42,205	23.3	9,817	_	_	(1)	9,816
IBK KIP Seongjang Dideemdol 1st Private							
Investment Limited Partnership	45,888	20.0	9,178	_	_	578	9,756
Crevisse Raim Impact 1st Startup Venture							
Specialist Private Equity Fund	15,747	25.0	3,937	_		192	4,129
Woori-Shinyoung Growth-Cap Private Equity							
Fund I	109,627		38,342	_	_	_	38,342
LOTTE CARD Co., Ltd(*1)	2,114,159	20.0	422,832	_	_	_	422,832
Woori-Q Corporate Restructuring Private							
Equity Fund	57,922		22,220	_	_	684	22,904
PCC-Woori LP Secondary Fund	20,923		8,126	_	_	2	8,128
Force TEC	1,526	25.8	393	_	_		393
Together-Korea Government Private Pool	40.004	1000	10.001				40.000
Private Securities Investment Trust No.3	10,024	100.0	10,024		_	(1)	10,023
Genesis Environmental Energy Company 1st	1 ( 0 7 1	240	2.050				2.050
Private Equity Fund	16,074	24.8	3,979	_			3,979
Union Technology Finance Investment	15 100	20.7	4.405				4.405
Association	15,100		4,485	_	_		4,485
Woori Hanhwa Eureka Private Equity Fund	50,147		403	_			403
Godo Kaisha Oceanos 1	21,321	47.8	10,193	_	_	_	10,193
Japanese Hotel Real Estate Private Equity	16 270	10.0	2 224				2 224
Fund No.2	16,278	19.9	3,234	_			3,234
Woori High plus G.B. Securities Feeder	27.970	21.0	6.076				6.076
Fund1(G.B.)	27,870	21.8	6,076		_	_	0,070
	240.200	21.7	52.045				52.045
Investment Trust No.1	240,399		52,045		_	_	52,045
Woori G Clean Energy No.1	3,495	29.3	1,024	_	_		1,024
Woori Goseong Power EBL Private							
Special Asset Fund	90,707	16.7	15,118	_	_	_	15,118
Woori Seoul Beltway Private Special							
Asset Fund No.1	22,451	25.0	5,613	_	_	_	5,613
WOORI TAERIM 1st Fund	1,106	25.6	283	_	_	_	283
Portone-Cape Fund No.1	4,800	20.0	960	_	_	_	960
KIWOOM WOORI Financial 1st							
Investment Fund	10,929	9.1	994	_	_	_	994

11	oci	am	ber	- 41	- 21	1711

	Total net asset	Ownership (%)		Basis	Impairment	Intercompany transaction	Book value
Woori FirstValue Private Real Estate							
Fund No.2	17,753	12.0	2,130	_	_	_	2,130
Woori Star50 Master Fund ClassC-F	765	24.5	184	_			184
JC Assurance No.2 Private Equity							
Fund	98,418	29.3	29,050	_			29,050
Dream Company Growth no.1 PEF	28,684	27.8	7,705	_	_	_	7,705
HMS-Oriens 1st Fund	52,632	22.8	12,000	_			12,000
Woori High Plus Short-term High Graded							
ESG Bond Sec Feeder Inv Trust 1	402,015	23.3	93,474	_	_	_	93,474

<sup>(\*1)</sup> The net asset equity amount is after the debt-for-equity swap, non-controlling etc.

<sup>(\*3)</sup> The estimated recoverable amount of 15,687 million Won at the time of liquidation was classified as receivable.

December	

	Total net asset	Ownership (%)		Basis	Impairment	Intercompany transaction	Book value
W Service Networks Co., Ltd	3,704	4.9	183	_	_	_	183
Korea Credit Bureau Co., Ltd	92,575	9.9	9,177	246	_	_	9,423
Korea Finance Security Co., Ltd	20,671	15.0	3,101	_		_	3,101
Woori Growth Partnerships New Technology							
Private Equity Fund	53,942	23.1	12,448	_		_	12,448
2016KIF-IMM Woori Bank Technology							
Venture Fund	63,146	20.0	12,630	_			12,630
K BANK Co., Ltd. <sup>(*)</sup>	1,730,307	12.6	217,599	21,894	_		239,493
Woori Bank-Company K Korea Movie Asset							
Fund	1,381	25.0	345	_	_		345
Partner One Value Up Ist Private Equity							
Fund	28,273	23.3	6,576	_	_		6,576
IBK KIP Seongjang Dideemdol 1st Private							
Investment Limited Partnership	55,767	20.0	11,153	_	_		11,153
Crevisse Raim Impact 1st Startup Venture							
Specialist Private Equity Fund	15,794	25.0	3,949	_	_	305	4,254
LOTTE CARD Co., Ltd <sup>(*1)</sup>	2,291,474	20.0	458,295	_	_	_	458,295
Together-Korea Government Private Pool							
Private Securities Investment Trust No.3	10,071	100.0	10,070				10,070
Genesis Environmental Energy Company 1st							
Private Equity Fund	16,669	24.8	4,126				4,126
Union Technology Finance Investment							
Association	41,706	29.7	12,388	_	_	_	12,388
Dicustody Co., Ltd	98	1.0	1				1
Japanese Hotel Real Estate Private Equity							
Fund No.2	16,090	19.9	3,196				3,196
Woori Seoul Beltway Private Special Asset							
Fund No.1	30,205	25.0	7,551	_		_	7,551
Woori Multi Return Private Securities							
Investment Trust 3(Balanced Bond)	50,114	20.0	10,023	_	_		10,023
Woori Short-term Bond Securities Investment							
Trust (Bond) ClassC-F	1,050,704	14.5	151,822	_	_		151,822

<sup>(\*2)</sup> As a result of conducting an impairment test on the investment stocks of the related companies, the recoverable value was less than the carrying amount and thus the impairment loss was recognized.

December 31, 2021

WOORT TAERIM 1st Fund         Same of the production				De	cember 31,	2021		
Portone-Cape Fund No.1				portion of		Impairment		
Portone-Cape Fund No.1	WOORI TAERIM 1st Fund	3,875	25.6	991	_	_		991
Fund	Portone-Cape Fund No.1	2,447	20.0	489	_	_	_	489
Investment Fund		10,707	9.1	973	_	_	_	973
Darwin Green Packaging Private Equity Fund	*	8 340	11 9	993				993
Fund		0,5 10	11.7	,,,,				,,,,
Woori FirstValue Private Real Estate Fund No.2         6,363         12.0         763         —         —         763           WooriG Real Infrastructure Blind General Type Private Placement Investment Trust         35,795         0.3         100         —         —         100           Woori Hanhwa Eureka Private Equity Fund         40,684         0.8         327         —         —         327           Aarden Woori Apparel Ist Private Equity Fund         20,986         0.5         99         —         —         —         99           Godo Kaisha Oceanos 1         20,720         47.8         9,905         —         —         —         9905           Woori Zip 1         16,426         63.9         10,496         —         —         —         10,496           Woori Zip 2         23,082         63.8         14,732         —         —         10,496           Woori Zip 2         23,082         63.8         14,732         —         —         10,496           Woori Zip 1         16,426         63.9         10,496         —         —         28,43         —           KUM HWA Co., Ltd.         (11,604)         24.5         (2,843)         —         —         28,43         —		19.387	20.4	3.957	_	_		3.957
No.2		,		-,				-,
WooriG Real Infrastructure Blind General Type Private Placement Investment Trust   35,795   0.3   100   —   —   —   100   327   32		6,363	12.0	763	_	_	_	763
Type Private Placement Investment Trust         35,795         0.3         100         —         —         —         100           Woori Hanhwa Eureka Private Equity Fund         40,684         0.8         327         —         —         327           Aarden Woori Apparel Ist Private Equity Fund         20,986         0.5         99         —         —         —         99           Godo Kaisha Oceanos I         20,720         47.8         9,905         —         —         —         99.05           Woori Zip I         16,426         63.9         10,496         —         —         —         10,496           Woori Zip 2         23,082         63.8         14,732         —         —         —         10,496           Woori Zip 2         23,082         63.8         14,732         —         —         —         14,732           Force TEC         (11,604)         24.5         (2,843)         —         —         2,843         —           KUM HWA Co., Ltd.         (156)         20.1         (31)         —         31         —           Jic Assurance No.2 Private Equity Fund         118,397         24.4         29,349         —         (11,621)         —         17,72		-,-						
Woori Hanhwa Eureka Private Equity Fund         40,684         0.8         327         —         —         —         327           Aarden Woori Apparel 1st Private Equity Fund         20,986         0.5         99         —         —         —         99           Godo Kaisha Oceanos 1         20,720         47.8         9,905         —         —         9,905           Woori Zip 1         16,426         63.9         10,496         —         —         10,496           Woori Zip 2         23,082         63.8         14,732         —         —         14,732           Force TEC         (11,604)         24.5         (2,843)         —         —         2,843         —           KUM HWA Co., Ltd.         (156)         20.1         (31)         —         —         14,732           Jimyung Plus Co., Ltd.         123         21.3         25         —         —         (25)         —           Jimyung Plus Co., Ltd.         123         21.3         29.4         —         (11,621)         —         17,728           Dream Company Growth no.1 PEF         28,489         27.8         7,914         —         —         7,914           HMS-Oriens 1st Fund         52,6		35,795	0.3	100	_	_		100
Aarden Woori Apparel 1st Private Equity Fund   20,986   0.5   99   —   —   —   99	• •	-		327	_	_		327
Fund		,						
Woori Zip 1         16,426         63.9         10,496         —         —         —         10,496           Woori Zip 2         23,082         63.8         14,732         —         —         —         14,732           Force TEC         (11,604)         24.5         (2,843)         —         —         2,843         —           KUM HWA Co., Ltd.         (156)         20.1         (31)         —         —         31         —           Jimyung Plus Co., Ltd.         123         21.3         25         —         —         (25)         —           JC Assurance No.2 Private Equity Fund         118,397         24.4         29,349         —         (11,621)         —         17,728           Dream Company Growth no.1 PEF         28,489         27.8         7,914         —         —         —         7,914           HMS-Oriens 1st Fund         52,631         22.8         12,007         —         —         12,007           Woori G Senior Loan General Type         Private Investment Trust No.1         406,609         21.7         88,029         —         —         —         88,029           Genesis Eco No.1 Private Equity Fund         38,365         29.0         11,120 <td< td=""><td></td><td>20,986</td><td>0.5</td><td>99</td><td>_</td><td>_</td><td></td><td>99</td></td<>		20,986	0.5	99	_	_		99
Woori Zip 2         23,082         63.8         14,732         —         —         —         14,732           Force TEC         (11,604)         24.5         (2,843)         —         —         2,843         —           KUM HWA Co., Ltd.         (156)         20.1         (31)         —         —         31         —           Jimmyung Plus Co., Ltd.         123         21.3         25         —         —         (25)         —           JC Assurance No.2 Private Equity Fund         118,397         24.4         29,349         —         (11,621)         —         17,728           Dream Company Growth no.1 PEF         28,489         27.8         7,914         —         —         —         7,914           HMS-Oriens 1st Fund         52,631         22.8         12,007         —         —         —         12,007           WooriG Senior Loan General Type         Private Investment Trust No.1         406,609         21.7         88,029         —         —         —         88,029           Genesis Eco No.1 Private Equity Fund         38,365         29.0         11,120         —         —         11,120           Paratus Woori Material Component         Equity Fund         58,507	Godo Kaisha Oceanos 1	20,720	47.8	9,905	_	_		9,905
Force TEC         (11,604)         24.5         (2,843)         —         —         2,843         —           KUM HWA Co., Ltd.         (156)         20.1         (31)         —         —         31         —           Jinmyung Plus Co., Ltd.         123         21.3         25         —         —         (25)         —           JC Assurance No.2 Private Equity Fund         118,397         24.4         29,349         —         (11,621)         —         17,728           Dream Company Growth no.1 PEF         28,489         27.8         7,914         —         —         —         7,914           HMS-Oriens 1st Fund         52,631         22.8         12,007         —         —         —         12,007           WooriG Senior Loan General Type         —         Private Investment Trust No.1         406,609         21.7         88,029         —         —         —         88,029           Genesis Eco No.1 Private Equity Fund         38,365         29.0         11,120         —         —         11,493           Midas No. 8 Private Equity Joint Venture         Equipment joint venture company         58,507         29.9         17,493         —         —         —         18,968           P	Woori Zip 1	16,426	63.9	10,496	_	_	_	10,496
KUM HWA Co., Ltd.       (156)       20.1       (31)       —       —       31       —         Jinmyung Plus Co., Ltd.       123       21.3       25       —       —       (25)       —         JC Assurance No.2 Private Equity Fund       118,397       24.4       29,349       —       (11,621)       —       17,728         Dream Company Growth no.1 PEF       28,489       27.8       7,914       —       —       7,914         HMS-Oriens 1st Fund       52,631       22.8       12,007       —       —       —       7,914         HMS-Oriens 1st Fund       52,631       22.8       12,007       —       —       —       7,914         HMS-Oriens 1st Fund       52,631       22.8       12,007       —       —       —       12,007         WooriG Senior Loan General Type       —       —       —       —       12,007       —       —       —       12,007         Woori G Senior Loan General Type       —       —       —       —       88,029       —       —       —       88,029       —       —       —       88,029       —       —       —       11,120       —       —       —       11,120       —       —	Woori Zip 2	23,082	63.8	14,732	_	_		14,732
Jinmyung Plus Co.,Ltd.	Force TEC	(11,604	) 24.5	(2,843)	_	_	2,843	_
JC Assurance No.2 Private Equity Fund       118,397       24.4       29,349       — (11,621)       — 17,728         Dream Company Growth no.1 PEF       28,489       27.8       7,914       — — — 7,914         HMS-Oriens 1st Fund       52,631       22.8       12,007       — — — 12,007         WooriG Senior Loan General Type       — — — 88,029       — — — 88,029         Genesis Eco No.1 Private Equity Fund       38,365       29.0       11,120       — — — 11,120         Paratus Woori Material Component       Equipment joint venture company       58,507       29.9       17,493       — — — 17,493         Midas No. 8 Private Equity Joint Venture       Company       66,587       28.5       18,968       — — — 18,968         PCC-Woori LP Secondary Fund       31,585       38.8       12,350       — — — 12,350         Woori High Plus Short-term High Graded       ESG Bond Sec Feeder Inv Trust 1       257,891       27.5       73,787       — — — 73,787         Woori-Q Corporate Restructuring Private       Equity Fund       120,502       38.1       46,155       — — — 46,155         Woori-Shinyoung Growth-Cap Private       — — — — 46,155	KUM HWA Co., Ltd	(156	20.1	(31)	_	_	31	_
Dream Company Growth no.1 PEF       28,489       27.8       7,914       —       —       7,914         HMS-Oriens 1st Fund       52,631       22.8       12,007       —       —       12,007         WooriG Senior Loan General Type       —       Private Investment Trust No.1       406,609       21.7       88,029       —       —       88,029         Genesis Eco No.1 Private Equity Fund       38,365       29.0       11,120       —       —       11,120         Paratus Woori Material Component       Equipment joint venture company       58,507       29.9       17,493       —       —       17,493         Midas No. 8 Private Equity Joint Venture       Company       66,587       28.5       18,968       —       —       18,968         PCC-Woori LP Secondary Fund       31,585       38.8       12,350       —       —       12,350         Woori High Plus Short-term High Graded       ESG Bond Sec Feeder Inv Trust 1       257,891       27.5       73,787       —       —       73,787         Woori-Q Corporate Restructuring Private       Equity Fund       120,502       38.1       46,155       —       —       46,155	Jinmyung Plus Co.,Ltd	123	21.3	25	_	_	(25)	_
HMS-Oriens 1st Fund       52,631       22.8       12,007       —       —       12,007         WooriG Senior Loan General Type       Private Investment Trust No.1       406,609       21.7       88,029       —       —       88,029         Genesis Eco No.1 Private Equity Fund       38,365       29.0       11,120       —       —       11,120         Paratus Woori Material Component       Equipment joint venture company       58,507       29.9       17,493       —       —       17,493         Midas No. 8 Private Equity Joint Venture       Company       66,587       28.5       18,968       —       —       18,968         PCC-Woori LP Secondary Fund       31,585       38.8       12,350       —       —       12,350         Woori High Plus Short-term High Graded       ESG Bond Sec Feeder Inv Trust 1       257,891       27.5       73,787       —       —       73,787         Woori-Q Corporate Restructuring Private       Equity Fund       120,502       38.1       46,155       —       —       46,155         Woori-Shinyoung Growth-Cap Private       —       —       46,155       —       —       —	JC Assurance No.2 Private Equity Fund	118,397	24.4	29,349	_	(11,621)		17,728
WooriG Senior Loan General Type       Private Investment Trust No.1       406,609       21.7       88,029       —       —       88,029         Genesis Eco No.1 Private Equity Fund       38,365       29.0       11,120       —       —       11,120         Paratus Woori Material Component       Equipment joint venture company       58,507       29.9       17,493       —       —       17,493         Midas No. 8 Private Equity Joint Venture       Company       66,587       28.5       18,968       —       —       —       18,968         PCC-Woori LP Secondary Fund       31,585       38.8       12,350       —       —       12,350         Woori-High Plus Short-term High Graded       ESG Bond Sec Feeder Inv Trust 1       257,891       27.5       73,787       —       —       73,787         Woori-Q Corporate Restructuring Private       Equity Fund       120,502       38.1       46,155       —       —       46,155         Woori-Shinyoung Growth-Cap Private       —       —       46,155       —       —       —       46,155	Dream Company Growth no.1 PEF	28,489	27.8	7,914	_	_		7,914
Private Investment Trust No.1       406,609       21.7       88,029       —       —       88,029         Genesis Eco No.1 Private Equity Fund       38,365       29.0       11,120       —       —       11,120         Paratus Woori Material Component       Equipment joint venture company       58,507       29.9       17,493       —       —       17,493         Midas No. 8 Private Equity Joint Venture       Company       66,587       28.5       18,968       —       —       18,968         PCC-Woori LP Secondary Fund       31,585       38.8       12,350       —       —       12,350         Woori High Plus Short-term High Graded       ESG Bond Sec Feeder Inv Trust 1       257,891       27.5       73,787       —       —       73,787         Woori-Q Corporate Restructuring Private       Equity Fund       120,502       38.1       46,155       —       —       46,155         Woori-Shinyoung Growth-Cap Private       —       46,155       —       —       46,155	HMS-Oriens 1st Fund	52,631	22.8	12,007	_	_	_	12,007
Genesis Eco No.1 Private Equity Fund	WooriG Senior Loan General Type							
Paratus Woori Material Component         Equipment joint venture company	Private Investment Trust No.1	406,609	21.7	88,029	_	_	_	88,029
Paratus Woori Material Component         Equipment joint venture company	Genesis Eco No.1 Private Equity Fund	38,365	29.0	11,120	_	_	_	11,120
Equipment joint venture company       58,507       29.9       17,493       —       —       17,493         Midas No. 8 Private Equity Joint Venture       —       66,587       28.5       18,968       —       —       18,968         PCC-Woori LP Secondary Fund       31,585       38.8       12,350       —       —       12,350         Woori High Plus Short-term High Graded       ESG Bond Sec Feeder Inv Trust 1       257,891       27.5       73,787       —       —       73,787         Woori-Q Corporate Restructuring Private       Equity Fund       120,502       38.1       46,155       —       —       46,155         Woori-Shinyoung Growth-Cap Private       —       46,155       —       —       46,155	* *							
Midas No. 8 Private Equity Joint Venture         Company	-	58,507	29.9	17,493		_	_	17,493
Company       66,587       28.5       18,968       —       —       18,968         PCC-Woori LP Secondary Fund       31,585       38.8       12,350       —       —       12,350         Woori High Plus Short-term High Graded       ESG Bond Sec Feeder Inv Trust 1       257,891       27.5       73,787       —       —       73,787         Woori-Q Corporate Restructuring Private       Equity Fund       120,502       38.1       46,155       —       —       46,155         Woori-Shinyoung Growth-Cap Private       —       —       46,155		,		,,				.,
PCC-Woori LP Secondary Fund	- ·	66 587	28.5	18 968		_		18 968
Woori High Plus Short-term High Graded  ESG Bond Sec Feeder Inv Trust 1 257,891 27.5 73,787 — — 73,787  Woori-Q Corporate Restructuring Private  Equity Fund		,						
ESG Bond Sec Feeder Inv Trust 1 257,891	· · · · · · · · · · · · · · · · · · ·	31,303	30.0	12,550				12,330
Woori-Q Corporate Restructuring Private Equity Fund		257 901	27.5	72 707				72 707
Equity Fund		237,891	21.3	13,101	_	_	_	13,161
Woori-Shinyoung Growth-Cap Private		100 500	20.1	46 155				46 155
· ·		120,502	38.1	46,155	_	_	_	46,155
Equity Fund I	• •							
	Equity Fund I	81,773	35.0	28,713	_	_	_	28,713

<sup>(\*)</sup> The net asset equity amount is after the debt-for-equity swap, non-controlling etc.

December 31, 2022 Ownership Intercompany transaction Total net Ownership portion of Basis Book net assets difference Impairment value asset (%) 4,227 4.9 209 208 (1) 55,100 9.9 246 5,709 5,462 1 Korea Finance Security Co., Ltd. . . . . . . . . . . 15,828 15.0 2,374 2,374 Woori Growth Partnerships New Technology Private Equity Fund ..... 47,185 23.1 10,889 10,889 2016KIF-IMM Woori Bank Technology Venture Fund ..... 47,370 20.0 9,474 9,474

December 31, 2022

			0 11				
	Total net asset	Ownership (%)	Ownership portion of net assets	Basis difference	Impairment	Intercompany transaction	Book value
K BANK Co., Ltd.(*)	1,796,269	12.6	225,894	21,894	_	1	247,789
Woori Bank-Company K Korea Movie Asset	057	25.0	220				220
Fund	957	25.0	239		_	_	239
Partner One Value Up Ist Private Equity Fund	18,395	23.3	4,278				4,278
IBK KIP Seongjang Dideemdol 1st Private	10,393	23.3	4,270		_	_	4,276
Investment Limited Partnership	51,419	20.0	10,284	_	_	1	10,285
Crevisse Raim Impact 1st Startup Venture	01,.17	20.0	10,20.			-	10,200
Specialist Private Equity Fund	15,716	25.0	3,929	_	_	426	4,355
LOTTE CARD Co., Ltd.(*)	2,570,656	20.0	514,131	_	_	_	514,131
Together-Korea Government Private Pool							
Private Securities Investment Trust No.3	10,245	100.0	10,244	_	_	(1)	10,243
Union Technology Finance Investment							
Association	48,692	29.7	14,463	_	_	(1)	14,462
Dicustody Co., Ltd	95	1.0	1	_	_	_	1
Orient Shipyard Co., Ltd	(16,393)		(3,721)	_	_	3,721	
BTS 2nd Private Equity Fund	14,405	20.0	2,881	_	_	_	2,881
STASSETS FUND III	4,347	28.3	1,230	_	_	_	1,230
Japanese Hotel Real Estate Private Equity	14274	10.0	2.055				2.055
Fund No.2	14,374	19.9	2,855		_		2,855
Woori Seoul Beltway Private Special Asset Fund No.1	39,495	25.0	9,874				9,874
Woori Short-term Bond Securities Investment	39,493	23.0	9,074		_	_	9,074
Trust (Bond) ClassC-F	401,335	27.9	112,025			_	112,025
Woori Safe Plus General Type Private	101,555	27.5	112,023				112,023
Investment Trust S-8(Bond)	111,273	9.2	10,182	_	_	_	10,182
WOORI TAERIM 1st Fund	3,862		988	_	_	_	988
Portone-Cape Fund No.1	2,318	20.0	464	_	_	_	464
KIWOOM WOORI Financial 1st Investment							
Fund	10,486	9.1	953	_	_	_	953
DeepDive WOORI 2021-1 Financial							
Investment Fund	7,375	11.9	878	_	_	_	878
Darwin Green Packaging Private Equity							
Fund	19,332	20.4	3,945	_	_		3,945
DS Power Semicon Private Equity Fund	14,186	21.0	2,976		_		2,976
Koreawide partners 2nd Private Equity	75.001	267	20,000				20,000
Fund	75,001	26.7	20,000		_		20,000
Woori FirstValue Private Real Estate Fund No.2	4,648	12.0	558				558
Woori G Real Infrastructure Blind General	4,040	12.0	336		_	_	336
Type Private Placement Investment Trust	73,008	0.1	102			_	102
Woori BIG2 Plus Securities Investment	73,000	0.1	102				102
Trust(Balanced Bond)	4,655	23.1	1,074	_	_	_	1,074
Woori Together TDF 2025	8,497	23.6	1,990		_		1,990
Woori Together TDF 2030	8,615	23.8	2,033	_	_	_	2,033
WOORI Star50 feeder fund(H)	709	17.9	126	_	_	_	126
Aarden Woori Apparel 1st Private Equity							
Fund	20,661	0.5	97	_	_	_	97
Woori Dyno 1st Private Equity Fund	10,169	19.6	1,994		_		1,994
Australia Green Energy 1st PEF	122,620		4,858	_	_		4,858
Godo Kaisha Oceanos 1	18,383	47.8	8,788	_	_	_	8,788
Woori Zip 1	13,963	64.0	8,690		_	_	8,690
Woori Zip 2	19,461	64.0	12,180	_	_	_	12,180

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Decem	hor	- 41	71177

	Total net asset	Ownership (%)	Ownership portion of net assets	Basis difference	Impairment	Intercompany transaction	Book value
Force TEC	(14,315)	24.5	(3,513)	_	_	3,513	_
KUM HWA Co., Ltd	(155)	20.1	(31)	_	_	31	_
Jinmyung Plus Co.,Ltd	47	21.3	10	_	_		10
JC Assurance No.2 Private Equity Fund	122,012	23.5	17,728	_	(17,728)		_
Dream Company Growth no.1 PEF	28,301	27.8	7,861	_	_		7,861
HMS-Oriens 1st Fund	58,089	22.8	13,252	_		_	13,252
Woori G Senior Loan General Type Private							
Investment Trust No.1	378,122	21.7	81,861	_		_	81,861
Genesis Eco No.1 Private Equity Fund	38,695	29.0	11,216	_		_	11,216
Paratus Woori Material Component							
Equipment joint venture company	57,694	29.9	17,250	_	_	_	17,250
Midas No. 8 Private Equity Joint Venture							
Company	65,694	28.5	18,713	_		_	18,713
Orchestra Private Equity Fund IV	34,427	28.2	9,698	_	_		9,698
Synaptic Green No.1 PEF	37,017	21.1	7,793	_	_	_	7,793
IGEN2022No. 1 Private Equity Fund	32,240	24.8	8,010	_	_	_	8,010
PCC-Woori LP Secondary Fund	33,423	38.8	12,984	_			12,984
Woori-Q Corporate Restructuring Private	,		,				*
Equity Fund	75,555	35.6	27,536	_	_	_	27,536
Woori-Shinyoung Growth-Cap Private	,	22.0	2.,550				,550
Equity Fund I	123,512	35.0	43,274	_	_	_	43,274

<sup>(\*)</sup> The net asset equity amount is after the debt-for-equity swap, non-controlling etc.

# 14. INVESTMENT PROPERTIES

(1) Details of investment properties are as follows (Unit: Korean Won in millions):

	December 31, 2021	December 31, 2022
Acquisition cost	415,163	418,775
Accumulated depreciation	(25,582)	(30,982)
Accumulated impairment losses	(86)	(86)
Net carrying value	389,495	387,707

(2) Changes in investment properties are as follows (Unit: Korean Won in millions):

	For the years ended December 31		
	2020	2021	2022
Beginning balance	280,239	387,464	389,495
Acquisition	76,588	_	_
Disposal	(353)	_	(1,206)
Depreciation	(2,689)	(2,809)	(3,925)
Transfer	30,431	6,095	7,153
Foreign currencies translation adjustments	267	(1,255)	(3,810)
Business combination	10,557	_	_
Others	(7,576)		
Ending balance	387,464	389,495	387,707

- (3) Fair value of investment properties amounted to 665,710 million Won and 647,072 million Won and as of December 31, 2021 and 2022, respectively. The fair value of investment properties has been assessed on the basis of recent similar real estate market price and officially assessed land price in the area of the investment properties, is classified as level 3 on the fair value hierarchy.
- (4) Rental fee earned from investment properties is amounting to 15,056 million Won and 22,798 million Won for the years ended December 31, 2021 and 2022, respectively. Operating expenses directly related to the investment properties where rental fee was earned is amounting to 2,941 million Won and 4,093 million Won.
- (5) The lease payments expected to be received in the future under lease contracts relating to investment properties as of December 31, 2021 and 2022 are as follows (Unit: Korean Won in millions):

	December 31, 2021	December 31, 2022
Lease payments:		
Within a year	13,769	12,368
More than 1 year and within 2 years	10,770	8,481
More than 2 years and within 3 years	7,743	5,320
More than 3 years and within 4 years	5,009	3,201
More than 4 years and within 5 years	2,953	2,634
More than 5 years	2,603	2,568
Total	42,847	34,572

## 15. PREMISES AND EQUIPMENT

(1) Details of premises and equipment as of December 31, 2021 and 2022 are as follows (Unit: Korean Won in millions):

	December 31, 2021						
	Land	Building	Equipment and vehicles	Leasehold improvement	Construction in progress	Structures	Total
Premises and equipment							
(owned)	1,719,325	756,964	258,361	51,354	3,171	1	2,789,176
Right-of-use asset	_	367,480	18,064		_	_	385,544
Carrying value	1,719,325	1,124,444	276,425	51,354	3,171	1	3,174,720
	December 31, 2022						
			υ	ccciiibci 31, 20	22		
	Land	Building	Equipment	Leasehold improvement	Construction	Structures	Total
Premises and equipment	Land	Building	Equipment	Leasehold	Construction		Total
Premises and equipment (owned)		Building 730,676	Equipment	Leasehold	Construction		Total 2,777,847
1 1	1,695,357	730,676	Equipment and vehicles	Leasehold improvement	Construction in progress		

(2) Details of premises and equipment (owned) as of December 31, 2021 and 2022 are as follows (Unit: Korean Won in millions):

		December 31, 2021					
	Land	Building	Equipment and vehicles	Leasehold improvement	Construction in progress	Structures	Total
Acquisition cost	1,719,985	1,076,091	1,156,479	475,195	3,171	20	4,430,941
Accumulated depreciation Accumulated impairment			(898,118)	(423,841)	_	(19)	(1,641,105)
losses	(660)						(660)
Net carrying value	1,719,325	756,964	258,361	51,354	3,171	1	2,789,176
			D	ecember 31, 20	22		
	Land	Building	Equipment and vehicles	Leasehold improvement	Construction in progress	Structures	Total
Acquisition cost	1,696,017	1,078,385	1,179,928	470,513	32,184	20	4,457,047
Accumulated depreciation	_	(347,709)	(918,650)	(412,161)	_	(20)	(1,678,540)
Accumulated impairment losses	(660)	_	_	_	_	_	(660)
Net carrying value	1,695,357	730,676	261,278	58,352	32,184		2,777,847

(3) Details of changes in premises and equipment (owned) are as follows (Unit: Korean Won in millions):

			For the yea	ar ended Decem	nber 31, 2020		
	Land	Building	Equipment and vehicles	Leasehold improvement	Construction in progress	Structures	Total
Beginning balance	1,761,159	802,299	278,016	54,839	1,287	2	2,897,602
Acquisitions	3,787	26,972	84,828	26,124	7,751	_	149,462
Disposals	(8,326)	(1,719)	(605)	(688)	_	_	(11,338)
Depreciation	_	(34,572)	(94,388)	(30,579)		_	(159,539)
Transfer	(30,847)	(2,048)	118	_	(118)	_	(32,895)
Foreign currencies translation							
adjustments	(836)	(882)	(1,849)	(830)	(82)	_	(4,479)
Business combination	1,108	81	2,150	437		_	3,776
Others		(3,091)	(45)	782	(592)		(2,946)
Ending balance	1,726,045	787,040	268,225	50,085	8,246	2	2,839,643
			For the yea	ar ended Decem	nber 31, 2021		
	Land	Building	Equipment and vehicles	Leasehold improvement	Construction in progress	Structures	Total
Beginning balance	1,726,045	787,040	268,225	50,085	8,246	2	2,839,643
Acquisitions	_	15,750	68,069	23,347	11,637	_	118,803
Disposals	_	(1,994)	(1,663)	(979)	_	_	(4,636)
Depreciation	_	(33,523)	(93,921)	(22,293)	_	(1)	(149,738)
Classification of assets held for							
sale	(7,157)	(5,695)		_	_	_	(12,852)
Transfer	(3,649)	(2,446)	15,399	_	(15,399)	_	(6,095)
Foreign currencies translation							
adjustments	991	712	2,868	1,580	153	—	6,304
Others	3,095	(2,880)	(616)	(386)	(1,466)		(2,253)
Ending balance	1,719,325	756,964	258,361	51,354	3,171	1	2,789,176

For the	vear ended	December	31, 2022
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349,494

15,589

365,083

			Equipment and	Leasehold	Construction		
	Land	Building	vehicles	improvement	in progress	Structures	Total
Beginning balance	1,719,325	756,964	258,361	51,354	3,171	1	2,789,176
Acquisitions	24	14,524	98,620	28,178	31,810	_	173,156
Disposals	(20,024)	(788)	(1,003)	(656)		_	(22,471)
Depreciation	_	(32,290)	(97,600)	(21,185)		(1)	(151,076)
Classification of assets held for							
sale	(6,405)	(6,704)	_			_	(13,109)
Transfer	(3,040)	(4,113)	_			_	(7,153)
Foreign currencies translation							
adjustments	(855)	(428)	392	549	225	_	(117)
Business combination	5,917	3,523	2,586		_	_	12,026
Others	415	(12)	(78)	112	(3,022)		(2,585)
Ending balance	1,695,357	730,676	261,278	58,352	32,184		2,777,847

# (4) Details of right-of-use assets as of December 31, 2021 and 2022 are as follows (Unit: Korean Won in millions):

	D	December 31, 2021			
	Building	Equipment and vehicles	Total		
Acquisition cost	650,906	30,559	681,465		
Accumulated depreciation	(283,426)	(12,495)	(295,921)		
Net carrying value	367,480	18,064	385,544		
	D	ecember 31, 202	22		
	Building	Equipment and vehicles	Total		
Acquisition cost	643,484	32,700	676,184		
Accumulated depreciation	(293,990)	(17,111)	(311,101)		

# (5) Details of changes in right-of-use assets for the years ended December 31, 2021 and 2022 are as follows (Unit: Korean Won in millions):

Net carrying value .....

	For the year ended December 31, 2021			
	Building	Equipment and vehicles	Total	
Beginning balance	435,132	12,423	447,555	
New contracts	172,812	16,848	189,660	
Changes in contract	9,064	225	9,289	
Termination	(46,563)	(1,742)	(48,305)	
Depreciation	(228,403)	(10,665)	(239,068)	
Business combination		_	_	
Others	25,438	975	26,413	
Ending balance	367,480	18,064	385,544	

ilding	Equipment and vehicles	Total
7,480	18,064	385,544
5,396	9,819	235,215
3,514	(26)	3,488
3,597)	(870)	(44,467)
1,175)	(11,406)	(222,581)
819	_	819
7,057	8	7,065
9,494	15,589	365,083
	7,480 5,396 3,514 3,597) 1,175) 819 7,057	ilding         and vehicles           7,480         18,064           5,396         9,819           3,514         (26)           3,597)         (870)           1,175)         (11,406)           819         —           7,057         8

# 16. INTANGIBLE ASSETS

(1) Details of intangible assets are as follows (Unit: Korean Won in millions):

	December 31, 2021						
	Goodwill	Industrial property rights	Development cost	Other intangible assets	Membership deposit	Construction in progress	Total
Acquisition cost	345,449	2,057	661,959	1,174,565	40,955	717	2,225,702
amortization Accumulated impairment	_	(1,334)	(454,251)	(947,830)	_	_	(1,403,415)
losses				(33,553)	(3,348)		(36,901)
Net carrying value	345,449	723	207,708	193,182	37,607		785,386
				December 31,	2022		
	Goodwill	Industrial property rights	Development cost	Other intangible assets	Membership deposit	Construction in progress	Total
Acquisition cost	Goodwill 397,527	property	Development	Other intangible	Membership		Total 2,447,551
Accumulated amortization		property rights	Development cost	Other intangible assets  1,244,516	Membership deposit 46,231	in progress	
Accumulated		property rights 2,219	Development cost 754,031	Other intangible assets  1,244,516	Membership deposit 46,231	in progress	2,447,551

(2) Details of changes in intangible assets are as follows (Unit: Korean Won in millions):

	For the year ended December 31, 2020						
	Goodwill	Industrial property rights	Development cost	Other intangible assets	Membership deposit	Construction in progress	Total
Beginning balance	350,682	692	225,193	234,147	29,330	4,066	844,110
Acquisitions	_	233	53,273	41,329	5,183	3,197	103,215
Disposal	_	_	_	_	(782)	_	(782)
Amortization(*)	_	(216)	(71,620)	(64,822)	_	_	(136,658)
Impairment losses	_	_	_	(7,692)	(99)	_	(7,791)
Transfer	_	_	428	164	_	(592)	
Foreign currencies translation							
adjustments	(14,802)	_	_	(2,208)	(15)	(2)	(17,027)
Business combination	_	_	2,403	4,199	2,079	_	8,681
Others	(1,590)		(804)	328	395		(1,671)
Ending balance	334,290	709	208,873	205,445	36,091	6,669	792,077

<sup>(\*)</sup> Amortization of other intangible assets amounting to 11,890 million Won is included in other operating expenses.

	For the year ended December 31, 2021						
	Goodwill	Industrial property rights	Development cost	Other intangible assets	Membership deposit	Construction in progress	Total
Beginning balance	334,290	709	208,873	205,445	36,091	6,669	792,077
Acquisitions	_	247	74,444	49,137	2,437	977	127,242
Disposal	_	_	_	_	(347)	_	(347)
Amortization(*)	_	(233)	(80,128)	(68,950)	_	_	(149,311)
Impairment losses	_	_	_	(18)	(93)	_	(111)
Transfer	_	_	4,518	2,946	_	(7,464)	_
Foreign currencies translation							
adjustments	11,159	_	_	2,952	232	_	14,343
Others			1	1,670	(713)	535	1,493
Ending balance	345,449	723	207,708	193,182	37,607	717	785,386

<sup>(\*)</sup> Amortization of other intangible assets amounting to 13,963 million Won is included in other operating expenses.

For the year ended December 31, 2022

	Goodwill	Industrial property rights	Development cost	Other intangible assets	Membership deposit	Construction in progress	Total
Beginning balance	345,449	723	207,708	193,182	37,607	717	785,386
Acquisitions	_	162	91,992	62,073	6,571	2,421	163,219
Disposal	_	_	_	(2)	(1,295)	_	(1,297)
Amortization(*)	_	(242)	(87,294)	(75,299)	_	_	(162,835)
Impairment losses	_	_	_	_	88	_	88
Transfer	_	_	300	182	_	(482)	_
Business combination	57,670	_	_	7,795	_	_	65,465
Foreign currencies translation							
adjustments	(5,592)	_	(5)	(865)	(42)	(53)	(6,557)
Others			(74)	5,307	(12)	424	5,645
Ending balance	397,527	643	212,627	192,373	42,917	3,027	849,114

<sup>(\*)</sup> Amortization of other intangible assets amounting to 14,664 million Won is included in other operating expenses.

# (3) Goodwill

1) Details of allocated goodwill based on each cash-generating unit as of December 31, 2021 and 2022 are as follows (Unit: Korean Won in million):

Cash-generating unit(*1)	December 31, 2021	December 31, 2022
Woori Asset Management Corp	43,036	43,036
Woori Global Asset Management Co., Ltd	2,030	2,030
Woori Asset Trust Co., Ltd.	141,780	141,780
PT Bank Woori Saudara Indonesia 1906 Tbk <sup>(*2)</sup>	99,667	97,029
WOORI BANK (CAMBODIA) PLC(*3)	52,082	55,570
PT Woori Finance Indonesia Tbk	_	51,382
Others	6,854	6,700
Total	345,449	397,527

<sup>(\*1)</sup> Allocated to the cash-generating unit that will benefit from the synergy effect of the business combination, and the cash-generating unit is generally comprised of the operating segment or sub-sectors.

### 2) Impairment test

The recoverable amount of the cash-generating unit is measured at larger amount among the fair value less costs to sell or the value to use.

The net fair value is calculated by deducting costs of disposal from the amount received from the sale of the cash-generating unit in an arm's length transaction between the parties with reasonable judgment and willingness to negotiate. In case of difficulty in measuring this amount, the sale amount of a similar cash-generating unit in the past market is calculated by reflecting the characteristics of the cash-generating unit. If reliable information

<sup>(\*2)</sup> The Group has acquired Saudara Bank to expand retail sales in Indonesia and recognized the goodwill as it is expected to strengthen the competitiveness by securing a local sales network in Indonesia.

<sup>(\*3)</sup> The Group has acquired VisionFund Cambodia to expand Cambodian retail sales, and recognized goodwill based on the economies of scale and acquired customer base.

related to fair value less costs to sell is not available, value in use is considered as recoverable amount. Value in use is the present value of future cash flows expected to be generated by the cash-generating unit. Future cash flows are estimated based on the latest financial budget approved by the management, with an estimated period of up to five years. The Group applied 0.0%—1.0% growth rate to estimate future cash flow for the period over five years. The main assumptions used to estimate cash flows are about the size of the market and the share of the group. The appropriate discount rate for discounting future cash flows is the pre-tax discount rate, including assumptions about risk-free interest rates, market risk premium, and systemic risk of cash-generating units. The impairment test, which compares the carrying amount and recoverable amount of the cash-generating unit to which goodwill has been allocated, is conducted every year and every time an impairment sign occurs.

Category	Woori Asset Trust Co., Ltd.	Woori Asset Management Corp.	Woori Global Asset Management Co., Ltd	Woori Saudara Indonesia 1906 Tbk	WB Finance Co., Ltd
Discount rate (%)	14.55	13.36	13.47	15.98	16.88
Terminal growth rate (%)	1.00	1.00	1.00	0.00	0.00
Recoverable amount	431,777	162,772	42,083	784,787	544,693
Carrying amount	300,023	134,073	29,917	739,878	499,823

As a result of the impairment test on goodwill, it is determined that the carrying amount of the cash-generating unit to which the goodwill has been allocated will not exceed the recoverable amount.

### 3) Sensitivity analysis

The sensitivity of the fair value measurement to changes in significant but unobservable inputs used in measuring fair value is as follows (Unit: Korean Won in millions):

Category		Woori Asset Trust Co., Ltd.	Woori Asset Management Corp.	Woori Global Asset Management Co., Ltd	PT Bank Woori Saudara Indonesia 1906 Tbk	WB Finance Co., Ltd
Discount rate (%)	Increase by 1.0% point	(39,501)	(8,680)	(2,553)	(61,030)	(38,845)
	Decrease by 1.0% point	48,345	10,686	3,169	71,658	45,066
Terminal growth rate (%)	Increase by 1.0% point	30,344	6,699	2,034	43,855	26,515
	Decrease by 1.0% point(*)	(25,010)	(5,464)	(1,650)	_	_

<sup>(\*)</sup> In the case of PT Bank Woori Saudara Indonesia 1906 Tbk and and WOORI BANK (CAMBODIA) PLC, declining cases are excluded from the analysis as the permanent growth rate was assumed to be 0%.

### 17. ASSETS HELD FOR SALE

Assets held for distribution (sale) are as follows (Unit: Korean Won in millions):

Assets(*)	December 31, 2021	December 31, 2022
Premises and equipment	8,900	9,589
Investments of associates	11,472	_
Others	5,955	4,183
Total	26,327	13,772

The Group measured assets held for sale at the lower of their net fair value or carrying amount.

The Group has decided to sell some of the premises and equipment through internal consultation during the current year and classifies the premises as non-current assets held for sale. The asset is expected to be sold within 12 months, and the premises and equipment that was scheduled to be sold at the end of the prior year has been sold and removed. On the other hand, other assets that are expected to be sold as of the end of the current year are classified as assets that are expected to be sold within one year due to the possibility of being sold as buildings and land acquired through auction.

# 18. ASSETS SUBJECT TO LIEN AND ASSETS ACQUIRED THROUGH FORECLOSURES

(1) Assets subjected to lien are as follows (Unit: Korean Won in millions):

			Decemb	er 31, 2021
		Collateral given to	Amount	Reason for collateral
Financial assets at FVTPL	Korean treasury and government bonds, etc	Nonghyup bank and others	248,009	Related to bonds sold under repurchase agreements (*)
	Korean treasury and government bonds, etc	Korea Securities Depository	179,079	Securities borrowing collateral
	Korean treasury and government bonds, etc	VI Investment, etc.	3,008	Future trading collateral
	Korean financial institutions' debt securities, etc	Korea Securities Depository	205,783	Securities borrowing collateral
	Korean financial institutions' debt securities, etc	KOREA SECURITIES FINANCE CORPORATION	54,419	Collateral for securities lending purposes
	Korean financial institutions' debt securities, etc	Shinhan Investment Corp.	5,352	Collateral for futures transaction
	Korean corporate bonds	Korea Securities Depository	299,161	Securities borrowing collateral
	Korean capital contributions	Korea Software Financial Cooperative	101	Bid guarantee, etc.
Financial assets at FVTOCI	Korean treasury and government bonds	Korea Securities Depository	470	Related to bonds sold under repurchase agreements(*)
	Korean financial institutions' debt securities, etc	The BOK and others	3,666,849	Settlement risk and others
	Foreign financial institutions' debt securities	STANDARD BANK LONDON LTD	126,595	Related to bonds sold under repurchase agreements(*)
Securities at amortized cost			8,977,748	Settlement risk and others

<sup>(\*)</sup> The Group classifies assets as held for sale that are highly likely to be sold within one year from December 31, 2021 and December 31, 2022.

			Decemb	er 31, 2021
		Collateral given to	Amount	Reason for collateral
	Foreign financial institutions' debt securities	NATIXIS and others	38,995	Related to bonds sold under repurchase agreements(*)
	Foreign financial institutions' debt securities	FHLB ADVANCE and others	10,375	Related to the borrowing limit
Loan at amortized cost and other financial assets	Due from banks in local currency	Daishin AMC Co.,Ltd. and others	1,500	Right of pledge
	Other due from banks in local currency	Samsung Securities Co., Ltd. and others	25,338	Margin deposit for futures or option
	Other due from banks in foreign currency	Yuanta Securities Korea Co., Ltd., etc.	1,051,006	Overseas futures option deposit, etc.
	Mortgage loan	Public offering	2,494,333	Related to covered bonds
Premises and equipment	Land and building	Credit Counselling & Recovery Service and others	1,910	Right to collateral and others
Investment properties	Land and building	Credit Counselling & Recovery Service and others	5,520	Right to collateral and others
		Total	17,395,551	

<sup>(\*)</sup> The Group has the agreements to repurchase the sold assets at the predetermined price or the price that includes the rate of return and to provide the guarantee on the assets. The transferee has the right to sell or to provide as guarantee. Therefore, the Group does not derecognize the assets, but recognizes the relevant amounts as liability (bonds sold under repurchase agreements). The asset is equivalent to a mortgage-backed debt security.

		December 31, 2022			
		Collateral given to	Amount	Reason for collateral	
Financial assets at FVTPL	Korean treasury and government bonds, etc.	KOREA SECURITIES FINANCE CORPORATION, etc.	198,377	Related to bonds sold under repurchase agreements(*1)	
	Korean treasury and government bonds, etc.	Korea Securities Depository	659,050	Securities borrowing collateral	
	Korean treasury and government bonds, etc.	SHINHAN SECURITIES CO, etc.	6,939	Future trading collateral	
	Korean financial institutions' debt securities, etc.	SC FIRST BANK KOREA, SEOUL, etc.	245,876	Variable margin deposit for CSA, etc.	
	Korean financial institutions' debt securities, etc.	SHINHAN ASSET MANAGEMENT, etc.	16,200	Related to bonds sold under repurchase agreements(*1)	
	Korean capital contributions, etc.	Korea Software Financial Cooperative	104	Bid guarantee, etc.	

		December 31, 2022		
		Collateral given to	Amount	Reason for collateral
Financial assets at FVTOCI	Korean treasury and government bonds	Korea Securities Depository	460	Related to bonds sold under repurchase agreements(*1)
	Korean financial institutions' debt securities, etc.	The BOK, etc.	6,394,890	Settlement risk, etc.
	Debt securities in foreign currencies	BNP-PARIBAS, etc.	1,060,120	Variable margin deposit for CSA, etc.
	Debt securities in foreign currencies	SC BANK, H.K, etc.	582,738	Related to bonds sold under repurchase agreements(*1)
Securities at amortized cost	Korean treasury and government bonds	Korea Securities Depository	1,100,351	Related to bonds sold under repurchase agreements(*1)
	Korean treasury and government bonds	The BOK, etc.	10,820,136	Settlement risk, etc.
	Debt securities in foreign currencies	NATIXIS, etc.	70,949	Related to bonds sold under repurchase agreements(*1)
	Debt securities in foreign currencies	FHLB ADVANCE, etc.	10,570	Related to the borrowing limit
Loan at amortized cost and other financial assets	Due from banks in local currency	Daishin AMC Co.,Ltd. and others	1,500	Right of pledge
	Other due from banks in local currency	The Korea Exchange, etc.	133,539	Margin deposit for CCP
	Other due from banks in foreign currency	Korea Investment & Securities, etc.	1,142,784	Overseas futures option deposit, etc.
	Mortgage loan	Public offering	1,892,723	Related to covered bonds
Premises and equipment	Land and building	Gakorea Co., Ltd , etc.	1,851	Right to collateral and others <sup>(*2)</sup>
Investment properties	Land and building	Gakorea Co., Ltd., etc.	5,365	Right to collateral and others <sup>(*2)</sup>
		Total	24,344,522	

<sup>(\*1)</sup> The Group has the agreements to repurchase the sold assets at the predetermined price or the price that includes the rate of return and to provide the guarantee on the assets. The transferee has the right to sell or to provide as guarantee. Therefore, the Group does not derecognize the assets, but recognizes the relevant amounts as liability (bonds sold under repurchase agreements). The asset is equivalent to a mortgage-backed debt security.

<sup>(\*2)</sup> The maximum pledge amount is 522 million Won.

(2) As of December 31, 2021 and 2022 there is no asset acquired through foreclosures.

	December 31, 2021	December 31, 2022
Investment properties		
Land	2,185	6,404
Building	181	165
Sub-total	2,366	6,569
Other assets		
Land for non-business use	21,156	21,302
Building for non-business use <sup>(*1)</sup>	1,526	3,049
Movables for non-business use <sup>(*2)</sup>	120	165
Real estate assessment provision for non-business use	(1,129)	(1,176)
Sub-total	21,673	23,340
Assets held for sale		
Land	2,980	2,351
Building	2,557	1,832
Others	418	_
Sub-total	5,955	4,183
Total	29,994	34,092

<sup>(\*1)</sup> The cumulative depreciation amount as of December 31, 2021 and 2022 is 716 million Won and 1,055 million Won, respectively.

## (3) Securities loaned are as follows (Unit: Korean Won in millions):

		December 31, 2021	December 31, 2022	Loaned to
Financial assets at	Korean treasury and			Korea Securities Finance
FVTOCI	government bonds	98,535	98,027	Corporation

Securities loaned are lending of specific securities to borrowers who agree to return the same amount of the same security at the end of lending period. As the Group does not derecognize these securities.

# (4) Collaterals held that can be disposed and re-subjected to lien regardless of defaults of counterparties

Fair values of collaterals held that can be disposed and re-subjected to lien regardless of defaults of counterparties as of December 31, 2021 and 2022 are as follows (Unit: Korean Won in millions):

	December 31, 2021		
	Fair values of collaterals	Fair values of collaterals were disposed or re-subjected to lien	
Securities	10,785,412	_	
_	Decembe	r 31, 2022	
	Fair values of collaterals	Fair values of collaterals were disposed or re-subjected to lien	
Securities	7,109,933	_	

<sup>(\*2)</sup> The cumulative depreciation amount as of December 31, 2021 and 2022 is 907 million Won and 882 million Won, respectively.

## 19. OTHER ASSETS

Details of other assets are as follows (Unit: Korean Won in millions):

	December 31, 2021	December 31, 2022
Lease assets	1,782,887	2,593,578
Prepaid expenses	189,808	287,323
Advance payments	61,042	99,772
Non-operational assets	16,248	23,340
Others	38,965	57,539
Total	2,088,950	3,061,552

# 20. FINANCIAL LIABILITIES AT FVTPL

(1) Financial liabilities at FVTPL are as follows (Unit: Korean Won in millions):

	December 31, 2021	December 31, 2022
Financial instruments at fair value through profit or loss measured at fair value	4,873,458	8,952,399
Total	4,873,458	8,952,399

(2) Financial liabilities at fair value through profit or loss measured at fair value are as follows (Unit: Korean Won in millions):

	December 31, 2021	December 31, 2022
Deposits		
Gold banking liabilities	65,016	35,161
Borrowings		
Securities sold	241,174	12,113
Derivative liabilities	4,567,268	8,905,125
Total	4,873,458	8,952,399

# 21. DEPOSITS DUE TO CUSTOMERS

Details of deposits due to customers by type are as follows (Unit: Korean Won in millions):

	December 31, 2021	December 31, 2022
Deposits in local currency:		
Deposits on demand	18,029,136	15,627,300
Deposits at termination	254,319,473	270,092,855
Mutual installment	24,620	22,995
Deposits on notes payables	2,954,066	3,675,596
Deposits on CMA	92,360	60,079
Certificate of deposits	3,586,423	5,255,889
Other deposits	1,286,719	1,196,486
Sub-total	280,292,797	295,931,200
Deposits in foreign currencies:		
Deposits in foreign currencies	37,643,900	46,263,943
Present value discount	(36,826)	(92,352)
Sub-total	37,607,074	46,171,591
Customers' deposits for beneficiary		2,418
Total	317,899,871	342,105,209

# 22. BORROWINGS AND DEBENTURES

(1) Details of borrowings are as follows (Unit: Korean Won in millions):

	December 31, 2021		
	Lenders	Interest rate (%)	Amount
Borrowings in local currency:			
Borrowings from The BOK	The BOK	0.3	3,144,897
Borrowings from government funds	Small Enterprise and Market		
	Service and others	$0.0 \sim 2.4$	2,053,611
Others	The Korea Development Bank		
	and others	$0.0 \sim 3.1$	9,984,518
Sub-total			15,183,026
Borrowings in foreign currencies:			
Borrowings in foreign currencies	JPMorgan Chase & Co. and		
	others	$(0.5) \sim 7.3$	8,545,077
Bills sold	Others	$0.0 \sim 1.3$	9,111
Call money	Bank and others	$(0.5) \sim 2.6$	317,961
Bonds sold under repurchase agreements	Other financial institutions	$(0.5) \sim 10.6$	749,976
Present value discount			(49,692)
Total			24,755,459

<sup>(\*)</sup> As of December 31, 2021, foreign currency borrowings subject to fair value hedges were included in the amount of 35,694 million Won.

	December 31	, 2022	
	Lenders	Interest rate (%)	Amount
Borrowings in local currency:			
Borrowings from The BOK	The BOK	$0.3 \sim 1.8$	3,040,877
Borrowings from government funds	Small Enterprise and Market		
	Service and others	$0.0 \sim 3.5$	2,021,049
Others	The Korea Development Bank		
	and others	$0.0 \sim 6.7$	9,562,082
Sub-total			14,624,008
Borrowings in foreign currencies:			
Borrowings in foreign currencies	The Export-Import Bank of		
	Korea and others	$(0.1) \sim 10.6$	11,161,294
Bills sold	Others	$0.0 \sim 2.4$	7,308
Call money	Bank and others	$1.6 \sim 5.5$	400,071
Bonds sold under repurchase agreements	Other financial institutions	$0.2 \sim 6.4$	2,313,044
Present value discount			(76,122)
Total			28,429,603

(2) Details of debentures are as follows (Unit: Korean Won in millions):

	December 31, 2021		December 31, 2021		Decembe	r 31, 2022
	Interest rate (%)	Amount	Interest rate (%)	Amount		
Face value of bond (*):						
Ordinary bonds	$0.7 \sim 3.6$	37,004,942	$0.8 \sim 7.5$	37,132,334		
Subordinated bonds	$1.9 \sim 5.1$	6,767,442	$1.9 \sim 5.1$	5,835,325		
Other bonds	$0.8 \sim 17.0$	911,190	$0.8 \sim 17.0$	1,271,364		
Sub-total		44,683,574		44,239,023		
Discounts on bonds		(29,710)		(40,537)		
Total		44,653,864		44,198,486		

<sup>(\*)</sup> Included debentures under fair value hedge amounting to and 2,366,724 million Won and 3,076,983 million Won as of December 31, 2021 and 2022 respectively. Also, debentures under cash flow hedge amounting to 819,298 million Won and 1,324,812 million Won are included as of December 31, 2021 and 2022 respectively.

### 23. PROVISIONS

(1) Details of provisions are as follows (Unit: Korean Won in millions):

	December 31, 2021	December 31, 2022
Asset retirement obligation	80,777	82,717
Provisions for guarantees (*1)		76,508
Provisions for unused loan commitments		106,033
Other provisions (*2)	308,195	280,607
Total	576,134	545,865

<sup>(\*1)</sup> Provisions for guarantees includes provision for financial guarantee of 53,321 million Won and 47,969 million Won as of December 31, 2021 and 2022, respectively.

- (\*2) Other provisions consist of provision for litigation, loss compensation and others.
- (2) Changes in provisions for guarantees and unused loan commitments are as follows (Unit: Korean Won in millions):
- 1) Provisions for guarantees

	For the year ended December 31, 2020			
	Stage1	Stage2	Stage3	Total
Beginning balance	50,801	26,303	15,382	92,486
Transfer to 12-month expected credit loss	81	(60)	(21)	_
Transfer to expected credit loss for the entire period	(396)	1,639	(1,243)	_
Transfer to credit-impaired financial assets	(12)	(13)	25	_
Net provision (reversal) of unused amount	(1,124)	(11,124)	(6,100)	(18,348)
Changes due to business combinations	14,501	_	_	14,501
Others (*)	953			953
Ending balance	64,804	16,745	8,043	89,592

(\*) Recognized as a result of new financial guarantee contract valued at initial fair value.

	For the year ended December 31, 2021			
	Stage1	Stage2	Stage3	Total
Beginning balance	64,804	16,745	8,043	89,592
Transfer to 12-month expected credit loss	2,146	(2,144)	(2)	_
Transfer to expected credit loss for the entire period	(162)	193	(31)	_
Transfer to credit-impaired financial assets	(3)	(162)	165	_
Provisions used	(6,964)	_	_	(6,964)
Net provision (reversal) of unused amount	(9,929)	636	(1,408)	(10,701)
Others (*)	2,938	1		2,939
Ending balance	52,830	15,269	6,767	74,866

(\*) Recognized as a result of new financial guarantee contract valued at initial fair value.

	For the year ended December 31, 2022		31, 2022	
	Stage1	Stage2	Stage3	Total
Beginning balance	52,830	15,269	6,767	74,866
Transfer to 12-month expected credit loss	1,206	(1,206)	_	_
Transfer to expected credit loss for the entire period	(119)	119	_	_
Transfer to credit-impaired financial assets	(3)	(338)	341	_
Provisions used	_	_	_	_
Net provision (reversal) of unused amount	(3,449)	10,483	577	7,611
Others (*)	(5,969)			(5,969)
Ending balance	44,496	24,327	7,685	76,508

<sup>(\*)</sup> Recognized as a result of new financial guarantee contract valued at initial fair value.

# 2) Provisions for unused loan commitment

	For the year ended December 31, 2020			31, 2020
	Stage1	Stage2	Stage3	Total
Beginning balance	65,038	43,164	4,352	112,554
Transfer to 12-month expected credit loss	8,006	(7,500)	(506)	_
Transfer to expected credit loss for the entire period	(2,704)	3,299	(595)	
Transfer to credit-impaired financial assets	(174)	(186)	360	_
Net provision (reversal) of unused amount	(6,653)	16,949	(422)	9,874
Changes due to business combinations	7	_	_	7
Others	(280)			(280)
Ending balance	63,240	55,726	3,189	122,155
	For the	year ended	December 3	31, 2021
	Stage1	Stage2	Stage3	Total
Beginning balance	63,240	55,726	3,189	122,155
Transfer to 12-month expected credit loss	15,522	(14,965)	(557)	_
Transfer to expected credit loss for the entire period	(2,338)	3,129	(791)	_
Transfer to credit-impaired financial assets	(110)	(226)	336	_
Net provision (reversal) of unused amount	(9,005)	871	(1,857)	(9,991)
Others	131	1	_	132
Ending balance	67,440	44,536	320	112,296
	For the	year ended	December 3	31, 2022
	Stage1	Stage2	Stage3	Total
Beginning balance	67,440	44,536	320	112,296
Transfer to 12-month expected credit loss	14,349	(14,217)	(132)	
Transfer to expected credit loss for the entire period	(2,619)	2,648	(29)	_
Transfer to credit-impaired financial assets	(197)	(306)	503	_
Net provision (reversal) of unused amount	(11,402)	5,527	(457)	(6,332)
Others	69	· —		69
Ending balance	67,640	38,188	205	106,033

# (3) Changes in asset retirement obligation for the years ended December 31, 2020, 2021 and 2022 are as follows (Unit: Korean Won in millions):

	For the years ended December 31		
	2020	2021	2022
Beginning balance	66,485	68,402	80,777
Provisions provided	806	3,235	4,082
Provisions used	(2,958)	(5,066)	(7,400)
Reversal of provisions unused	(106)	(947)	(21)
Unwinding of discount	459	495	909
Business combination	219	_	_
Increase (decrease) of restoration expense, etc.	3,497	14,658	4,370
Ending balance	68,402	80,777	82,717

The amount of the asset retirement obligation is the present value of the best estimate of future expected expenditure to settle the obligation – arising from leased premises as of December 31, 2022, discounted by appropriate discount rate. The restoration cost is expected to occur by the end of each premise's lease period, and the Group has used average lease period of each category of leases terminated during the past years in order to rationally estimate the lease period. In addition, the Group used average amount of actual recovery cost for the past 3 years and the inflation rate for last year in order to estimate future recovery cost.

(4) Changes in other provisions for the years ended December 31, 2020, 2021 and 2022 are as follows (Unit: Korean Won in millions):

	For the years ended December 31		cember 31
	2020	2021	2022
Beginning balance	172,455	221,494	308,195
Provisions provided	232,629	85,706	36,284
Provisions used	(181,433)	(10,375)	(8,540)
Reversal of provisions unused(*)	(2,345)	(718)	(54,893)
Foreign currencies translation adjustments	606	11,957	(621)
Transfer	(344)	_	_
Others	(74)	131	182
Ending balance	221,494	308,195	280,607

<sup>(\*)</sup> The Group provided Korean Won settlement services for trading transaction settlement between Korea and Iran, investigated by U.S. prosecutors (federal prosecutors, New York state prosecutors) and New York State Department of Financial Services for violations of U.S. sanctions against Iran, Sudan, Syria and Cuba. In this regard, the Office of Foreign Assets Control concluded its investigation in December 2020 urging the bank's attention without taking any additional sanctions, and New York State Department of Financial Services concluded its investigation in February 2022 without taking any additional sanctions. Meanwhile, in June 2022, the Group reversed the provision related to the investigation of the U.S. Prosecutors, which have not been completed yet, in consideration of the opinion of an independent legal expert that the probability of sanctions by the U.S. Prosecutors in this case is low.

# (5) Others

- 1) The Group recognized the provision of the estimated compensation amount related to the miss-selling of the Derivative Linked Fund (DLF) incurred during 2019 and a fine expected to be imposed by the Financial Supervisory Service as the best estimate for the expenditure required to meet its obligations at the end of the reporting period.
- 2) For the year ended December 31, 2020, the Group recognized the provisions as the best estimate due to the expected losses of clients arising from the delay in the redemption of funds by Lime Asset Management and the dispute settlement by the Financial Supervisory Service. As of December 31, 2022, the provision for this case is 122.1 billion Won.
- 3) On October 22, 2021, the Group made a resolution to pay in advance for Platform Asia funds, etc., which are delayed in redemption at the Board of Directors Meeting of Woori Bank, the subsidiary. Provisions for estimated compensation amounts related to the prepayment was recognized as the best estimate of the expenditure. As of December 31, 2022, the sales revenue for Platform Asia, Heritage DLS, and Gen2 DLS sold 85 billion Won, 22.3 billion Won, and 90.2 billion Won, respectively, and provisions is 35.7 billion Won, 22.3 billion Won, and 12.6 billion Won, respectively.

# 24. NET DEFINED BENEFIT LIABILITY(ASSET)

The Group's pension plan is based on the defined benefit retirement pension plan. Employees and directors with one or more years of service are entitled to receive a payment upon termination of their employment, based on their length of service and rate of salary at the time of termination. The assets of the plans are measured at their fair value at the end of reporting date. The plan liabilities are measured using the projected unit method, which takes account of projected earnings increases, using actuarial assumptions that give the best estimate of the future cash flows that will arise under the plan liabilities.

The Group is exposed to various risks through defined benefit retirement pension plan, and the most significant risks are as follows:

Volatility of asset	The defined benefit obligation was estimated with an interest rate calculated based on blue chip corporate bonds earnings. A deficit may occur if the rate of return of plan assets falls short of the interest rate.
Decrease in profitability of blue-chip bonds	A decrease in profitability of blue-chip bonds will be offset by some increase in the value of debt securities that the employee benefit plan owns but will bring an increase in the defined benefit obligation.
Risk of inflation	Defined benefit obligations are related to inflation rate; the higher the inflation rate is, the higher the level of liabilities. Therefore, deficit occurs in the system if an inflation rate increases.

(1) Details of net defined benefit liability are as follows (Unit: Korean Won in millions):

	December 31, 2021	December 31, 2022
Present value of defined benefit obligation	1,618,098	1,377,545
Fair value of plan assets	(1,591,458)	(1,661,623)
Net defined benefit liabilities (*)	26,640	(284,078)

<sup>(\*)</sup> Net defined benefit liability of 26,640 million Won as of December 31, 2021 are the subtracted amount of the net defined benefit asset of 21,346 million Won from the net defined benefit liability of 47,986. Net defined benefit assets of 284,078 million Won as of December 31, 2022 are the subtracted amount of the net defined benefit liability of 35,202 million Won from the net defined benefit assets of 319,280.

(2) Changes in the carrying value of defined benefit obligation are as follows (Unit: Korean Won in millions):

	For the years ended December 31		
	2020	2021	2022
Beginning balance	1,442,859	1,610,680	1,618,098
Current service cost	174,509	178,416	166,741
Interest cost	34,653	39,814	48,238
Remeasurements Financial assumption	(20,838)	(92,367)	(356,344)
Demographic assumptions .	4,161	(251)	(9)
Experience adjustments	(4,481)	(12,155)	(3,838)
Retirement benefit paid	(55,864)	(106,050)	(92,914)
Foreign currencies translation adjustments	(119)	165	(69)
Changes due to business combinations	34,001	_	_
Others	1,799	(154)	(2,358)
Ending balance	1,610,680	1,618,098	1,377,545

(3) Changes in the plan assets are as follows (Unit: Korean Won in millions):

	For the years ended December 31		
	2020	2021	2022
Beginning balance	1,352,971	1,564,101	1,591,458
Interest income	34,534	40,927	49,916
Remeasurements	(7,666)	(15,022)	(18,095)
Employer's contributions	211,505	103,251	127,979
Retirement benefit paid	(52,627)	(99,523)	(87,472)
Changes due to business combination	27,599	_	_
Others	(2,215)	(2,276)	(2,163)
Ending balance	1,564,101	1,591,458	1,661,623

(4) The fair value of the plan assets by composition as of December 31, 2021 and 2022 are as follows (Unit: Korean Won in millions):

	December 31, 2021	December 31, 2022
Cash and due from banks	1,591,458	1,661,623

Meanwhile, among plan assets, realized returns on plan assets amount to 25,905 million Won and 31,821 million Won for the years ended December 31, 2021 and 2022, respectively. The contribution expected to be paid in the next accounting year amounts to 123,043 million Won.

(5) Amounts related to the defined benefit plan that are recognized in the consolidated statements of comprehensive income are as follows (Unit: Korean Won in millions):

	For the ye	ars ended De	ecember 31
	2020	2021	2022
Current service cost	174,509	178,416	166,741
Net interest income (expense)	119	(1,113)	(1,678)
Cost recognized in net income	174,628	177,303	165,063
Remeasurements (*)	(13,492)	(89,751)	(342,096)
Cost recognized in total comprehensive income	<u>161,136</u>	87,552	<u>(177,033)</u>

#### (\*) Amount before tax

Retirement benefits related to defined contribution plans recognized as expenses are 3,827 million Won, 4,494 million Won and 4,240 million Won for the years ended December 31, 2020, 2021 and 2022, respectively.

(6) Key actuarial assumptions used in net defined benefit liability measurement are as follows:

	December 31, 2020	December 31, 2021	December 31, 2022
Discount rate	$2.13\% \sim 2.97\%$	$2.40\% \sim 3.49\%$	5.25% ~ 5.99%
Future wage growth rate	$2.05\% \sim 7.00\%$	$2.03\% \sim 5.56\%$	$2.1\% \sim 5.84\%$
Mortality rate	Issued by Korea	Issued by Korea	Issued by Korea
	Insurance Development	Insurance Development	Insurance Development
	Institute	Institute	Institute
Retirement rate	Experience rate for each	Experience rate for each	Experience rate for each
	employment	employment	employment
	classification	classification	classification

The weighted average maturity of defined benefit liability is a minimum of 5.38 to a maximum 10.71 years.

(7) The sensitivity to actuarial assumptions used in the assessment of defined benefit obligation is as follows (Unit: Korean Won in millions):

		<b>December 31, 2021</b>	December 31, 2022
Discount rate	Increase by 1% point	(161,428)	(146,319)
	Decrease by 1% point	189,630	170,529
Future wage growth rate	Increase by 1% point	188,392	174,546
	Decrease by 1% point	(163,431)	(153,712)

# 25. OTHER FINANCIAL LIABILITIES AND OTHER LIABILITIES

Other financial liabilities and other liabilities are as follows (Unit: Korean Won in millions):

	<u>December 31, 2021</u>	<b>December 31, 2022</b>
Other financial liabilities:		
Accounts payable	7,031,366	6,001,858
Accrued expenses	2,070,639	3,219,349
Borrowings from trust accounts	3,107,456	3,475,118
Agency business revenue	433,041	213,845
Foreign exchange payables	782,176	822,446
Domestic exchange settlement credits	6,708,220	4,631,921
Lease liabilities	343,213	319,161
Other miscellaneous financial liabilities	3,772,437	4,148,621
Present value discount	(15,322)	(20,451)
Sub-total	24,233,226	22,811,868
Other liabilities:		
Unearned income	291,147	351,633
Other miscellaneous liabilities	265,706	338,524
Sub-total	556,853	690,157
Total	24,790,079	23,502,025

# **26. DERIVATIVES**

(1) Derivative assets and derivative liabilities are as follows (Unit: Korean Won in millions):

			Dec	cember 31, 202	1		
		Assets				Liabilitie	es
	Nominal amount	For cash flow hedge	For fair value hedge	For trading	For cash flow hedge	For fair value hedge	For trading
Interest rate:							
Futures	118,423	_	_	_	_	_	
Forwards	340,000	_	_	16,434	_		
Swaps	134,196,188	351	95,103	136,185	_	20,287	305,443
Purchase options	170,000	_	_	3,959	_		
Written options	340,000	_	_		_		8,552
Currency:							
Futures	7,445				_	_	
Forwards	114,072,910		_	2,466,893	_		993,823
Swaps	101,117,559	11,310	_	1,444,634	7,297		2,345,735
Purchase options	1,079,610		_	10,968	_		_
Written options	1,686,787	_	_	_	_	_	8,952
Equity:							
Futures	337,916		_	_	_		_
Forwards	233		_	64	_		_
Swaps	642,963	_	_	27,031	_	_	3,784
Purchase options	17,503,553	_	_	696,963	_	_	_
Written options	19,106,573	_	_	_	_	_	900,979
Total	390,720,160	11,661	95,103	4,803,131	7,297	20,287	4,567,268
			Dec	cember 31, 202	2		
		Assets Liabilities				es	
	Nominal amount	For cash flow hedge	For fair value hedge	For trading	For cash flow hedge	For fair value hedge	For trading
Interest rate:							
Futures	42,545	_	_	_	_	_	_
Forwards	2,620,000	_	_	249,356	_	_	_
Swaps	136.550.518	2.041	_	440.540	_	193.831	474.158

	Nominal amount	For cash flow hedge	For fair value hedge	For trading	For cash flow hedge	For fair value hedge	For trading
Interest rate:							
Futures	42,545	_	_	_	_	_	_
Forwards	2,620,000	_	_	249,356	_	_	_
Swaps	136,550,518	2,041	_	440,540	_	193,831	474,158
Purchase options	170,000	_	_	9,308	_	_	_
Written options	310,000	_	_		_	_	16,752
Currency:							
Futures	51,136	_	_	_	_	_	_
Forwards	90,134,257	_	_	3,083,082	_	_	1,360,535
Swaps	97,197,309	35,745	_	3,105,901	9,080	_	5,500,970
Purchase options	487,852	_	_	23,182	_	_	_
Written options	570,982	_	_	_	_	_	7,929
Equity:							_
Futures	958,589	_	_	_	_		_
Forwards	183	_	_	100	_	_	_
Swaps	568,835	_	_	90,237	_	_	673
Purchase options	29,801,478	_	_	1,204,475	_	_	_
Written options	29,874,836						1,544,108
Total	389,338,520	37,786		8,206,181	9,080	193,831	8,905,125

Derivatives held for trading are classified into financial assets at FVTPL (Note 7) and financial liabilities at FVTPL (Note 20), and derivatives designated for hedging are presented as a separate line item in the consolidated statements of financial position.

#### (2) Overview of the Group's hedge accounting

The hedging relationships the entity applies fair value hedge accounting and cash flow hedge accounting to are affected by interest rate which is related with Interest Rate Benchmark Reform. The interest rates to which the hedging relationships are exposed are USD 3M LIBOR, Compounding SOFR, AUD 3M BBSW, and CD 3M. The nominal amounts of hedging instruments related to USD 3M LIBOR, Compounding SOFR, AUD 3M BBSW, and CD 3M in the hedging relationships of the Group are USD 2,120,000,000, USD 525,000,000, AUD 150,000,000, and 150,000 million Won, respectively. The entity pays close attention to discussions in the market and industry regarding the applicable alternative benchmark interest rates for the exposed interest rate. The entity judges related uncertainty is expected to be no longer present when the exposed interest rates are replaced by the applicable benchmark interest rates.

#### 1) Fair value hedge

As of December 31, 2022, the Group has applied fair value hedge on fixed interest rate foreign currency denominated debentures amounting to 2,928,127 million Won, and foreign currency loans amounting to 148,856 million Won. The purpose of the hedging is to avoid fair value volatility risk of fixed interest rate foreign currency denominated debentures derived from fluctuations of market interest rate, and as such the Group entered into interest rate swap agreements designated as hedging instruments.

Pursuant to the interest rate swap agreement, by swapping the calculated difference between the fixed interest rate and floating interest rate applied to the nominal value, the fair value fluctuation risk is hedged as the foreign currency denominated debentures fixed interest rate terms are converted to floating interest rate. Pursuant to the interest rate swap agreement, hedge ratio is determined by matching the nominal value of hedging instrument to the face value of the hedged item.

In this hedging relationship, only the market interest rate fluctuation, which is the most significant part of the fair value change of the hedged item, is designated as the hedged risk, and other risk factors including credit risk are not included in the hedged risk. Therefore, the ineffective portion of the hedge could arise from fluctuations in the timing of the cash flow of the hedged item, price margin set by counterparty of hedging instrument, and unilateral change in credit risk of any party of hedging instrument.

The interest rate swap agreements and the hedged items are subject to fluctuations in the underlying market rate of interest and the Group expects the fair value of the interest rate swap contract and the value of the hedged item to generally change in the opposite direction.

The fair value of the interest rate swap at the end of the reporting period is determined by discounting future cash flows estimated by using the yield curve at the end of the reporting period and the credit risk embedded in the contract and the average interest rate is determined based on the outstanding balance at the end of the reporting period. The variable interest rate applied to the interest rate swap is USD Libor 3M plus spread, AUD BBSW 3M plus spread and EURIBOR 3M plus spread. In accordance with the terms of each interest rate swap contract designated as a hedging instrument, the Group receives interest at a fixed interest rate and pays interest at a variable interest rate.

#### 2) Cash Flow Hedge

As of the December 31, 2022, the Group has applied cash flow hedge on local currency denominated debentures amounting to 229,892 million Won and debentures on foreign currency amounting to 1,094,920 million Won The Group's hedging strategies are to ① Mitigate risks of cash flow fluctuation from

variable interest rate debentures on local currency due to changes in market interest rate by entering into an interest rate swap contract and thereby designating it as hedging instrument; ② Mitigate the risks of cash flow fluctuation from principal and interest of variable interest rate debentures denominated in foreign currency due to changes in foreign exchange rates and interest rates by entering into a currency swap contract and thereby designating it as hedging instrument; ③ Mitigate the risks of cash flow fluctuation from principal and interest of fixed interest rate debentures denominated in foreign currency due to changes in foreign exchange rates by entering into a currency swap contract and thereby designating it as hedging instrument.

This means exchanging a predetermined nominal amount as set forth in the interest rate swap contract adjusted by the differences between the fixed and variable interest rates, which results in the conversion of interest rates of debentures in local currency from variable interest into fixed interest, eliminating the cash flow fluctuation risk.

In addition, this also means a payment of predetermined principal amount as set forth in the currency swap adjusted by fixed interest rate, an exchange of an amount calculated by applying variable interest rate to USD or applying fixed interest rate to SGD, and an exchange of the principal denominated in KRW and principal denominated in foreign currency at maturity eliminating cash flow fluctuation risk on principal and interest.

The hedge ratio is determined by matching the nominal amount of the hedging instrument to the face amount of the hedged item in accordance with interest rate swap and currency swap.

Only interest rate and foreign exchange rate fluctuation risk, which is the most significant factor in the cash flow fluctuation of the hedged item, is addressed in this hedging relationship, and other risk factors such as credit risk are not subject to hedging.

Thus, there could be hedge ineffectiveness arising from price margin set by the counterparty of hedging instruments and unilateral change in credit risk of any party in the transaction.

The interest rate swap, currency swap contract and the hedged item are all affected by the changes in market interest rate and foreign exchange rates which are basic factors of the derivative. The Group expects that the value of interest rate swap contract, currency swap contract and value of the hedged item will generally fluctuate in opposite direction.

#### 3) Hedges of Net Investment in Foreign Operations

Foreign currency exposure arises from the Group's net investments in Woori America Bank, Woori Cambodia Bank and Hong Kong Woori Investment Bank, and overseas branches, which use USD as their functional currency. The risk arises from fluctuations in the spot exchange rate between USD and KRW. This may result in different net investment amounts.

The risk hedged in the net investment hedging is the weakness of KRW against USD, which may reduce the carrying amount of the Group's net investments in Woori America Bank, Woori Cambodia Bank and Hong Kong Woori Investment Bank.

A portion of the Group's net investments in Woori America Bank, Woori Cambodia Bank and Hong Kong Woori Investment Bank are hedged in USD denominated foreign currency bonds(Carrying amount as of December 31, 2022: USD 864,390,437) and mitigate foreign exchange risk arising from the net assets of subsidiaries.

The bonds was designated as a hedging instrument for changes in the value of net investment resulting from fluctuations in the USD/KRW spot exchange rate.

To assess the effectiveness of the hedging instrument, the Group determines the economic relationship between the hedging instrument and the hedged item by comparing (offsetting) changes in the carrying amount of the liability due to changes in the spot exchange rate with changes. The Group's policy is to hedge the net investment only within the principal range of the liability.

(3) The nominal amounts of the hedging instrument are as follows (Unit: USD, AUD, EUR, and Korean Won in millions):

	December 31, 2021			
	1 year or less	1 year to 5 years	More than 5 years	Total
Fair value hedge				
Interest rate risk				
Interest rate swap (USD)	_	1,550,000,000	300,000,000	1,850,000,000
Interest rate swap (AUD)	_	150,000,000	_	150,000,000
Interest rate swap (EUR)	_	26,591,163	_	26,591,163
Cash flow hedge				
Interest rate risk				
Interest rate swap (KRW)	_	50,000	_	50,000
Foreign currencies translation risk and				
interest rate risk				
Currency swap (USD)	200,000,000	270,000,000	_	470,000,000
Foreign currencies translation risk				
Currency swap (USD)	_	180,000,000	_	180,000,000
		December	31, 2022	
•		1 year to 5	More than 5	
	1 year or less	years	years	Total
Fair value hedge				
Interest rate risk				
Interest rate swap (USD)	_	2,075,000,000	300,000,000	2,375,000,000
Interest rate swap (AUD)	150,000,000	_	_	150,000,000
Interest rate swap (KRW)	150,000	_	_	150,000
Cash flow hedge				
Interest rate risk				
Interest rate swap (KRW)	50,000	140,000	_	190,000
Foreign currencies translation risk and				
interest rate risk				
Currency swap (USD)	_	270,000,000	_	270,000,000
Foreign currencies translation risk				
Currency swap (USD)	80,000,000	100,000,000	_	180,000,000
Currency swap (EUR)	_	194,780,000	_	194,780,000
Hedges of net investment in				
foreign operations				
Exchange risk		<b></b>		
Foreign currency bond (USD)	272,390,437	592,000,000	_	864,390,437

(4) The average interest rate and average currency rate of the hedging instrument as of December 31, 2021 and 2022 are as follows:

#### December 31, 2021

Average interest rate and average exchange rate

Fair value hedge

Interest rate risk

Interest rate swap (USD)

Interest rate swap (AUD)

Interest rate swap (EUR)

Cash flow hedge

Interest rate risk

Interest rate swap (KRW)

Foreign currencies translation risk and

interest rate risk

Currency swap (USD)

Foreign currencies translation risk

Currency swap (USD)

Fixed 3.62% receipt and Libor 3M + 1.45% floating paid Fixed 0.84% receipt and BBSW 3M+0.72% paid EURIBOR 3M + 0.09% receipt and 1.5% fixed paid

KRW CD+0.33% receipt, 1.68% paid

USD 1M Libor+0.70% receipt, KRW 0.93% paid, KRW/USD = 1.206.60

USD 1.50% receipt, KRW 1.57% paid, KRW/USD = 1,140.50

December 31, 2022

Average interest rate and average exchange rate

Fair value hedge

Interest rate risk

Interest rate swap (USD)

Interest rate swap (USD)

Interest rate swap (AUD)

Interest rate swap (KRW)

Cash flow hedge

Interest rate risk

Interest rate swap (KRW)

Interest rate swap (KRW)

Foreign currencies translation risk and

interest rate risk

Currency swap (USD)

Foreign currencies translation risk

Currency swap (USD)

Currency swap (EUR)

Hedges of net investment

Exchanging rate risk

Foreign currency denominated debentures

(KRW/USD)

Fixed 3.62% receipt and Libor 3M+1.45% floating paid Fixed 2.05% receipt and (C.SOFR)+0.65% paid Fixed 0.84% receipt and BBSW 3M+0.72% paid Fixed 3.13% receipt and CD 3M paid

KRW CMS 5Y+0.46% receipt, 3.65% paid KRW CD+0.33% receipt, 1.68% paid

USD 1M Libor+0.79% receipt, KRW 0.80% paid, KRW/USD = 1.226.29

USD 1.50% receipt, KRW 1.57% paid, KRW/USD = 1,140.50 EUR 1.98% receipt, KRW 3.68% paid, KRW/EUR = 1,344.08

1,344.37

(5) The amounts related to items designated as hedging instruments are as follows (Unit: USD, AUD, EUR, and Korean Won in millions):

	December 31, 2021					
	Nominal amounts of the hedging instrument	Carrying a the hedging Assets		Line item in the statement of financial position where the hedging instrument is located	Changing in fair value used for calculating hedge ineffectiveness	
Fair value hedge Interest rate risk Interest rate swap (USD)	1,850,000,000	95,086	20,287	Derivative assets	(83,821)	
Interest rate swap (AUD)	150,000,000			(designated for hedging) Derivative liabilities (designated for hedging)		
Interest rate swap (EUR) Cash flow hedge	26,591,163	17	_	(designated for nedging)	17	
Interest rate risk Interest rate swap (KRW)	50,000	351	_	Derivative liabilities (designated for hedging)	1,896	
Foreign currency translation risk and interest rate risk	470,000,000	3,631			60,564	
Currency swap (USD)  Foreign currency translation	470,000,000	3,031	7,297	Derivative liabilities (designated for hedging)	00,304	
risk Currency swap (USD)	180,000,000	7,679	_	Derivative liabilities (designated for hedging)	8,218	
	Nominal amounts of the hedging	the he instru	amount of edging ument	Line item in the statement of financial position where the hedging instrument is	Changing in fair value used for calculating hedge	
	instrument	Assets	Liabilities	located	ineffectiveness	
Fair value hedge Interest rate risk Interest rate Swap (USD)	2,375,000,000	_	193,831	Derivative assets (designated for hedging) Derivative liabilities (designated for hedging)	(247,765)	
Interest rate Swap (AUD) Interest rate Swap (KRW) Cash flow hedge	150,000,000 150,000			(designated for nedging)		
Interest rate risk Interest rate swap (KRW)	190,000	2,041	_	Derivative liabilities (designated for hedging)	1,690	
Foreign currency translation risk and interest rate risk Currency swap (USD)	270,000,000	17,909	_	Derivative liabilities (designated for hedging)	58,253	
Foreign currency translation risk						
Currency swap (USD)	180,000,000	17,836	_	Derivative liabilities (designated for hedging)	9,317	
Currency swap (EUR)	194,780,000	_	9,080	Derivative liabilities (designated for hedging)	(10,286)	
Hedges of net investment in foreign operations Exchange rate risk Foreign currency bond (USD)	864,390,437	_	1,095,442	Foreign currency bond	(28,553)	

(6) Details of carrying amount to hedge and amount due to hedge accounting are as follows (Unit: Korean Won in millions):

	December 31, 2021						
	,		Accumulated amount of fair value hedge adjustments on the hedged item included in the carrying amount of the hedged item		Line item in the statement of financial position in which the hedged item is	Changing in fair value used for calculating hedge	Cash flow hedge
	Assets	Liabilities	Assets	Liabilities	included	ineffectiveness	reserve (*)
Fair value hedge Interest rate risk Debentures Foreign currency borrowing	_	2,366,724	_	53,160	Debentures Foreign currency	100,343	_
		35,694			borrowings	(17)	(17)
Cash flow hedge Interest rate risk Debentures	_	49,977	_	_	Debentures	(1,760)	281
Foreign currencies translation risk and interest rate risk		,				· · · · · ·	
Debentures Foreign currencies translation risk	_	556,607	_	_	Debentures	(53,832)	5,859
Debentures	_	212,715	_	_	Debentures	(7,609)	(305)
(*) After tax amount				D 1 21	2022		
			Accumulate	December 31,			
	Carrying an	nount of the d item	value hedge the hedged i the carrying	d amount of fair adjustments on tem included in g amount of the ged item	Line item in the statement of financial position in which the hedged item is	Changing in fair value used for calculating hedge	Cash flow hedge
	Assets	Liabilities	Assets	Liabilities		ineffectiveness	reserve (*)
Fair value hedge Interest rate risk Debentures	_	3,076,983	_	(199,804)	Debentures	257,911	_
Cash flow hedge Interest rate risk Debentures Foreign currencies	_	229,892	_	_	Debentures	(3,742)	2,531
translation risk and interest rate risk Debentures Foreign currencies	_	342,019	_	_	Debentures	(23,296)	8,648
translation risk Debentures Hedges of net	_	752,901	_	_	Debentures	11,256	(24,600)
investment in foreign operations Exchange rate risk Foreign operations net asset	_	1,095,442	_	_	Foreign operations net asset	28,553	(38,797)

(\*) After tax amount

(7) Amounts recognized in profit or loss due to the ineffective portion of fair value hedges during the current period are as follows (Unit: Korean Won in millions):

		For the year ended December 31, 2020				
		Hedge ineffectiveness recognized in profit or loss	Line item in the profit or loss that includes hedge ineffectiveness			
Fair value hedge	Interest rate risk	(1,852)	Other net operating income (expense)			
		For the ye	ar ended December 31, 2021			
		Hedge ineffectiveness recognized in profit or loss	Line item in the profit or loss that includes hedge ineffectiveness			
Fair value hedge			Other net operating income			
	Interest rate risk	16,522	(expense)			
		For the ye	ar ended December 31, 2022			
		Hedge ineffectiveness recognized in profit or loss	Line item in the profit or loss that includes hedge ineffectiveness			
Fair value hedge			Other net operating income			
	Interest rate risk	10,146	(expense)			

(8) Reclassification of profit or loss from other comprehensive income and equity related to cash flow hedges are as follows (Unit: Korean Won in millions):

		For the year ended December 31, 2020					
		Changes in the value of hedging instruments recognized in OCI	Hedge ineffectiveness recognized in profit or loss	Changes in the value of foreign basis spread recognized in OCI	Line item recognized in the profit or loss	Amounts reclassified from cash flow hedge reserve to profit or loss	Line item affected in profit or loss due to reclassification
Cash flow hedge	Interest rate risk	(122)	(74)	_	Other net	_	Other net
					operating		operating
					income		income
					(expense)		(expense)
	Foreign currencies	(68,270)	(1,049)	5,893	Other net	64,762	Other net
	translation risk				operating		operating
	and interest rate				income		income
	risk				(expense)		(expense)
	Foreign currencies	(3,677)	(1,022)	320	Other net	5,393	Other net
	translation risk				operating		operating
					income		income
					(expense)		(expense)

For the year ended December 31, 2021	For the v	ear ended	December	31, 2021
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			roru	ie year ended	December 31	, 2021	
		Changes in the value of hedging instruments recognized in OCI	Hedge ineffectiveness recognized in profit or loss	Changes in the value of foreign basis spread recognized in OCI	Line item recognized in the profit or loss	Amounts reclassified from cash flow hedge reserve to profit or loss	Line item affected in profit or loss due to reclassification
Cash flow hedge					Other net operating		Other net operating
	Interest rate risk Foreign currencies	1,641	256	_	income (expense) Other net	_	income (expense) Other net
	translation risk and interest rate risk	60,394	169	(2,300)	operating income (expense)	(52,126)	operating income (expense)
	TISK	00,394	109	(2,300)	Other net operating	(32,120)	Other net operating
	Foreign currencies translation risk	8,476	(258)	416	income (expense)	(9,045)	income (expense)
			For th	ne veer ended	December 31	2022	
		Changes in the value of hedging instruments recognized in OCI	Hedge ineffectiveness recognized in profit or loss	Changes in the value of foreign basis spread recognized in OCI	Line item recognized in the profit or loss	Amounts reclassified from cash flow hedge reserve to profit or loss	Line item affected in profit or loss due to reclassification
Cash flow hedge		the value of hedging instruments recognized	Hedge ineffectiveness recognized in	Changes in the value of foreign basis spread recognized	Line item recognized in the profit or	Amounts reclassified from cash flow hedge reserve to profit or	affected in profit or loss due to
Cash flow hedge	Interest rate risk Foreign currencies translation risk	the value of hedging instruments recognized	Hedge ineffectiveness recognized in	Changes in the value of foreign basis spread recognized	Line item recognized in the profit or loss  Other net operating income (expense) Other net operating	Amounts reclassified from cash flow hedge reserve to profit or	affected in profit or loss due to reclassification  Other net operating income (expense) Other net operating
Cash flow hedge	Foreign currencies	the value of hedging instruments recognized in OCI	Hedge ineffectiveness recognized in profit or loss	Changes in the value of foreign basis spread recognized	Line item recognized in the profit or loss Other net operating income (expense) Other net	Amounts reclassified from cash flow hedge reserve to profit or loss	affected in profit or loss due to reclassification  Other net operating income (expense) Other net

(9) The amounts recognized in profit or loss and other comprehensive income related to the hedging of net investments in foreign operations are as follows (Unit: Korean Won in millions):

	For the year ended December 31, 2022					
		Profit or loss recognized in OCI	Hedge ineffectiveness recognized in profit or loss	Line item which recognized the hedge ineffectiveness		
Hedges of net investment in foreign	Exchange					
operation	rate risk	(38,797)	_	_		

#### 27. DEFERRED DAY 1 PROFITS OR LOSSES

Changes in deferred day 1 profits or losses are as follows (Unit: Korean Won in millions):

	For the years ended December 3		
	2020	2021	2022
Beginning balance	52,259	6,939	29,111
New transactions	22,901	49,523	21,656
Amounts recognized in losses	(68,221)	(27,351)	(32,803)
Ending balance	6,939	29,111	17,964

In case some variables to measure fair values of financial instruments are not observable in the market, valuation techniques are utilized to evaluate such financial instruments. Those financial instruments are recorded the transaction price as at the time of acquisition, even though there are difference noted between the transaction price and the fair value. The table above presents the difference yet to be realized as profit or losses.

#### 28. EQUITY

(1) Details of equity as of December 31, 2021 and 2022 are as follows (Unit: Korean Won in millions):

	<b>December 31, 2021</b>	<b>December 31, 2022</b>
Capital		
Common stock capital	3,640,303	3,640,303
Hybrid securities	2,294,381	3,112,449
Capital surplus		
Paid in capital in excess of par	643,544	643,544
Others	38,841	38,841
Sub-total	682,385	682,385
Capital adjustments		
Treasury stocks	(3,819)	(3,819)
Other adjustments (*1)	(1,747,242)	(1,780,367)
Sub-total	(1,751,061)	(1,784,186)
Accumulated other comprehensive income		
Financial assets at FVTOCI	(162,522)	(645,731)
Changes in capital due to equity method	(138)	475
Gain (loss) on foreign currency translation of foreign		
operations	(63,781)	(24,202)
Gain (loss) on hedges of net investment in foreign		
operations	_	(20,701)
Remeasurements of defined benefit plan	(195,944)	55,235
Gain (loss) on valuation of cash flow hedge	5,553	(4,282)
Capital related to non-current assets held for sale	279	
Sub-total	(416,553)	(639,206)
Retained earnings (*2) (*3)	21,347,472	23,750,152
Non-controlling interest (*4)	3,008,176	2,865,445
Total	28,805,103	31,627,342

<sup>(\*1)</sup> Included 178,060 million Won in capital transaction gains and losses recognized by Woori Bank and (formerly) Woori Financial Group in 2014 and 2,238,228 million Won due to the spin-off of Gyeongnam Bank and Gwangju Bank.

- (\*2) The regulatory reserve for credit losses in retained earnings amounted to 2,568,367 million Won and 2,996,960 million Won and as of December 31, 2021 and 2022, respectively in accordance with the relevant article
- (\*3) The earned surplus reserve in retained earnings amounted to 122,370 million Won and 181,860 million Won as of December 31, 2021 and 2022 in accordance with the Article 53 of the Financial Holding Company Act.
- (\*4) The hybrid securities issued by Woori Bank amounting to 2,555,166 million Won and 2,344,816 million Won as of December 31, 2021 and 2022, respectively, are recognized as non-controlling interests.

  144,923 million Won and 113,995 million Won of dividends for the hybrid securities issued by Woori Bank are allocated to net profit and loss of the non-controlling interests for the years ended December 31, 2021 and 2022, respectively.
- (2) The number of authorized shares and others of the Group are as follows:

	December 31, 2021	December 31, 2022
Shares of common stock authorized	4,000,000,000 Shares	4,000,000,000 Shares
Par value	5,000 Won	5,000 Won
Shares of common stock issued	728,060,549 Shares	728,060,549 Shares
Capital stock	3,640,303 million Won	3,640,303 million Won

#### (3) Hybrid securities

The bond-type hybrid securities classified as owner's equity are as follows (Unit: Korean Won in millions):

			Interest rate	December 31,	December 31,
	Issue date	Maturity	(%)	2021	2022
Securities in local currency	2019-07-18	_	3.49	500,000	500,000
Securities in local currency	2019-10-11	_	3.32	500,000	500,000
Securities in local currency	2020-02-06	_	3.34	400,000	400,000
Securities in local currency	2020-06-12	_	3.23	300,000	300,000
Securities in local currency	2020-10-23	_	3.00	200,000	200,000
Securities in local currency	2021-04-08	_	3.15	200,000	200,000
Securities in local currency	2021-10-14	_	3.60	200,000	200,000
Securities in local currency	2022-02-17	_	4.10	_	300,000
Securities in local currency	2022-07-28	_	4.99	_	300,000
Securities in local currency	2022-10-25	_	5.97	_	220,000
Issuance cost				(5,619)	(7,551)
Total				2,294,381	3,112,449

The hybrid securities mentioned above do not have maturity date but are redeemable after 5 years from date of issuance.

#### (4) Accumulated other comprehensive income

Changes in the accumulated other comprehensive income are as follows (Unit: Korean Won in millions):

		For the ye	ear ended Decembe	er 31, 2020		
	Beginning balance	Increase (decrease) (*)	Reclassification adjustments	Classified as held for sale	Income tax effect	Ending balance
Net gain (loss) on valuation of financial assets at FVTOCI	(71,914)	115,167	(30,643)	_	(22,443)	(9,833)
Changes in capital due to equity method	915	(3,171)	_	(1,691)	1,338	(2,609)
Gain (loss) on foreign currency translation of foreign						
operations	(152,987)	(152,486)	_	_	7,110	(298,363)
to defined benefit plan	(270,977)	13,492	_	_	(3,710)	(261,195)
Gain (loss) on valuation of derivatives designated as cash						
flow hedges	(5,692)	4,568	_	_	(262)	(1,386)
Capital related to noncurrent assets held for sale	_	_	_	1,691	(465)	1,226
Total	(500,655)	(22,430)	(30,643)		(18,432)	(572,160)

<sup>(\*)</sup> The increase and decrease of financial asset valuation profit or loss at fair value through other comprehensive income is a change due to the period evaluation and the reclassification adjustments amounting to 2,664 million Won are due to disposal of equity securities during the period.

For the year ended December 31, 2021					
Beginning balance	Increase (decrease)(*)	Reclassification adjustments	Income tax effect	Ending balance	
(9,833)	(174,113)	(32,624)	54,048	(162,522)	
(2,609)	3,885	_	(1,414)	(138)	
(298,363)	239,614		(5,032)	(63,781)	
(261,195)	90,337	_	(25,086)	(195,944)	
(1,386)	6,416	1,221	(698)	5,553	
1,226	(1,306)		359	279	
(572,160)	164,833	(31,403)	22,177	(416,553)	
	(9,833) (2,609) (298,363) (261,195) (1,386) 1,226	Beginning balance         Increase (decrease)(*)           (9,833)         (174,113)           (2,609)         3,885           (298,363)         239,614           (261,195)         90,337           (1,386)         6,416           1,226         (1,306)	Beginning balance         Increase (decrease)(*)         Reclassification adjustments           (9,833)         (174,113)         (32,624)           (2,609)         3,885         —           (298,363)         239,614         —           (261,195)         90,337         —           (1,386)         6,416         1,221           1,226         (1,306)         —	Beginning balance         Increase (decrease)(*)         Reclassification adjustments         Income tax effect           (9,833)         (174,113)         (32,624)         54,048           (2,609)         3,885         —         (1,414)           (298,363)         239,614         —         (5,032)           (261,195)         90,337         —         (25,086)           (1,386)         6,416         1,221         (698)           1,226         (1,306)         —         359	

<sup>(\*)</sup> The increase(decrease) of financial asset valuation profit or loss at fair value through other comprehensive income and non-current assets held for sale are changes due to the period evaluation, and the reclassification adjustments amounting to (2,220) million Won, 946 million Won and (947) million Won are due to disposal of equity securities, equity method investments and non-current assets held for sale, respectively during the period.

	For the year ended December 31, 2022				
	Beginning balance	Increase (decrease) (*)	Reclassification adjustments	Income tax effect	Ending balance
Net gain (loss) on valuation of financial assets at					
FVTOCI	(162,522)	(659,906)	21,498	155,199	(645,731)
Changes in capital due to equity method	(138)	6,563	_	(5,950)	475
Gain (loss) on foreign currency translation of					
foreign operations	(63,781)	33,368	_	6,211	(24,202)
Gain (loss) on hedges of net investment in foreign					
operations		(28,553)	_	7,852	(20,701)
Remeasurement gain (loss) related to defined					
benefit plan	(195,944)	346,553	_	(95,374)	55,235
Gain (loss) on valuation of cash flow hedge	5,553	(10,373)	(220)	758	(4,282)
Capital related to non-current assets held for					
sale	279	(385)		106	
Total	(416,553)	(312,733)	21,278	68,802	(639,206)

For the year anded December 21, 2022

#### (5) Treasury stock

Details of treasury stocks are as follows (Unit: Shares, Korean Won in millions):

	December 31, 2021		December 31, 2022	
	Number of shares	Carrying amount	Number of shares	Carrying amount
Beginning balance	2	_	343,991	3,819
Acquisition	343,989	3,819		
Ending balance	343,991	3,819	343,991	3,819

#### 29. DIVIDENDS

- (1) Dividends per share and the total dividends for the fiscal year ending December 31, 2021 were 750 Won and 546,044 million Won, respectively, and the dividends were approved at the regular general shareholders' meeting held on March 25, 2022 and were paid in April 2022.
- (2) On July 22, 2022, in accordance with a resolution of the Board of Directors, the Group declared the interim dividend of 150 Won per share (total dividend of 109,209 million Won) with June 30, 2022 as base date, and the dividends were paid in August 2022.
- (3) A dividend in respect of the year ended December 31, 2022, of 980 Won per share, amounting to a total dividend of 713,497 million Won, was approved by shareholders at the annual general meeting on March 24, 2023. These financial statements do not include this dividend payable.

<sup>(\*)</sup> The increase(decrease) of financial asset valuation profit or loss at fair value through other comprehensive income and non-current assets held for sale are changes due to the period evaluation, and the reclassification adjustments amounting to (10,254) million Won and 279 million Won are due to disposal of equity securities and non-current assets held for sale, respectively during the period.

# 30. NET INTEREST INCOME

(1) Interest income recognized is as follows (Unit: Korean Won in millions):

	For the years ended December 31			
	2020	2021	2022	
Financial assets at FVTPL	48,612	45,803	106,698	
Financial assets at FVTOCI	437,527	381,814	632,615	
Financial assets at amortized cost				
Loans and other financial assets at amortized cost				
Interest on due from banks	53,586	46,600	244,331	
Interest on loans	8,570,173	9,065,074	13,109,022	
Interest of other receivables	30,967	30,538	46,637	
Sub-total	8,654,726	9,142,212	13,399,990	
Securities at amortized cost	382,988	324,920	515,246	
Sub-total	9,037,714	9,467,132	13,915,236	
Total	9,523,853	9,894,749	14,654,549	

(2) Details of interest expense recognized are as follows (Unit: Korean Won in millions):

	For the years ended December 31			
	2020	2020 2021		
Interest on deposits due to customers	2,486,523	1,906,858	4,120,811	
Interest on borrowings	269,985	219,994	598,185	
Interest on debentures	722,551	727,093	1,036,191	
Other interest expense	36,964	47,647	195,090	
Interest on lease liabilities	9,318	7,436	7,693	
Total	3,525,341	2,909,028	5,957,970	

# 31. NET FEES AND COMMISSIONS INCOME

(1) Details of fees and commissions income recognized are as follows (Unit: Korean Won in millions):

	For the years ended December 31			
	2020	2021	2022	
Fees and commission received for brokerage	162,653	182,794	185,545	
Fees and commission received related to credit	195,391	197,125	189,856	
Fees and commission received for electronic finance	125,107	131,941	130,712	
Fees and commission received on foreign exchange handling	55,984	56,210	56,812	
Fees and commission received on foreign exchange	69,017	73,894	96,713	
Fees and commission received for guarantee	74,647	76,428	85,340	
Fees and commission received on credit card	507,852	573,048	594,897	
Fees and commission received on securities business	79,606	100,991	111,211	
Fees and commission from trust management	160,564	216,203	266,447	
Fees and commission received on credit information	13,254	10,220	10,190	
Fees and commission received related to lease	84,164	374,900	572,563	
Other fees	165,777	177,951	199,414	
Total	1,694,016	2,171,705	2,499,700	

(2) Details of fees and commissions expense incurred are as follows (Unit: Korean Won in millions):

	For the years ended December 31			
	2020	2022		
Fees and commissions paid	246,824	261,734	325,536	
Credit card commission	424,316	425,796	446,885	
Securities business commission	551	1,605	1,414	
Others	8,286	11,795	15,695	
Total	679,977	700,930	789,530	

#### 32. DIVIDEND INCOME

(1) Details of dividend income recognized are as follows (Unit: Korean Won in millions):

	For the years ended December 31			
	2020	2021	2022	
Dividend income related to financial assets at FVTPL	120,158	284,683	136,136	
Dividend income related to financial assets at FVTOCI	18,385	24,528	23,846	
Total	138,543	309,211	159,982	

(2) Details of dividends related to financial assets at FVTOCI are as follows (Unit: Korean Won in millions):

	For the years ended December 31			
	2020	2021	2022	
Dividend income recognized from assets held:				
Equity securities	18,385	24,528	23,846	

# 33. NET GAIN OR LOSS ON FINANCIAL INSTRUMENTS AT FAIR VALUE THROUGH PROFIT OR LOSS MANDATORILY MEASURED AT FAIR VALUE

(1) Details of gains or losses related to net gain or loss on financial instruments at FVTPL are as follows (Unit: Korean Won in millions):

For the years ended December 31			
2020 2021		2022	
422,374	325,649	238,502	
(665)	102		
421,709	325,751	238,502	
	2020 422,374 (665)	2020         2021           422,374         325,649           (665)         102	

(2) Details of net gain or loss on financial instruments at fair value through profit or loss measured at fair value and financial instruments held for trading are as follows (Unit: Korean Won in millions):

			For the years ended December 31		
			2020	2021	2022
Financial assets at FVTPL	Securities	Gain on transactions and valuation	142,551	249,803	294,667
		valuation	(122,506)	(197,172)	(553,093)
		Sub-total	20,045	52,631	(258,426)
	Loans	Gain on transactions and valuation	15,299	24,674	24,005
		valuation	(8,087)	(6,770)	(2,219)
		Sub-total	7,212	17,904	21,786
	Other financial assets	Gain on transactions and valuation Loss on transactions and	10,902	17,034	21,602
		valuation	(10,257)	(12,370)	(12,314)
		Sub-total	645	4,664	9,288
	Sub-total		27,902	75,199	(227,352)
Derivatives (Held for trading)	Interest rates derivatives	Gain on transactions and valuation	1,727,585	2,020,004	5,216,543
		valuation	(1,998,824)	(1,746,752)	(3,625,834)
		Sub-total	(271,239)	273,252	1,590,709
	Currency derivatives	Gain on transactions and valuation Loss on transactions and	12,562,354	9,685,798	14,601,674
		valuation	(11,906,353)	(9,715,260)	(15,713,074)
		Sub-total	656,001	(29,462)	(1,111,400)
	Equity derivatives	Gain on transactions and valuation	1,835,497	1,754,671	2,836,843
		valuation	(1,825,372)	(1,744,294)	(2,850,334)
		Sub-total	10,125	10,377	(13,491)
	Other derivatives	Gain on transactions and valuation Loss on transactions and		64	49
		valuation	(415)	(3,781)	(13)
		Sub-total	(415)	(3,717)	36
	Sub-total		394,472	250,450	465,854
	Net, Total .	• • • • • • • • • • • • • • • • • • • •	422,374	325,649	238,502

(3) Details of net gain (loss) on financial instruments at fair value through profit or loss designated as upon initial recognition are as follows (Unit: Korean Won in millions):

	For the years ended December 31			<u>,1                                    </u>
	2020	2021	2022	
Gain (loss) on equity-linked securities	(665)	102	_	

#### 34. NET GAIN OR LOSS ON FINANCIAL ASSETS AT FVTOCI

Details of net gain or loss on financial assets at FVTOCI recognized are as follows (Unit: Korean Won in millions):

	For the years ended December 31		
	2020	2021	2022
Loss on redemption of securities	(57)	(23)	(7)
Gain (Loss) on transaction of securities	24,195	32,647	(21,491)
Total	24,138	32,624	(21,498)

# 35. REVERSAL OF (PROVISION FOR) IMPAIRMENT LOSSES DUE TO CREDIT LOSS

Reversal of (provision for) impairment losses due to credit loss are as follows (Unit: Korean Won in millions):

	For the years ended December 31		
	2020	2021	2022
Reversal(provision) due to credit loss on financial assets measured at			
FVTOCI	(1,529)	(4,909)	827
Provision for impairment loss due to credit loss on securities at amortized			
cost	934	(664)	(3,151)
Provision for impairment loss due to credit loss on loan and other financial			
assets at amortized cost	(792,250)	(551,957)	(881,668)
Provision for(reversal of) provision on guarantee	18,348	10,701	(7,611)
Reversal of(provision for) unused loan commitment	(9,874)	9,991	6,332
Total	<u>(784,371)</u>	(536,838)	(885,271)

# 36. GENERAL AND ADMINISTRATIVE EXPENSES AND OTHER NET OPERATING INCOME (EXPENSES)

(1) Details of general and administrative expenses recognized are as follows (Unit: Korean Won in millions):

			For the y	ears ended Dec	ember 31
			2020	2021	2022
Employee benefits	Short-term employee				
	benefits	Salaries	1,638,341	1,775,018	1,980,363
		Employee			
		fringe benefits	506,048	545,534	590,255
	Share based payment	C	7,495	17,774	9,632
	Retirement benefit				
	service costs		178,455	181,797	169,303
	Termination		202,259	180,872	162,019
	Sub-total		2,532,598	2,700,995	2,911,572
Depreciation and					
amortization			520,969	524,154	521,827
Other general and					
administrative expenses	Rent		78,707	83,879	80,130
	Taxes and public dues		129,904	135,015	157,905
	Service charges		244,825	231,852	233,495
	Computer and IT related		108,810	117,875	127,186
	Telephone and communic	cation	72,711	79,145	84,204
	Operating promotion		45,891	44,248	53,733
	Advertising		94,880	101,384	160,464
	Printing		6,954	6,449	6,799
	Traveling		7,263	7,449	10,716
	Supplies		12,127	7,642	8,309
	Insurance premium		10,805	10,692	20,670
	Maintenance		18,367	20,808	23,266
	Water, light, and heating		14,993	14,520	16,165
	Vehicle maintenance		10,225	11,590	14,831
	Others		46,152	49,714	98,618
	Sub-total		902,614	922,262	1,096,491
Total			3,956,181	4,147,411	4,529,890

(2) Details of other operating income recognized are as follows (Unit: Korean Won in millions):

	For the years ended December 31		
	2020	2021	2022
Gain on transactions of foreign exchange	758,347	562,935	1,403,083
Gain related to derivatives (Designated for hedging)	67,395	61,271	71,179
Gain on fair value hedged items	9,646	106,253	257,910
Others	63,702	172,044	249,509
Total	899,090	902,503	1,981,681

# (3) Details of other operating expenses recognized are as follows (Unit: Korean Won in millions):

	For the years ended December 31		
	2020	2021	2022
Losses on transactions of foreign exchange	679,350	450,698	1,181,663
KDIC deposit insurance premium	371,054	406,276	423,834
Contribution to miscellaneous funds	327,911	367,961	402,057
Losses related to derivatives (Designated for hedging)	82,746	93,084	250,268
Losses on fair value hedged items	68,508	1,947	
Others (*)	189,959	469,938	736,112
Total	1,719,528	1,789,904	2,993,934

<sup>(\*)</sup> Other expense includes 11,890 million Won, 13,963 million Won and 14,664 million Won for intangible asset amortization cost for the years ended December 31, 2020, 2021 and 2022 respectively. In addition, it includes 52,504 million Won, 250,971 million Won and 388,895 million Won for lease depreciation cost for the years ended December 31, 2020, 2021 and 2022, respectively.

#### (4) Share-based payment

Details of performance condition share-based payment granted to executives as of December 31, 2021 and 2022 are as follows.

### 1) Performance condition share-based payment

Subject to		Shares granted for the year 2019
Type of payment		Cash-settled
Vesting period		January 1, 2019 ~ December 31,
		2022
Date of payment		2023-01-01
Fair value (*1)		12,406 Won
Valuation method		Black-Scholes Model
Expected dividend rate		5.05%
Expected maturity date		_
Number of shares remaining	As of December 31, 2021	602,474 shares
_	As of December 31, 2022	602,474 shares
Number of shares granted (*2)	As of December 31, 2021	602,474 shares
-	As of December 31, 2022	602,474 shares
Subject to		Shares granted for the year 2020
Type of payment		Cash-settled
Vesting period		January 1, 2020 ~ December 31,
		2023
Date of payment		2024-01-01
Fair value (*1)		11,796 Won
Valuation method		Black-Scholes Model
Expected dividend rate		5.05%
Expected maturity date		1 year
Number of shares remaining	As of December 31, 2021	944,343 shares
	As of December 31, 2022	944,343 shares
Number of shares granted (*2)	As of December 31, 2021	944,343 shares
, and the second	As of December 31, 2022	944,343 shares
Subject to		Shares granted for the year 2021

Type of payment		Cash-settled
Vesting period		January 1, 2021 ~ December 31,
		2024
Date of payment		2025-01-01
Fair value (*1)		11,215 Won
Valuation method		Black-Scholes Model
Expected dividend rate		5.05%
Expected maturity date		2 years
Number of shares remaining	As of December 31, 2021	1,105,515 shares
	As of December 31, 2022	1,105,515 shares
Number of shares granted (*2)	As of December 31, 2021	1,105,515 shares
	As of December 31, 2022	1,105,515 shares
Subject to		Shares granted for the year 2022
Type of payment		Cash-settled
Vesting period		January 1, 2022 ~ December 31,
		2025
Date of payment		2026-01-01
Fair value (*1)		10,662 Won
Valuation method		Black-Scholes Model
Expected dividend rate		5.05%
Expected maturity date		3 years
Number of shares remaining	As of December 31, 2021	_
	As of December 31, 2022	968,119 shares
Number of shares granted (*2)	As of December 31, 2021	_
	As of December 31, 2022	968,119 shares

<sup>(\*1)</sup> As the amount of payment varies according to the base price (the arithmetic average of the weighted average stock price of transactions in the past one week, the past one month, and the past two months) at the date of payment, the fair value is calculated to measure the liability according to the Black Scholes model based on the base price at the time of each settlement.

<sup>(\*2)</sup> It is a system in which the amount of stock payable is determined at the beginning, and the payment rate is determined in accordance with the degree of achievement of the pre-set performance target. Performance is evaluated by long-term performance indicators such as relative shareholder return, net profit, return on equity (ROE), non-performing loan ratio, and job performance.

<sup>2)</sup> The Group accounts for performance condition share-based payments according to the cash-settled method and the fair value of the liabilities is reflected in the compensation costs by re-measuring every closing period. As of December 31, 2021 and 2022, the carrying amount of the liabilities related to the performance condition share-based payments recognized by the Group amounts to 31,597 million Won and 41,334 million Won, respectively, including the carrying amount of liabilities related to key management of 13,319 million Won and 17,494 million Won, respectively.

#### **37. NON-OPERATING INCOME (EXPENSES)**

(1) Details of gains or losses on valuation of investments in joint ventures and associates are as follows (Unit: Korean Won in millions):

For the years ended December 31	
21	2022
268	98,858
744	_
405)	(11,134)
411)	(17,728)
196	69,996
,,,,,	,268 ,744

(2) Details of other non-operating income and expenses recognized are as follows (Unit: Korean Won in millions):

	For the years ended December 31		
	2020	2021	2022
Other non-operating incomes	133,195	188,129	158,778
Other non-operating expenses	(313,415)	(223,029)	(111,728)
Total	(180,220)	(34,900)	47,050

(3) Details of other non-operating income recognized are as follows (Unit: Korean Won in millions):

	For the years ended December 31		
	2020	2021	2022
Rental fee income	15,190	15,056	22,798
Gains on disposal of investments in joint ventures and associates	3,470	70,834	599
Gains on disposal of premises and equipment, intangible assets and other			
assets	9,715	51,083	55,852
Reversal of impairment loss of premises and equipment, intangible assets and			
other assets	172	166	310
Others (*)	104,648	50,990	79,219
Total	133,195	188,129	158,778

<sup>(\*)</sup> Others include 67,427 million Won of profit from bargain purchase and 46,536 million Won of other special gain related to other provisions for the years ended December 31, 2020 and 2022, respectively.

(4) Details of other non-operating expenses recognized are as follows (Unit: Korean Won in millions):

	For the years ended December 31		ecember 31
	2020	2021	2022
Depreciation on investment properties	2,689	2,809	3,925
Operating expenses on investment properties	762	1,174	1,448
Losses on disposal of investment in			
joint ventures and associates	_	174	3,690
Losses on disposal of premises and equipment,			
intangible assets and other assets	2,717	3,354	3,177
Impairment losses of premises and equipment,			
intangible assets and other assets	8,763	656	260
Donation	44,504	39,335	50,547
Others (*)	253,980	175,527	48,681
Total	313,415	223,029	111,728

<sup>(\*)</sup> Others include 224,427 million Won and 75,921 million Won of other extraordinary losses related to other provisions for the years ended December 31, 2020 and 2021, respectively. And they include 62,196 million Won of other extraordinary loss related to embezzlement accidents for the years ended December 31, 2021. Also, they include 18,458 million Won of other extraordinary loss related to other provisions for the year ended December 31, 2022.

#### 38. INCOME TAX EXPENSE

(1) Details of income tax expenses are as follows (Unit: Korean Won in millions):

	For the years ended December 31		
	2020	2021	2022
Current tax expense			
Current tax expense with respect to the current period	501,223	884,843	1,332,636
of prior periods	4,914	2,074	(13,982)
Income tax expense directly attributable to other equity			7,852
Sub-total	506,137	886,917	1,326,506
Deferred tax expense			
Change in deferred tax assets (liabilities) due to temporary differences	(1,702)	15,672	(217,805)
Income tax expense (income) directly attributable to equity	(18,433)	22,177	68,802
Others			993
Sub-total	(20,135)	37,849	(148,010)
Income tax expense	486,002	924,766	1,178,496

(2) Income tax expense reconciled to net income before income tax expense is as follows (Unit: Korean Won in millions):

	For the years ended December 31		
	2020	2021	2022
Net income before income tax expense	2,001,251	3,687,045	4,547,570
Tax calculated at statutory tax rate (*)	514,456	942,991	1,171,389
Adjustments:			
Effect of income that is exempt from taxation	(42,440)	(41,335)	(73,488)
Effect of expenses that are not deductible in determining taxable			
income	19,451	18,933	26,793
Adjustments recognized in the current period in relation to the current			
tax of prior periods	4,914	3,078	(14,088)
Others	(10,379)	1,099	67,890
Sub-total	(28,454)	(18,225)	7,107
Income tax expense	486,002	924,766	1,178,496
Effective tax rate	24.30%	25.10%	25.90%

<sup>(\*)</sup> The applicable income tax rate: % up to 200 million Won in tax basis, 22% over 200 million Won to 20 billion Won, 24.2% over 20 billion Won to 300 billion Won and 27.5% over 300 billion Won.

(3) Changes in deferred tax assets and liabilities for the years ended December 31, 2020, 2021 and 2022, are as follows (Unit: Korean Won in millions):

		For the year ended December 31, 2020			
	Beginning balance	Business combination	Recognized as income (expense)	Recognized as other comprehensive income (expense)	Ending Balance
Gain (loss) on financial assets	278,352	2,243	19,121	(23,221)	276,495
Gain on valuation using the equity method of accounting	10,713	_	21,499	1,385	33,597
Gain (loss) on valuation of derivatives	(75,412)	675	(67,423)	(192)	(142,352)
Accrued income	(66,384)	(4,392)	4,548	_	(66,228)
Provision for loan losses	(52,711)	2,201	4,015	_	(46,495)
Loan and receivables written off	6,893		1,328	_	8,221
Loan origination costs and fees	(162,442)	(14,131)	6,377	_	(170,196)
Defined benefit liability	396,302	7,923	41,186	(3,404)	442,007
Deposits with employee retirement insurance trust	(381,776)	(6,369)	(36,858)	97	(424,906)
Provision for guarantee	7,915	3,441	(1,871)	_	9,485
Other provision	88,456		(3,283)	_	85,173
Others (*)	(144,684)	(12,678)	31,494	6,904	(118,964)
Net deferred tax assets	(94,778)	(21,087)	20,133	(18,431)	<u>(114,163)</u>

<sup>(\*)</sup> Among the deferred tax assets and liabilities classified as 'Others,' the deferred tax asset arising from unused tax losses amounts to 24,059 million Won.

For the year ended December 31, 2021 Recognized as other Recognized comprehensive Ending Beginning as income income balance (expense) (expense) Balance Gain (loss) on financial assets ...... 276,495 (57,187)54,048 273,356 Gain on valuation using the equity method of accounting . . . . 33,597 (17,282)15,260 (1,055)(142,352)(6,755)(698)(149,805)Accrued income ..... (66,228)(16,254)(82,482)(46,495)11,870 (34,625)Loan and receivables written off ...... 8,221 23 8,244 Loan origination costs and fees ...... (170,196)(24,267)(194,463)Defined benefit liability ..... 442,007 32,890 (25,282)449,615 Deposits with employee retirement insurance trust ...... (424,906)(7,291)196 (432,001)(2,061)9,485 7,424 85,173 15,398 100,571 (5,032)(118,964)24,193 (99,803)(114,163)(46,723)22,177 (138,709)

<sup>(\*)</sup> Among the deferred tax assets and liabilities classified as 'Others,' the deferred tax asset arising from unused tax losses amounts to 8,838 million Won.

	For the year ended December 31, 2022				
	Beginning balance	Business combination	Recognized as income (expense)	Recognized as other comprehensive income (expense)	Ending Balance
Gain (loss) on financial assets	273,356	_	(55,410)	155,199	373,145
Gain on valuation using the equity method of					
accounting	15,260	_	11,139	(5,844)	20,555
Gain (loss) on valuation of derivatives	(149,805)	_	159,664	758	10,617
Accrued income	(82,482)	_	(7,848)	_	(90,330)
Provision for loan losses	(34,625)	_	14,520	_	(20,105)
Loan and receivables written off	8,244	_	(318)	_	7,926
Loan origination costs and fees	(194,463)	_	25,370	_	(169,093)
Defined benefit liability	449,615	_	15,760	(95,590)	369,785
Deposits with employee retirement insurance					
trust	(432,001)	_	(18,437)	216	(450,222)
Provision for guarantee	7,424	_	904	_	8,328
Other provision	100,571	_	(13,342)	_	87,229
Others (*)	(99,803)	(1,473)	16,878	14,063	(70,335)
Net deferred tax assets	(138,709)	(1,473)	148,880	68,802	77,500

<sup>(\*)</sup> Among the deferred tax assets and liabilities classified as 'Others,' the deferred tax asset arising from unused tax losses amounts to 3,536 million Won.

(4) Unrealizable temporary differences are as follows (Unit: Korean Won in millions):

	December 31, 2021	December 31, 2022
Deductible temporary differences	303,067	330,376
Tax loss carry forward	63,908	49,405
Taxable temporary differences	(8,025,672)	(8,898,834)
Total	(7,658,697)	(8,519,053)

No deferred income tax asset has been recognized for the deductible temporary difference of 325,601 million Won associated with investments in subsidiaries as of December 31, 2022, because it is not probable that the temporary differences will be reversed in the foreseeable future 4,775 million Won associated with others, respectively, as of December 31, 2022, due to the uncertainty that these will be realized in the future.

No deferred income tax liability has been recognized for the taxable temporary difference of 8,898,835 million Won associated with investment in subsidiaries as of December 31, 2022, due to the following reasons:

- The Group is able to control the timing of the reversal of the temporary difference.
- It is probable that the temporary difference will not be reversed in the foreseeable future.

As of December 31, 2022, the expected extinctive date of tax loss carry forward that are not recognized as deferred tax assets are as follows (Unit: Korean Won in millions):

	1 year or less	<u>1 –2 years</u>	2 –3 years	More than 3 years
Tax loss carry forward	36,967	10,828	_	1,610

(5) Details of accumulated deferred tax charged directly to other equity are as follows (Unit: Korean Won in millions):

	December 31, 2021	December 31, 2022
Gain on valuation of financial assets at FVTOCI	58,677	213,876
Gain on valuation of equity method investments	2,078	(3,766)
Gain on foreign currency translation of foreign operations	5,689	9,938
Gain on valuation of hedge accounting of the net investment in foreign operations	_	9,815
Remeasurements of the net defined benefit liability	74,790	(20,584)
Gain on derivatives designated as cash flow hedge	(843)	(86)
Total	140,391	209,193

(6) Current tax assets and liabilities are as follows (Unit: Korean Won in millions):

	December 31, 2021	December 31, 2022
Current tax assets	22,598	53,274
Current tax liabilities	584,491	843,555

# 39. EARNINGS PER SHARE ("EPS")

(1) Basic EPS is calculated by dividing net income attributable to common shareholders by weighted-average number of common shares outstanding (Unit: Korean Won in millions, except for EPS and number of shares):

	For the years ended December 31		ember 31
	2020	2021	2022
Net income attributable to common shareholders	1,307,266	2,542,844	3,186,772
Dividends to hybrid securities	(48,915)	(66,250)	(91,756)
Net income attributable to common shareholders	1,258,351	2,476,594	3,095,016
Weighted average number of common shares outstanding (Unit: million			
shares)	722	724	728
Basic EPS (Unit: Korean Won)	1,742	3,419	4,251

(2) The weighted average number of common shares outstanding is as follows (Unit: number of shares, days):

	For the year ended December 31, 2021			
	Period	Number of shares	Dates (Unit: Day)	Accumulated number of shares outstanding during period
Common shares issued at the				
beginning of the period	2021-01-01 ~ 2021-12-31	722,267,683	365	263,627,704,295
Treasury stocks	2021-01-01 ~ 2021-12-31	(2)	365	(730)
Issuance of new shares (comprehensive share	2021 00 10 2021 12 21	5.700.077	144	024 172 704
exchange)	2021-08-10 ~ 2021-12-31	5,792,866	144	834,172,704
stocks	2021-08-10 ~ 2021-12-31	(343,989)	144	(49,534,416)
	Sub-total (①)			264,412,341,853
Weighted average number of cor	nmon shares outstanding (@=(	①/365)		724,417,375

For the year ended December 31, 2022 Accumulated **Dates** number of shares Number of (Unit: outstanding during Period Day) period Common shares issued at the beginning of the period ... 2022-01-01 ~ 2022-12-31 728,060,549 365 265,742,100,385  $2022-01-01 \sim 2022-12-31$ Treasury stocks ..... (343,991)365 (125,556,715)265,616,543,670 Weighted average number of common shares outstanding (2=(1)/365) ..... 727,716,558

Diluted EPS is equal to basic EPS because there is no dilution effect for the years ended December 31, 2021 and 2022.

#### 40. CONTINGENT LIABILITIES AND COMMITMENTS

(1) Details of guarantees are as follows (Unit: Korean Won in millions):

	<b>December 31, 2021</b>	<b>December 31, 2022</b>
Confirmed guarantees		
Guarantee for loans	38,897	39,684
Acceptances	622,758	501,921
Guarantees in acceptances of imported goods	111,195	97,920
Other confirmed guarantees	7,215,557	6,847,713
Sub-total	7,988,407	7,487,238
Unconfirmed guarantees		
Local letters of credit	243,072	150,075
Letters of credit	3,186,513	3,014,228
Other unconfirmed guarantees	778,088	1,144,498
Sub-total	4,207,673	4,308,801
Commercial paper purchase commitments and others	791,729	125,547
Total	12,987,809	11,921,586

<sup>(\*)</sup> Includes financial guarantees of 3,960,383 million Won and 3,095,091 million Won as of December 31, 2021 and December 31, 2022, respectively.

(2) Details of unused loan commitments and others are as follows (Unit: Korean Won in millions):

	,	December 31, 2022
Loan commitments	114,414,462	118,172,070
Other commitments (*)	5,652,557	7,107,828

<sup>(\*)</sup> As of December 31, 2021 and 2022, the amount of unsecured bills (purchase note sales) and discounts on electronic short-term bond sales (purchase) are 2,225,226 million Won and 2,505,399 million Won, respectively.

#### (3) Litigation case

Litigation case that the key Group is a defendant in a lawsuit pending (excluding fraud lawsuits and those lawsuits that are filed only to extend the statute of limitation, etc.) are 475 cases (litigation value of 578,505 million Won) and 531 cases (litigation value of 577,128 million Won) as of December 31, 2021 and 2022 respectively, and provisions for litigations are 24,823 million Won and 33,877 million Won.

#### (4) Other commitments

- 1) The Group decided to enter into a stock sales agreement with a major shareholder of Woori Asset Trust Co., Ltd. (formerly, Kukje Asset Trust Co., Ltd.) to acquire 44.5% of interest (58.6% of voting rights) in July 2019, and to acquire additional 21.3% of interest (28.0% of voting rights) after a certain period. As a result, the Group acquired the interest of the first sales agreement in December 2019 and acquired the second transaction stake on March 31, 2023. In regard to this acquisition, the Group recognized 174,780 million Won as other financial liabilities for the second sales agreement.
- 2) As of December 31, 2022, Woori Asset Trust Co., Ltd., a subsidiary, has agreed to carry out construction completion obligations for 87 constructions, which includes the construction of residential and commercial complexes in Busan (U-dong, Haeundae-gu). Land Trust responsible for Construction

and Management is a trust that bears the obligation to fulfill the responsibility of the constructor and to compensate the loan financial institution for damages if the Group fails to fulfill the construction completion obligation. As of December 31, 2022, the total PF loan amount of PF loan institutions invested in the project of the Land Trust responsible for Construction and Management is 3,607,592 million Won. Although additional losses may occur in relation to the construction completion obligations, the financial statements as of December 31, 2022 do not reflect these effects since losses are unlikely and the amount cannot be estimated reliably.

- 3) Pursuant to some contracts related to asset securitization, the Group utilizes various prerequisites as triggering events causing early redemption, limiting risks that investors bear due to change in asset quality. Breach of such triggering clause leads to an early redemption of the securitized bonds.
- 4) As of December 31, 2022, Woori Asset Trust Co., Ltd, a subsidiary, is able to borrow part of its total business expense related to its 13 development trust contracts including Boutique Terrace Haeundae Hotel from trust accounts, and the maximum amount of additional loan amount (unused loan commitment) is 52,783 million Won. In relation to those projects, the Group's trust accounts loan is not unconditional payment obligation, and it would be judged by considering all related matters such as its own account and the fund balance plan for each trust projects.

#### 41. RELATED PARTY TRANSACTIONS

Related parties of the Group as of December 31, 2021 and 2022, and assets and liabilities recognized, guarantees and commitments, major transactions with related parties and compensation to key management for the years ended December 31, 2021 and 2022 are as follows. Please refer to Note 13 for the details of joint ventures and associates.

(1) Assets and liabilities from transactions with related parties are as follows (Unit: Korean Won in millions):

	Related parties	Account title	December 31, 2021	December 31, 2022
Associates	W Service Networks Co., Ltd.	Loans	20	120
		Deposits due to customers	2,832	3,298
		Accrued expenses	6	7
		Other liabilities	425	109
	Korea Credit Bureau Co., Ltd.	Loans	2	2
		Deposits due to customers	1,557	4,450
		Other liabilities	_	40
	Korea Finance Security Co., Ltd.	Loans	3,425	3,433
		Loss allowance	(6)	(46)
		Deposits due to customers	1,887	1,764
		Other liabilities	2	6
	LOTTE CARD Co. Ltd.	Loans	3,750	50,000
		Account receivables	_	16
		Loss allowance	(39)	(30)
		Other assets	10	_
		Deposits due to customers	13,482	35,986
		Other liabilities	91	74
	K BANK Co., Ltd.	Loans	99	3
		Account receivables	29	31
		Other liabilities	84,935	108,156

Related parties	Account title	December 31, 2021	December 31, 2022
Others (*1)	Loans	73,940	68,660
	Loss allowance	(124)	(34)
	Other assets	739	768
	Deposits due to customers	1,063	3,622
	Other liabilities	3	119

<sup>(\*1)</sup> Others include IBK KIP Seongjang Dideemdol 1st Private Investment Limited Partnership, Woori Growth Partnerships New Technology Private Equity Fund, Partner One Value Up I Private Equity Fund, and etc., as of December 31, 2021 and 2022.

(2) Gain or loss from transactions with related parties are as follows (Unit: Korean Won in millions):

				ne years ecember	
	Related parties	Account title	2020	2021	2022
Associates	W Service Network Co., Ltd.	Other income	32	30	
		Interest expenses	13	7	14
		Fees expenses	525	612	543
		Reversal of allowance for credit			
		losses	(4)	_	_
		Other expenses	2,174	1,878	1,907
	Korea Credit Bureau Co., Ltd.	Interest expenses	5	4	40
		Fees expenses	3,155	3,503	3,730
		Other expenses	_	68	139
	Korea Finance Security Co., Ltd.	Interest income	70	80	141
		Interest expenses	3	2	3
		Provision of allowance for credit			
		losses	3	1	44
		Other expenses	100	92	52
	Chin Hung International Inc.	Interest expenses	19	_	_
		Reversal of allowance for credit losses	(145)	_	_
	LOTTE CARD Co., Ltd.	Interest income	311	196	83
	,	Fees income	2,748	10,248	7,701
		Interest expenses	68	462	1,902
		Provision (Reversal) of allowance for			
		credit losses	171	(59)	(27)
	K BANK Co., Ltd.	Fees income	1,763	1,952	698
		Fees expenses		636	937
	Well to Sea No.3 Private Equity Fund	Interest income	1,883	_	_
		Interest expenses	5	_	_
		Reversal of allowance for credit loss	(55)	_	_
	Others (*1)	Interest income	_	679	713
		Fees income	,	5,546	7,138
		Dividends income	52	_	_
		Other income	16	_	
		Interest expenses	28	17	10
		Provision of allowance for credit loss	_	2	92
		Provision of impairment losses due to			
		credit loss	_	_	1

<sup>(\*1)</sup> Others include Woori Growth Partnerships New Technology Private Equity Fund, Partner One Value Up I Private Equity Fund, and etc., as of December 31, 2020, 2021 and 2022.

(3) Major loan transactions with related parties for the years ended December 31, 2020, 2021 and 2022 are as follows (Unit: Korean Won in millions):

		For the year ended December 31, 2020			31, 2020
	Related parties	Beginning balance		Collection	Ending balance (*)
Associates	W Service Network Co., Ltd	23	337	339	21
	Korea Credit Bureau Co., Ltd	3	17	19	1
	Korea Finance Security Co., Ltd	1,860	2,133	553	3,440
	LOTTE CARD Co., Ltd	7,500	_	_	7,500
	K BANK Co., Ltd.	141	1,942	1,979	104
	Well to Sea No. 3 Private Equity Fund	4,490	_	4,490	_

(\*) Payments that occurred for business reasons among related parties are excluded and net increase or decrease was used for limited credit loan

		For the year ended December 31, 2021			021	
	Related parties	Beginning balance	Loan	Collection	Others	Ending balance (*)
Associates	W Service Network Co., Ltd	21	248	249		20
	Korea Credit Bureau Co., Ltd	1	11	10	_	2
	Korea Finance Security Co., Ltd	3,440	333	348	_	3,425
	LOTTE CARD Co., Ltd	7,500	_	3,750	_	3,750
	K BANK Co., Ltd	104	1,769	1,774	_	99
	Godo Kaisha Oceanos 1	44,036	_	_	(1,003)	43,033
	Woori Zip 1	_	13,121	_	(346)	12,775
	Woori Zip 2	_	18,624	_	(492)	18,132

(\*) Payments that occurred for business reasons among related parties are excluded and net increase or decrease was used for limited credit loan.

		For the year ended December 31, 2022			2022	
	Related parties	Beginning balance	Loan	Collection	Others	Ending balance (*)
Associates	W Service Network Co., Ltd	20	352	252	_	120
	Korea Credit Bureau Co., Ltd	2	15	15	_	2
	Korea Finance Security Co., Ltd	3,425	2,407	2,399	_	3,433
	LOTTE CARD Co., Ltd	3,750	50,000	3,750	_	50,000
	K BANK Co., Ltd	99	315	411	_	3
	Godo Kaisha Oceanos 1	43,033	41,467	43,033	(1,653)	39,814
	Woori Zip 1	12,775	_	_	(956)	11,819
	Woori Zip 2	18,132	_	_	(1,356)	16,776
	Central Network Solutions Co., Ltd	_	251	_	_	251

(\*) Payments that occurred for business reasons among related parties are excluded and net increase or decrease was used for limited credit loan.

(4) Details of changes in major deposits due to customers with related parties for the years ended December 31, 2020, 2021 and 2022 are as follows (Unit: Korean Won in millions):

		For the	year ended	l December :	31, 2020
	Related parties	Beginning balance	Increase	Decrease	Ending balance (*)
Associates	W Service Networks Co., Ltd	1,180	1,180	1,180	1,180
	Chin Hung International Inc	400	_	400	_
	Partner One Value Up I Private Equity Fund	1,150	1,737	2,024	863
	Korea Credit Bureau Co., Ltd.	_	1,000	_	1,000

(\*) Details of payment between related parties, demand deposit due to customers and etc. are excluded.

		For the year ended December 31, 2021			
	Related parties	Beginning balance	Increase	Decrease	Ending balance (*)
Associates	W Service Networks Co., Ltd	1,180	1,180	1,180	1,180
	Partner One Value Up I Private Equity Fund	863	637	1,171	329
	Korea Credit Bureau Co., Ltd.	1,000	_	1,000	_

(\*) Details of payment between related parties, demand deposit due to customers and etc. are excluded.

		For the	e year ended	l December :	31, 2022
	Related parties	Beginning balance	Increase	Decrease	Ending balance (*)
Associates	W Service Networks Co., Ltd	1,180	1,200	1,180	1,200
	Partner One Value Up I Private Equity Fund	329	550	779	100
	Korea Credit Bureau Co., Ltd.	_	3,000	_	3,000

(\*) Details of payment between related parties, demand deposit due to customers and etc. are excluded.

(5) There are no major borrowing transactions with related parties for the years ended December 31, 2021 and 2022.

(6) Guarantees provided to the related parties are as follows (Unit: Korean Won in millions):

Warrantee	<b>December 31, 2021</b>	<b>December 31, 2022</b>	Warranty
Korea Finance Security Co., Ltd	835	627	Unused loan commitment
Korea Credit Bureau Co., Ltd	33	33	Unused loan commitment
W Service Network Co., Ltd	180	60	Unused loan commitment
K BANK Co., Ltd	201	297	Unused loan commitment
LOTTE CARD Co. Ltd	500,000	450,000	Unused loan commitment
D-Custody Co., Ltd		10	Unused loan commitment

As of December 31, 2021 and 2022, the recognized payment guarantee provisions are 93 million Won and 80 million Won, respectively, in relation to the guarantees provided to the related parties above.

## (7) Amount of commitments with the related parties

Warrantee	December 31, 2021	<b>December 31, 2022</b>	Warranty
IBK KIP Seongjang Dideemdol 1st Private			Securities purchase
Investment Limited Partnership	4,664	4,664	commitment
WooriG Senior Loan General Type Private			Securities purchase
Investment Trust No.1	14,284	_	commitment
Woori Seoul Beltway Private Special Asset Fund			Securities purchase
No.1	39,458	37,146	commitment
Woori-Q Corporate Restructuring Private Equity			Securities purchase
Fund	11,109	12,555	commitment
Union Technology Finance Investment			Securities purchase
Association	2,250	_	commitment
Genesis Eco No.1 Private Equity Fund			Securities purchase
	195	_	commitment
Genesis Environmental Energy Company 1st			Securities purchase
Private Equity Fund	916	_	commitment
JC Assurance No.2 Private Equity Fund			Securities purchase
	1,351	1,351	commitment
Crevisse Raim Impact 1st Startup Venture			Securities purchase
Specialist Private Equity Fund	425	325	commitment
WooriG Oncorp Corporate support of Major			
Industry General Type Private Investment			Securities purchase
Trust (Type 2)	669	39	commitment
BTS 2nd Private Equity Fund			Securities purchase
an	_	6,974	commitment
STASSETS FUND III			Securities purchase
	_	13,500	commitment
Together Korea Government Private Securities			Securities purchase
Investment Trust No.3	_	990,000	commitment

## (8) Major investment and Recovery transactions

The details of major investment and recovery transactions with related parties for the year ended December 31, 2021 and 2022 are as follows (Unit: Korean Won in millions):

	For the year ended December 31, 2021	
Related parties	Investment and others (*)	Recovery and others (*)
Woori China Mainland Stock Securities Investment Trust	_	568
Woori Long-term government bond securities Investment Trust No.1	2,000	_
Woori New MMF No.3	_	20,105
Woori Multi-Return Securities Investment Trust 1	8,000	_
Woori Multi-Return Securities Investment Trust 2 (Balanced Bond)	8,000	
Woori Short term Plus Securities Investment Trust	200	_
Woori Smart New Deal 30 Target Conversion Securities Investment trust No.3	200	_
Woori Smart Balance Securities Investment Trust (Stock)	500	_
Woori ACE Public Offering stock Alpha Securities Investment Trust (Bond Mixed) WooriG Oncorp Corporate support of Major Industry General Type Private Investment	200	_
Trust (Type 2)	831	_
WooriG Public Offering stock 10 securities Investment Trust [Bond mixed] C(F)	_	1,064
WooriG IGIS Securities Investment Trust [Bond] C(F)	_	1,306

<sup>(\*)</sup> Investment and recovery transactions of associates are described in Note 13.(2)

	For the year ended December 31, 2022	
Related parties	Investment and others (*)	Recovery and others (*)
Woori High Plus Short-term High Graded ESG Bond Sec Feeder Inv Trust 1		21,606
Woori High Plus Bond Sec Feeder Inv Trust 3(USD)		1,052
Woori BANKPLUS IPO 10 FEEDER FUND 2(BALANCED BOND)	200	_
Woori Two-year Bond Securities Investment Trust 2(Bond)	_	213
Woori China Mainland Stock Securities Investment Trust H(Securities)		443
Woori Long-term government bond securities Investment Trust No.1		1,951
Woori Republic of Korea Treasury Bond Active ETF(Bond)	3,000	_
Woori K-New Opening Target Return Securities Investment Trust(Equity)	200	_
Woori 2023 Maturity Securities Investment Trust(Bond)	200	_
Woori 2024 Maturity Securities Investment Trust 1(Bond)	200	_
Woori BIG SATISFACTION SHINJONG MMF 3RD	320,000	_
Woori MULTI RETURN PRIVATE EQUITY 1	_	8,559
Woori 2024 December Maturity Securities Investment Trust 1(Bond)	200	_
Woori Two-year Bond Securities Investment Trust 3(Bond)	_	209
Woori G Oncorp Corporate support of Major Industry General Type Private Investment		
Trust (Type 2)	630	_

<sup>(\*)</sup> Investment and recovery transactions of associates are described in Note 13.(2)

## (9) Compensation for key management is as follows (Unit: Korean Won in millions):

	For the years ended December 31		
	2020	2021	2022
Short-term employee salaries	22,778	20,742	21,990
Retirement benefit service costs	910	815	937
Share-based compensation	3,519	6,970	4,234
Total	27,207	28,527	27,161

Key management includes executives and directors of Woori Financial Group and major subsidiaries, and also includes CEO of other subsidiaries. Outstanding assets from transactions with key management amount to 3,821 million Won and 3,620 million Won, as of December 31, 2021 and 2022 respectively and with respect to the assets, the Group has not recognized any allowance nor related impairment loss due to credit losses. Also, liabilities from transaction with key management amount to 11,542 million Won and 12,660 million Won, respectively, as of December 31, 2021 and 2022.

## 42. LEASES

## (1) Lessor

## 1) Finance lease

① The total investment in finance lease and the present value of the minimum lease payments to be recovered are as follows (Unit: Korean Won in millions):

December 31, 2021	
Total investment in lease	Net investment in lease
70,740	69,030
133,398	124,904
239,895	218,911
367,991	331,685
486,490	429,034
2	1
1,298,516	1,173,565
	70,740 133,398 239,895 367,991 486,490 2

	December 31, 2022	
	Total investment in lease	Net investment in lease
Within one year	160,181	146,749
After one year but within two years	231,075	215,497
After two years but within three years	366,599	338,709
After three years but within four years	501,034	452,099
After four years but within five years	368,420	314,696
After five years	19	18
Total	1,627,328	1,467,768

② The unrealized interest income of the finance lease is as follows (Unit: Korean Won in millions):

	December 31, 2021	December 31, 2022
Total investment in lease	1,298,516	1,627,328
Net investment in lease	1,173,565	1,467,768
Present value of minimum lease payments	1,173,565	1,467,768
Present value of unguaranteed residual value		
Unearned interest income	124,951	159,560

## 2) Operating lease

① The details of operating lease assets are as follows (Unit: Korean Won in millions):

	<b>December 31, 2021</b>	<b>December 31, 2022</b>
Prepaid lease assets	4,579	3,121
Operating lease assets		
Acquisition cost	2,299,968	3,320,275
Accumulated depreciation	(521,660)	(729,818)
Net carrying value	1,778,308	2,590,457
Total	1,782,887	2,593,578

2 The details of changes in operating lease assets as of December 31, 2022 are as follows and there is no details of changes in operating lease assets as of December 31, 2021 (Unit: Korean Won in millions)

	<u>December 31, 2021</u>	<b>December 31, 2022</b>
Beginning balance	1,116,175	1,778,308
Acquisition	984,093	1,321,251
Disposal	(93,138)	(138,189)
Depreciation	(250,971)	(388,895)
Others	22,149	17,982
Ending balance	1,778,308	2,590,457

The future lease payments to be received under the lease contracts are as follows (Unit: Korean Won in millions):

	<b>December 31, 2021</b>	<b>December 31, 2022</b>
Within one year	377,153	567,998
After one year but within two years	347,539	526,899
After two years but within three years	262,176	420,244
After three years but within four years	170,391	275,080
After four years but within five years	79,555	86,606
Total	1,236,814	1,876,827

There is no adjusted lease payments recognized as profit or loss for the years ended December 31, 2021 and 2022.

#### (2) Lessee

1) The future lease payments under the lease contracts are as follows (Unit: Korean Won in millions):

	<b>December 31, 2021</b>	<b>December 31, 2022</b>
Lease payments		
Within one year	151,259	170,781
After one year but within five years	155,707	152,145
After five years	38,275	33,007
Total	345,241	355,933

2) Total cash outflows from lease are as follows (Unit: Korean Won in millions):

	December 31	
	2021	2022
Total cash outflows from lease	180,884	192,540

3) Details of lease payments that are not included in the measurement of lease liabilities due to the fact that they are short-term leases or leases for which the underlying asset is low value are as follows (Unit: Korean Won in millions):

	For the years ended December 31	
	2021	2022
Lease payments for short-term leases	1,598	1,469
Lease payments for which the underlying asset is of low value	1,488	1,316
Total	3,086	2,785

Variable lease payments that were not included in the measurement of lease liabilities for the years ended December 31, 2022 were 5,470 million Won.

(3) The Group uses a practical expedient that does not assess whether it is a lease change to the rend discount incurred directly as a result of COVID-19. Accordingly, the amount recognized in profit or loss during the reporting period is 15,880 million Won, to reflect changes in lease payments arising from the rent concession.

#### 43. BUSINESS COMBINATION

The Group acquired 2,193,552,006 shares, equivalent to 82.03% of the total issued shares of PT Batavia Prosperindo Finance Tbk, an Indonesian listed company, of 2,673,995,362 shares on August 31, 2022 as the acquisition date for the purpose of entering the local financial industry in Indonesia, and changed its name to PT Woori Finance Indonesia Tbk.

1) As of the acquisition date, the transfer price, acquisition assets, liabilities, and non-controlling interests related to the business combination are as follows (Unit: Korean Won in millions):

	Amount
Fair value of transfer price	
Cash	130,424
Amount recognized as assets and liabilities	
Cash and cash equivalents	5,607
Financial assets at amortized cost	95,587
Other assets	24,096
Borrowings	25,932
Other liabilities	10,150
Fair value of identifiable net assets	89,208
Non-controlling interests (*1)	16,453
Goodwill	57,670

<sup>(\*1)</sup> Represents amount of a proportionate interest of the fair value of indentifiable net assets.

2) Assuming that the acquisition date of PT Woori Finance Indonesia Tbk by the Group is the commencement date of the financial statements, the consolidated income and consolidated net income are KRW 1,856,941 million and KRW 207,495 million, respectively.

#### 44. EVENTS AFTER THE REPORTING PERIOD

On February 27, 2023, the Group signed a stock sale contract to acquire a 52% stake in Daol Investment Co., Ltd. for 212.5 billion Won and, the Group changed its name to Woori Venture Partners Co., Ltd. and incorporated it as a subsidiary on March 23, 2023.

#### ARTICLES OF INCORPORATION

#### CHAPTER I. GENERAL PROVISIONS

#### **Article 1.** (Corporate Name)

The name of this company is "Chusik Hoesa Woori Geumyungjiju" (the "Company"), which shall be "Woori Financial Group Inc." in English.

## Article 2. (Objective)

The objectives of the Company shall be to engage in the following business activities, which are acquisition and ownership of shares or interests in companies engaging in the financial business or business closely related to it; controlling or administrating business of subsidiaries (referring to companies as defined in the Financial Holding Companies Act including subsidiaries, second-tier subsidiaries and companies controlled by second-tier subsidiaries; hereinafter the same shall apply); and any other businesses incidental thereto:

- 1. Business administration activities:
  - A. to establish business goals and approve business plans of subsidiaries;
  - B. to evaluate business performance and determine compensation of subsidiaries;
  - C. to determine corporate governance structure of subsidiaries;
  - D. to examine the businesses and asset status of subsidiaries;
  - E. to perform internal control and risk management of subsidiaries; and
  - F. to perform any businesses incidental to Items A through E.
- 2. Businesses incidental to business administration:
  - A. to financially support subsidiaries;
  - B. to make capital contribution to a subsidiary or to raise funds for financial support to subsidiaries;
  - C. to provide support for the development and sales of financial products of subsidiaries and other resources necessary for the business of subsidiaries;
  - D. to conduct any business entrusted from subsidiaries in order to support the business of subsidiaries including IT, legal and accounting, etc.; and
  - E. Any other businesses for which license, permit or approval is not required by the law.
- 3. Other businesses permitted under laws and regulations;
- 4. Businesses incidental or relating to the above.

#### **Article 3.** (Location of Head Office and Establishment of Branches)

- (1) The head office of the Company shall be located in Seoul.
- (2) The Company may establish branches, branch offices, business offices and subsidiaries in and outside of Korea by a resolution of the Board of Directors, as it deems necessary.

#### Article 4. (Method of Public Notices)

Public notices of the Company shall be made on the website of the Company (www.woorifg.com); provided, that if such public notice on its website cannot be made due to a computer malfunction or any other unavoidable reason, public notice of the Company shall be made in *The Seoul Shinmun* and *The Maeil Business News*, daily newspapers published in Seoul.

## CHAPTER II. SHARES

#### **Article 5.** (Total Number of Shares Authorized to be Issued)

The total number of shares authorized to be issued by the Company shall be 4,000,000,000 shares.

#### **Article 6.** (Per Share Value)

The par value of each share to be issued by the Company shall be KRW 5,000.

#### **Article 7.** (Total Number of Shares to be Issued upon Incorporation)

The total number of shares to be issued by the Company upon its incorporation shall be 680,164,306 shares.

#### Article 8. (Classes of Shares)

- (1) Shares to be issued by the Company shall be common shares and class shares.
- (2) Class shares to be issued by the Company shall be class shares entitled to profit dividends, class shares without voting rights, convertible shares, redeemable shares, and shares incorporating all or some of the foregoing.
- (3) Notwithstanding Articles 10 through 10-5, the number of class shares without voting rights to be issued by the Company shall not exceed one-half (1/2) of the total number of issued and outstanding shares.

#### Article 9. (Electronic Registration of Rights to be Indicated on Share and Warrant Certificates)

The Company shall electronically register the rights to be indicated on its share certificates and warrant certificates on the electronic registrar of the electronic registration agency, in lieu of issuing share certificates and warrant certificates.

#### **Article 10.** (Perpetual Preferred Shares)

- (1) 1st Class Shares to be issued by the Company shall be non-voting perpetual preferred shares ("Class Shares" in this Article), which shall be issued by a resolution of the Board of Directors. The total number of Class Shares to be issued shall not exceed one-half (1/2) of the total number of issued and outstanding shares of the Company.
- (2) At the time of issuance of the Class Shares, the Board of Directors shall determine the terms and conditions of the Class Shares including dividend ratio(at no less than one percent (1%) p.a., based on the par value), the type of assets to be distributed, methods of determining the value of such assets and conditions for the distribution of profits. In case any Class Shares for which preferential dividend ratio may be adjusted are issued, the Board of Directors shall determine additional terms and conditions of the Class Shares including the preferential dividend ratio is subject to change, reasons for adjustment, base date for adjustment and adjustment methods.

- (3) Class Shares to be issued by the Company may be either participating or non-participating, or either cumulative or non-cumulative, which shall be decided by a resolution of the Board of Directors.
- (4) If there is a resolution not to pay any prescribed dividends on Class Shares, Class Shares shall be deemed to have voting rights from the time of the next following General Shareholders' Meeting until the close of any General Shareholders' Meeting in which a resolution is adopted to distribute preferential dividends on Class Shares.
- (5) If the Company issues new shares, new share allotment for Class Shares shall be made with the shares as same as those allotted to common shares in the case of capital increase for consideration and/or stock dividends, and with the same Class Shares in the case of capital increase without consideration, in which case the allotment ratio shall be as same as the stock allotment ratio applicable to common shares.

#### **Article 10-2. (Redeemable Preferred Shares)**

- (1) 2<sup>nd</sup> Class Shares to be issued by the Company shall be non-voting redeemable preferred shares ("Class Shares" in this article), which shall be issued by a resolution of the Board of Directors. Class Shares shall be retired with the profits and the number of Class Shares to be issued shall not exceed one-half (1/2) of the total number of issued and outstanding shares of the Company.
- (2) With respect to Class Shares' preferred dividend, participating or cumulative nature, revival of voting rights upon non-dividend, class of shares to be allotted upon new share issuance and allotment ratio, Articles 10(2) through (5) shall apply *mutatis mutandis* thereto.
- (3) Class Shares to be redeemable at the option of the Company may be issued by a resolution of the Board of Directors, in which case such share may be redeemed at the option of the Company by a resolution of the Board of Directors based on the followings:
  - 1. Redemption period shall be within the period from the day immediately following the close of an ordinary General Meeting of Shareholders for the fiscal year to which the issuance date belongs to the day for which one (1) month has passed after the close of an ordinary General Meeting of Shareholders for the fiscal year to which the fiftieth (50th) anniversary of the issuance date belongs, as determined by the Board of Directors; provided, that the Company may redeem all or a part of the redeemable shares prior to the redemption period pursuant to applicable laws and regulations by a resolution of the Board of Directors;
  - 2. The Company may redeem all of Class Shares on a lump sum basis or in installments; provided, that in case of a redemption in installments, Class Shares may be determined by the Company by lot or on a prorated basis, and any fractional shares arising from such proration shall not be redeemed;
  - 3. In case the Company redeems Class Shares, such redemption shall be made within three (3) months from the date of approval for a draft statement of appropriation of retained earnings at an ordinary General Meeting of Shareholders;
  - 4. Redemption price shall be determined by the Board of Directors which resolves the issuance of Class Shares from among par value, market value upon redemption, issue price, and the issue price plus the amount calculated by considering dividend rate, market status and other various circumstances relating to the issuance of redeemable shares;
  - 5. With respect to Class Shares that must be redeemed on the last day of the redemption period, if the preferential dividends has not been completed or if the redemption has not been made due to lack of profits of the Company, the redemption period shall be extended up until the reason for such failure is solved:
  - 6. The Company shall notify the acquisition of redeemable shares to shareholders of such shares and right holders stated in the shareholders' registry at least two (2) weeks prior to the date of acquisition.

- (4) The Company may, by a resolution of the Board of Directors, issue Class Shares redeemable upon shareholders' request, in which case shareholders may request for redemption to the Company based on the followings:
  - 1. With respect to the redemption request period, Paragraph (3), Item 1 shall apply *mutatis mutandis* thereto; provided, that "redemption period" under Paragraph (3), Item 1 shall be deemed as "redemption request period";
  - 2. With respect to the approval for a draft statement of appropriation of retained earnings, Paragraph (3), Item 3 shall apply *mutatis mutandis* thereto;
  - 3. With respect to the redemption price, Paragraph (3), Item 4 shall apply *mutatis mutandis* thereto;
  - 4. With respect to the redemption extension, Paragraph (3), Item 5 shall apply *mutatis mutandis* thereto; provided, that "redemption period" under Paragraph (3), Item 5 shall be deemed as "redemption request period";
  - 5. Shareholders may request for the Company to redeem all the Class Shares on a lump sum basis or in installments; provided, that the Company redeem the shares in installments if it lacks distributable profits at the time of the redemption request, and in case of redemption in installments, the Company may determine the shares to be redeemed by lots or by means of proration, and shall not redeem any fractional shares arising from such proration;
  - 6. Shareholders requesting for redemption shall notify the Company its intention to redeem and the shares to be redeemed at least two (2) weeks prior to the date set for the redemption.

## **Article 10-3. (Convertible Preferred Shares)**

- (1) 3rd Class Shares to be issued by the Company shall be non-voting convertible preferred shares ("Class Shares" in this article), which shall be issued by a resolution of the Board of Directors. Class Shares shall be granted of rights to be converted into common shares or other class shares and the number of Class Shares to be issued shall not exceed one-half (1/2) of the total number of issued and outstanding shares of the Company.
- (2) With respect to Class Shares' preferred dividend, participating or cumulative nature, revival of voting rights upon non-dividend, class of shares to be allotted upon new share issuance and allotment ratio, Articles 10(2) through (5) shall apply *mutatis mutandis* thereto; provided, that in case of any conversion ratio adjustment pursuant to the proviso of Paragraph (3), Item 1, allotment ratio in case of capital increase for consideration and/or stock dividend shall be subject to the conversion ratio at the time of such adjustment.
- (3) The Company may convert Class Shares or shareholders holding Class Shares may request for a conversion of such shares to the Company based on the following:
  - 1. The issue price of any new shares to be issued by conversion shall be the issue price of such shares before conversion, and the number of shares to be issued by conversion shall be as same as that of before the conversion; provided, that the conversion ratio may be adjusted pursuant to the provisions on anti-dilution as determined by the Board of Directors at the time of issuance within the scope of laws and regulations considering the reasonable shareholder right anti-dilution practices;
  - 2. The period for conversion or request for conversion shall be determined by a resolution of the Board of Directors with the scope of no less than one (1) year but within ten (10) years from the issue date;
  - 3. Shares to be issued by a conversion shall be common shares or other class shares.
- (4) Class Shares may be converted to common shares in the case of any item under Article 21 Paragraph (3) (for the purposes of this Paragraph, "convertible contingent capital securities" shall be deemed to be "Class Shares.").

#### **Article 10-4. (Redeemable Convertible Preferred Shares)**

- (1) 4th Class Shares to be issued by the Company shall be non-voting redeemable convertible preferred shares ("Class Shares" in this article), which shall be issued by a resolution of the Board of Directors. Class Shares shall be retired with the profits, granted with rights to be converted into common shares or other class shares, and the number of Class Shares to be issued shall not exceed one-half (1/2) of the total number of issued and outstanding shares of the Company.
- (2) With respect to lass Shares' preferred dividend, participating or cumulative nature, revival of voting rights upon non-dividend, class of shares to be allotted upon new share issuance and allotment ratio, Articles 10(2) through (5) shall apply *mutatis mutandis* thereto; provided, that in case of any conversion ratio adjustment pursuant to the proviso of Article 10-3(3)1, allotment ratio in case of capital increase for consideration and/ or stock dividend shall be subject to the conversion ratio at the time of such adjustment.
- (3) With respect to a redemption of Class Shares, Articles 10-2(3) or (4) shall apply mutatis mutandis thereto.
- (4) With respect to a conversion of Class Shares, Article 10-3(3) shall apply *mutatis mutandis* thereto.
- (5) <Deleted>

## **Article 10-5. (Term Convertible Preferred Shares)**

- (1) 5th Class Shares to be issued by the Company shall be non-voting term convertible preferred shares ("Class Shares" in this article), which shall be issued by a resolution of the Board of Directors. The number of Class Shares to be issued shall not exceed one-half (1/2) of the total number of issued and outstanding shares of the Company.
- (2) With respect to Class Shares' preferred dividend, participating or cumulative nature, revival of voting rights upon non-dividend, class of shares to be allotted upon new share issuance and allotment ratio, Articles 10(2) through (5) shall apply *mutatis mutandis* thereto; provided, that in case of any conversion ratio adjustment pursuant to the proviso of Article 10-3(3)1, allotment ratio in case of capital increase for consideration and/ or stock dividend shall be subject to the conversion ratio at the time of such adjustment.
- (3) The term of Class Shares shall be determined by a resolution of the Board of Directors upon issuance within the period range for no less than one (1) year but no more than fifty (50) years from issuance, and simultaneously upon expiry of the term, such shares shall be converted into common shares in the same number; provided, that in case of any cumulative Class Shares, if any prescribed dividend failed to be made during the above period, the relevant term may be extended until completion of the prescribe dividend, and the conversion ratio may be adjusted pursuant to the proviso of Article 10-3(3)1.
- (4) <Deleted>

## **Article 11.** (Preemptive Rights)

- (1) The issuance of new shares by the Company by a resolution of the Board of Directors shall be as follows:
  - 1. By granting the existing shareholders an opportunity to subscribe for new shares to be issued by the Company in proportion to their respective shareholdings;
  - 2. By granting certain persons (including the shareholders of the Company) (such as foreign investors, domestic and foreign financial institutions, institutional investors, allied companies, investment companies, management-participating type private equity funds and investment-purpose companies) an opportunity to subscribe for new shares to be issued by the Company, in a manner other than is set forth in Item 1 above, as deemed necessary to achieve the Company's management objectives (including, but not limited to, introduction of new technology, improvement of the financial structure of the Company or its subsidiaries, etc., funding, and strategic business alliance), up to 50/100 of the total issued and outstanding shares of the Company; and

- 3. By granting a large number of unspecified persons (including shareholders of the Company) an opportunity to subscribe for new shares to be issued by the Company, in a manner other than as set forth in Item 1 above, up to 50/100 of the total issued and outstanding shares of the Company, and allotting new shares to such persons who so subscribe.
- (2) If new shares are allotted under Item 3 of Paragraph (1) above, new shares shall be allotted by any of the following methods by a resolution of the Board of Directors:
  - 1. Allotting new shares to a large number of unspecified persons who subscribe, without classifying the types of persons who are granted the opportunity to subscribe, for new shares to be issued by the Company;
  - 2. Allotting new shares to members of the Employee Stock Ownership Association pursuant to applicable laws and granting a large number of unspecified persons an opportunity to subscribe for new shares, including those which had not been subscribed for;
  - 3. Granting the existing shareholders the opportunity to preferentially subscribe for new shares to be issued by the Company and granting a large number of unspecified persons the opportunity to be allotted new shares which had not been subscribed for; and
  - 4. Granting certain types of persons an opportunity to subscribe for new shares to be issued by the Company, in accordance with reasonable standards set forth in applicable laws, such as book building by an investment dealer or investment broker as underwriter or arranger.
- (3) In allotting new shares under Items 2 or 3 of Paragraph (1) above, the Company shall give an individual notice to the shareholders or make a public notice of the matters prescribed under Article 416, Items 1, 2, 2-2, 3 and 4 of the Korean Commercial Code (the "KCC"), at least two (2) weeks prior to the due date for payment of the new shares; provided, that in lieu of such individual notice or public notice, a report of material matters may be publicly disclosed to the Financial Services Commission and the Korea Exchange pursuant to the Financial Investment Services and Capital Markets Act.
- (4) In the event of issuance of new shares by any of methods set forth in Paragraph (1) above, the type and number of shares to be issued and the issue price shall be determined by a resolution of the Board of Directors.
- (5) If the allotted new shares are not subscribed for, or the subscription price therefor is not paid, by the specified due date, such unsubscribed or unpaid shares shall be disposed of by a resolution of the Board of Directors, in accordance with the relevant laws, including taking into account the appropriateness of issue price.
- (6) Fractional shares, if any, resulting from the allocation of new shares shall be disposed of by a resolution of the Board of Directors.
- (7) In the event of allocation of new shares under Item 1 of Paragraph (1) above, the Company shall issue certificates of the warrants to the shareholders.

#### Article 12. (Stock Options)

- (1) The Company may, by a special resolution of the General Meeting of Shareholders, grant to its employees (including the officers and employees of its related companies under Article 30 of the Enforcement Decree of the KCC; same hereinafter in this Article) stock options pursuant to the KCC and other applicable laws, up to 15/100 of the total number of issued and outstanding shares of the Company; provided, that such stock options may be granted to persons other than Directors of the Company, by a resolution of the Board of Directors, up to 1/100 of the total number of issued and outstanding shares of the Company, subject to approval by the first General Meeting of Shareholders held after date of grant of such stock options.
- (2) The persons who are entitled to receive stock options shall be officers and employees under Paragraph (1) above who have contributed, or are capable of contributing, to the establishment, management, technological innovations, etc. of the Company, except for persons who are ineligible for stock options under the relevant provisions of the KCC.

- (3) The exercise price per share for the stock option shall be as set forth in the KCC and other applicable laws. This shall also apply in the case of adjustment of the exercise price after the grant of the stock option.
- (4) The shares (if the difference between the exercise price of the options and the market price of the shares is paid for in cash or treasury shares, the shares shall mean the shares on which the calculation for such difference is based) to be transferred upon the exercise of the stock option shall be common shares.
- (5) With respect to the resolution of the General Meeting of Shareholders or the Board of Directors regarding the stock options under Paragraph (1), each of the following shall be determined:
  - 1. Name of the grantee of the stock options;
  - 2. Method of granting the stock options;
  - 3. Matters relating to the exercise price of the stock options and adjustment thereof;
  - 4. Exercise period of the stock options; and
  - 5. For each grantee, the type and number of shares to be issued or transferred upon exercise of the stock options.
- (6) Stock options may be exercised within seven (7) years from the second (2<sup>nd</sup>) anniversary of the date of the resolution of the General Meeting of Shareholders or the Board of Directors granting the same.
- (7) The grantee of stock options may only exercise the stock options after he or she has served for two (2) years or longer after the date of the resolution of the General Meeting of Shareholders or the Board of Directors under Paragraph (1) above; provided, that the grantee may exercise the stock options during the exercise period thereof if, within two (2) years following the date of the resolution of the General Meeting of Shareholders or the Board of Directors under Paragraph (1) above, such person dies or resigns for reasons not attributable to the grantee.
- (8) In any of the following instances, the Company may, by a resolution of the Board of Directors, cancel stock options granted:
  - 1. When the relevant grantee voluntarily resigns from his/her position at the Company after receiving the stock options;
  - 2. When the relevant grantee inflicts material damage or loss on the Company intentionally or negligently;
  - 3. When the Company is unable to respond to the exercise of stock options due to its bankruptcy, etc.; or
  - 4. When there occurs any other event for cancellation of the stock options pursuant to the stock option agreement executed with the relevant grantee.
- (9) The Company may grant stock options on a performance-based basis, and any exercise of such stock options may be cancelled or put on hold if the relevant performance goal is not achieved.
- (10) <Deleted>

#### **Article 13. (Equal Dividends)**

The Company shall pay equal dividends for the same type of shares (including converted shares) outstanding as of the dividend record date, regardless of the issuance date of such shares

## **Article 14.** (Title Transfer Agent)

- (1) The Company shall have a transfer agent for its shares.
- (2) The transfer agent, its office and the scope of its duties shall be determined by a resolution of the Board of Directors and a public notice shall be made in respect thereof.

- (3) The Company's registry of shareholders or a copy shall be kept at the office of the transfer agent. The Company shall cause the transfer agent to handle the electronic registration of shares, the management of the registry of shareholders and other matters related to shares.
- (4) The relevant procedures for the activities referred to in Paragraph (3) above shall be carried out in accordance with the internal regulations applicable to transfer agents.

## **Article 15.** (Request for Register of Shareholders)

The Company may request the electronic registration agency to prepare a register of shareholders if needed, such as when there has been a change in the status of a shareholder (including specially related persons) holding 5% or more of the Company's shares.

#### **Article 16.** (Record Date)

- (1) The shareholders registered in the shareholders' registry as of December 31 of each year shall be entitled to exercise their rights as shareholders at an ordinary General Meeting of Shareholders.
- (2) The Company may, if necessary for convening an extraordinary General Meeting of Shareholders or for any other necessary reason, deem the shareholders listed on the shareholder's registry on a certain day determined by a resolution of the Board of Directors as shareholders entitled to exercise shareholders' rights. The Company shall give a notice thereof to the public at least two (2) weeks prior to the date determined by the Board of Directors.

## CHAPTER III. BONDS

#### **Article 17.** (Issuance of Bonds)

- (1) The Company may issue bonds by a resolution of the Board of Directors.
- (2) The Board of Directors may delegate to the Representative Director the issuance of bonds within a period not exceeding one (1) year, by designating the amount and types of the bonds to be issued.
- (3) <Deleted>

#### **Article 18.** (Issuance of Convertible Bonds)

- (1) The Company may, in any of the following cases, issue convertible bonds to persons other than existing shareholders of the Company, by a resolution of the Board of Directors, up to a total face value of KRW 2 trillion:
  - 1. By granting certain persons (including the shareholders of the Company) (such as foreign investors, domestic and foreign financial institutions, institutional investors, allied companies, investment companies, management participating-type private equity funds and investment-purpose companies) an opportunity to subscribe for convertible bonds to be issued by the Company, as deemed necessary to achieve the Company's management objectives (including, but not limited to, introduction of new technology, improvement of the financial structure of the Company or its subsidiaries, etc., funding, and strategic business alliance);
  - 2. By granting a large number of unspecified persons (including the shareholders of the Company) an opportunity to subscribe for bonds to be issued by the Company and allotting convertible bonds to such persons who so subscribe;

- (2) If bonds are allotted under Item 2 of Paragraph (1) above, they shall be allotted by any of the following methods by a resolution of the Board of Directors:
  - 1. Allotting convertible bonds to a large number of unspecified persons who subscribe, without classifying the types of persons who are granted the opportunity to subscribe for bonds;
  - 2. Granting the existing shareholders the opportunity to preferentially subscribe for convertible bonds to be issued by the Company and granting a large number of unspecified persons the opportunity to be allotted convertible bonds which have not been subscribed for; and
  - 3. Granting certain types of persons the opportunity to subscribe for convertible bonds to be issued by the Company, in accordance with reasonable standards set forth in applicable laws, such as book building by an investment trader or investment broker as underwriter or arranger.
- (3) The Board of Directors may grant conversion rights to only a part of the convertible bonds referred to in Paragraph (1) above.
- (4) The shares to be issued upon conversion shall be common shares, and the conversion price, which shall be equal to or greater than the face value of the shares, shall be determined by the Board of Directors at the time of issuance of the convertible bonds.
- (5) The conversion period shall commence three (3) months after the issue date of the convertible bonds and end on the date immediately preceding the redemption date thereof; provided, that the conversion period may be adjusted within the above period by a resolution of the Board of Directors.
- (6) In case of conversion, the Company shall pay interest only to the extent due and payable prior to the date of conversion.

#### **Article 19.** (Issuance of Bonds with Warrants)

- (1) The Company may, in any of the following cases, issue bonds with warrants to persons other than existing shareholders of the Company, by a resolution of the Board of Directors, up to a total face value of KRW 2 trillion:
  - Granting certain persons (including the shareholders of the Company) (such as foreign investors, domestic and foreign financial institutions, institutional investors, allied companies, investment companies, management participating-type private equity funds and investment-purpose companies) an opportunity to subscribe for bonds with warrants to be issued by the Company, as deemed necessary to achieve the Company's management objectives (including, but not limited to, introduction of new technology, improvement of the financial structure of the Company or its subsidiaries, etc., funding, and strategic business alliance);
  - 2. Granting a large number of unspecified persons (including the shareholders of the Company) the opportunity to subscribe for bonds to be issued by the Company and allotting bonds with warrants to such persons who so subscribe;
- (2) If bonds are allotted under Item 2 of Paragraph (1) above, such bonds shall be allotted by any of the following methods by a resolution of the Board of Directors:
  - 1. Allotting bonds to a large number of unspecified persons who subscribe, without classifying the types of persons who are granted the opportunity to subscribe, for the bonds;
  - 2. Granting the existing shareholders the opportunity to preferentially subscribe for bonds with warrants to be issued by the Company and granting a large number of unspecified persons the opportunity to be allotted bonds with warrants which have not been subscribed for; and
  - 3. Granting certain types of persons the opportunity to subscribe for bonds with warrants to be issued by the Company, in accordance with reasonable standards set forth in applicable laws, such as book building by an investment trader or investment broker as underwriter or arranger.

- (3) The exercise price of the warrants shall be determined by the Board of Directors; provided, that the aggregate amount of such exercise price shall not exceed the aggregate face value of the bonds with warrants.
- (4) The types of shares to be issued upon the exercise of warrants shall be common shares, and the issue price, which shall be equal to or greater than the face value of the shares, shall be determined by the Board of Directors at the time of issuance of the bonds with warrants.
- (5) The period during which the warrants may be exercised shall commence three (3) months after the issue date of the bonds with warrants and end on the date immediately preceding the redemption date thereof; provided, that the exercise period may be adjusted within the above period by a resolution of the Board of Directors.
- (6) <Deleted>

#### **Article 20.** (Issuance of Participating Bonds)

- (1) The Company may issue participating bonds to persons other than existing shareholders of the Company, by a resolution of the Board of Directors, up to a total face value of KRW 1 trillion.
- (2) With respect to the participation in declaration of dividends on the bonds under Paragraph (1), the relevant matters shall be determined by the Board of Directors upon issuance thereof based on the declaration of dividends in respect to common shares.

#### **Article 21.** (Issuance of Contingent capital securities)

- (1) The Company may, by a resolution of the Board of Directors, issue bonds with the condition that such bonds shall be convertible into shares or the Company and the duties of redemption of which and the payment of interest of which shall be mitigated on the condition that any ground preliminarily prescribed in accordance with objectives and reasonable standards at the time of the issuance of such bonds which are different from the bonds under Articles 469(2), 513 and 516-2 of the KCC (such bonds shall be respectively, "convertible contingent capital securities" and "bail-in contingent capital securities" and collectively, "contingent capital securities").
- (2) The Company may, by a resolution of the Board of Directors, issue convertible contingent capital securities up to the total par value of KRW 2 trillion and may issue bail-in contingent capital securities up to the total par value of KRW 20 trillion.
- (3) Any convertible contingent capital securities issued by the Company shall be converted into shares issued by the Company pursuant to applicable laws and regulations including the Financial Holding Companies Act in case of the followings; the Board of Directors of the Company may determine the class and terms of the shares to be issued by a conversion when convertible contingent capital securities are issued, to the extent permitted by applicable laws and regulations:
  - 1. If the Company is designated as an insolvent financial institution under the Act on the Structural Improvement of the Financial Industry; and
  - 2. If the Company satisfies certain conditions as pre-determined at the time of issuance of convertible contingent capital securities in relation to managerial performance or financial structure, etc. of the Company.
- (4) The duties of redemption and the payment of interest of any bail-in contingent capital securities issued by the Company shall be mitigated ("debt restructuring") in case of any events set forth in each Item of Paragraph (3). The Board of Directors of the Company may determine the details and conditions to be changed due to debt restructuring at the time of issuance of the bail-in contingent capital securities to the extent permitted by applicable laws and regulations.
- (5) A shareholders of the Company shall be entitled to be allotted of convertible contingent capital securities as prorated to the number of shares held by itself in issuing the convertible contingent capital securities.

- (6) Notwithstanding Paragraph (5), the Company may issue convertible contingent capital securities to non-shareholders by a resolution of the Board of Directors in case of the followings:
  - where, to the extent the number of shares to be issued by a conversion of the relevant convertible
    contingent capital securities does not exceed the total number of issued and outstanding shares,
    convertible contingent capital securities are issued to Korean and foreign financial institutions or
    institutional investors for the urgent fund raising purpose;
  - where, to the extent the number of shares to be issued by a conversion of the relevant convertible contingent capital securities does not exceed the total number of issued and outstanding shares, convertible contingent capital securities are issued to foreign investors, Korean and foreign financial institutions, institutional investors, allied company, etc. by the method other than that set forth in Item 1, if necessary for the managerial purpose of the Company such as introduction of new technology, improvement of financial structure of the Company or its subsidiary, etc., fund raising, strategic business alliance, etc.;
  - 3. where a large number of unspecified persons (including shareholders of the Company) are granted an opportunity to subscribe for convertible contingent capital securities, and thereby convertible contingent capital securities are issued to relevant subscribers by allocating the convertible contingent capital securities.

#### **Article 22.** (Applicable Provisions for the Issuance of Bonds)

With respect to issuance of bonds, Article 14 shall apply mutatis mutandis thereto.

#### Article 22-2. (Electronic Registration of Rights to be Indicated on Bonds and the likes)

The Company shall electronically register rights to be indicated on its certificates of bonds, share-related bonds (e.g., convertible bonds, bonds with warrants) and contingent capital securities on the electronic registrar of the electronic registration agency, in lieu of issuing certificates of bonds, share-related bonds and contingent capital securities; provided, that in the case of bonds, the Company may choose not to make such a registration, except when registration is mandated by laws and regulations, as is the case for listed bonds.

## CHAPTER IV. GNENERAL MEETINGS OF SHAREHOLDERS

#### **Article 23.** (Timing of Convocation)

- (1) A General Meeting of Shareholders of the Company shall be an ordinary General Meeting of Shareholders or an extraordinary General Meeting of Shareholders.
- (2) An ordinary General Meeting of Shareholders shall be held within three (3) months of the date set forth in Article 16 (1), and an extraordinary General Meeting of Shareholders may be convened as deemed necessary.

#### **Article 24.** (Person Authorized to Convene)

- (1) Except as otherwise prescribed by applicable laws and regulations, the Representative Director of the Company shall convene all General Meetings of Shareholders by a resolution of the Board of Directors.
- (2) If the Representative Director of the Company is absent or unable to perform his/her duties as such, the highest ranking Director in accordance with the order of priority determined by the Board of Directors shall convene the General Meetings of Shareholders.

#### **Article 25.** (Notice of Convening a Meeting)

- (1) In convening any General Meeting of Shareholders, a written or, upon obtaining consent from each shareholder, an electronic notice stating the date, place and purpose of the meeting and the matters that a listed company is required to notify and give public notice on pursuant to the KCC and other applicable laws and regulations shall be dispatched to the shareholders at least two (2) weeks prior to the date set for such meeting.
- (2) With respect to the shareholders holding shares 1/100 or less of the total number of voting shares of the Company, the written or electronic notice under Paragraph (1) above on the matters under Paragraph (1) may be replaced by (i) publishing two (2) or more public notices in at least two (2) daily newspapers set forth in Article 4 above, or (ii) making a public notice on the Data Analysis, Retrieval and Transfer System operated by the Financial Supervisory Service or the Korea Exchange announcing the convening of the General Meeting of Shareholders and the purpose of the meeting two(2) weeks in advance.
- (3) In lieu of a notice or public notice of the matters that a listed company is required to notify and give public notice on under Paragraph (1) above, such matters may be made available to the general public in a manner set forth in the KCC and other applicable laws and regulations, such as posting on the Company's website.

#### **Article 26.** (Place of Meeting)

A General Meeting of Shareholders shall be held at the location of the Company's head office but, if necessary, may also be held in another place in the vicinity.

#### Article 27. (Chairman)

- (1) The Representative Director of the Company shall preside as chairman at all General Meetings of Shareholders.
- (2) If the Representative Director of the Company is absent or unable to perform his/her duties as chairman of a General Meeting of Shareholders, Article 24(2) shall apply *mutatis mutandis* thereto.

#### **Article 28.** (Chairman's Authority to Maintain Order)

- (1) The chairman of the General Meeting of Shareholders may order persons who purposely speaks or acts in a manner that prevents or disrupts the deliberations of the General Meeting of Shareholders or who otherwise significantly disturbs the public order of the General Meeting of Shareholders to stop their remarks or to leave the place of meeting.
- (2) The chairman may restrict the length and frequency of the speech of shareholders if it is necessary for the smooth deliberations of the General Meeting of Shareholders.

#### Article 29. (Voting Rights)

Each shareholder shall have one (1) vote for each share he/she/it owns.

#### Article 30. (Split Voting)

- (1) If any shareholder who holds two (2) or more votes wishes to split his/her/its votes, he/she/it shall notify the Company, in writing, of such intent and the reasons therefor no later than three (3) days prior to the date set for the General Meeting of Shareholders.
- (2) The Company may refuse to allow the shareholder to split his/her/its votes, unless the shareholder acquired the shares in trust or otherwise holds the shares for and on behalf of some other person.

#### **Article 31.** (Voting by Proxy)

- (1) A shareholder may exercise his/her/its vote through a proxy.
- (2) A proxy holder under Paragraph (1) above shall file with the Company documents (power of attorney) evidencing the authority to act as a proxy prior to the commencement of the General Meeting of Shareholders.

#### **Article 32.** (Method of Resolution)

- (1) Except as otherwise provided in the applicable laws and regulations or herein, all resolutions of a General Meeting of Shareholders shall be adopted by the affirmative vote of a majority of the shareholders present, and such votes shall represent not less than 1/4 of the total number of issued and outstanding shares of the Company.
- (2) The number of voting rights exercised under Article 33 hereof shall be included in the number of voting rights of the shareholders present at a General Meeting of Shareholders.

#### **Article 33.** (Exercise of Voting Rights in Writing)

- (1) Any shareholder may, by a resolution of the Board of Directors, exercise its voting right in writing without being present at a General Meeting of Shareholders.
- (2) In the case of Paragraph (1) above, the Company shall attach to the convening notice of the General Meeting of Shareholders written forms and reference materials necessary for the exercise of voting rights.
- (3) Any shareholder who intends to exercise its voting rights in writing shall indicate the necessary information in written form pursuant to Paragraph (2) above, and shall submit the completed forms to the Company at least one (1) day prior to the date of the General Meeting of Shareholder.

#### **Article 34.** (Minutes of General Meetings of Shareholders)

The course of the proceedings of a General Meeting of Shareholders and the results thereof shall be recorded in the minutes, which shall be affixed with the names and seal impressions or signatures of the chairman and the directors present at the meeting, and shall be kept at the head office and branches of the Company.

## CHAPTER V. DIRECTORS AND BOARD OF DIRECTORS

#### **Article 35.** (Number of Directors)

- (1) The Company shall have 15 Directors or less.
- (2) Directors shall be classified as inside Directors, outside Directors and other Directors who are not engaged in the regular business of the Company ("non-standing Directors"); provided that the number of outside Directors shall be at least three (3), forming a majority of the total number of Directors.

## **Article 36.** (Election of Directors)

- (1) Directors shall be elected at a General Meeting of Shareholders.
- (2) The Representative Director, outside Directors and Audit Committee members shall be recommended by the Officer Candidate Recommendation Committee.

#### **Article 37.** (Term of Director)

- (1) The term of office of a Director shall be not more than three (3) years as determined by a General Meeting of Shareholders, and a Director so appointed may be reappointed
- (2) Notwithstanding Paragraph (1) above, the term of office of an outside Director shall be within two (2) years, with the right to be reappointed for subsequent one-year periods, for up to a total of six (6) years.
- (3) The term of office for a Director under Paragraphs (1) and (2) above shall be extended until the close of an ordinary General Meeting of Shareholders held with respect to the fiscal year which is the last fiscal year during his/her term in office.

## Article 38. (Qualification Requirements for Outside Directors)

- (1) The Company shall appoint an outside Director with expertise and insight, in consideration of the following matters:
  - 1. Whether he or she has sufficient professional knowledge or practical experience in such relevant areas of finance, economics, business management, accounting, law, consumer protection, information technology or others as necessary to perform the duties of an outside Director;
  - 2. Whether he or she can fairly perform the duties of an outside Director for the interests of the shareholders and financial consumers without being bound by special interest;
  - 3. Whether he or she has ethics and a sense of responsibility appropriate to perform the duties of an outside Director; and
  - 4. Whether he or she can allocate sufficient time and exercise efforts as required to faithfully perform the duties of an outside Director.
- (2) No person who falls under disqualifications set forth in the Act on Corporate Governance of Financial Companies and other relevant laws shall be an outside Director.

## Article 39. (By-election)

- (1) Any vacancy in the office of a Director shall be filled by an election at the General Meeting of Shareholders, except where the required number under Article 35 is satisfied and there is no difficulty in executing business affairs.
- (2) If, due to resignation or death of an outside Director or a similar cause, the required number under Article 35 is not satisfied, such requirement shall be satisfied at the first General Meeting of Shareholders convened after the occurrence of such cause.
- (3) The term of office of a substitute Director shall begin on the date of his/her appointment.

#### **Article 40.** (Appointment of the Representative Director)

The Company shall appoint one (1) Representative Director of the Company by a resolution of the Board of Directors.

## **Article 41.** (Duties of the Representative Director)

- (1) The Representative Director shall represent the Company, execute the resolutions by the Board of Directors, and operate the business of the Company as determined by the Board of Directors.
- (2) If the Representative Director is absent or unable to perform his/her duties as such, the position shall be filled in accordance with the order of priority determined by the Board of Directors.

#### **Article 42.** (Duties of the Directors)

- (1) A Director shall faithfully perform his/her duties in accordance with applicable laws and regulations as well as these Articles of Incorporation and shall not, either during the term of his/her office or thereafter, disclose business secrets of the Company that have come to his/her knowledge in the course of performing his/her duties.
- (2) Upon discovering a fact that might potentially cause material damage to the Company, a Director shall immediately report such fact to the Audit Committee.

#### **Article 43.** (Composition and Role of the Board of Directors)

- (1) The Board of Directors shall consist of Directors, and shall adopt resolutions regarding matters reserved for the Board of Directors by the KCC, the Act on the Governance Structure of Financial Companies and relevant laws and other important matters for business of the Company.
- (2) The Board of Directors shall review and resolve the following matters with the purpose of increasing profits to the shareholders:
  - 1. Matters regarding business management objectives and evaluation;
  - 2. Matters regarding amendments to the Articles of Incorporation;
  - 3. Matters regarding budgets and annual closing of accounts;
  - 4. Matters regarding material changes to the organization, such as dissolution, business transfer and merger, etc.;
  - Matters regarding the enactment, amendment and repeal of internal control standards and risk management standards;
  - 6. Matters regarding the establishment of governance structure policies, such as the succession of management by the chief executive officer, etc.;
  - 7. Matters regarding supervision of conflicts of interest between the Company and major shareholders, officers, etc.;
  - 8. Other matters set forth by the laws and regulations, and the Regulations of the Board of Directors.
- (3) Detailed matters of each Item of Paragraph (2) above and detailed matters regarding the operation of the Board of Directors shall be determined by resolutions of the Board of Directors.

### **Article 44.** (Chairman of the Board of Directors)

- (1) The chairman of the Board of Directors (the "Chairman") shall be annually appointed from among the outside Directors by a resolution of the Board of Directors.
- (2) If the Board of Directors appoints a Chairman who is not an outside Director, a person representing outside Directors (the "Senior Outside Director") shall be appointed by a resolution of the Board of Directors.
- (3) If the chairman is absent or unable to perform his/her duties as such, the Director as determined by the Board of Directors shall take his/her place.

## **Article 45.** (Convening of a Meeting of the Board of Directors)

- (1) The meetings of the Board of Directors of the Company shall be either ordinary Board of Directors meetings or extraordinary Board of Directors meetings, both of which shall be convened by the Chairman.
- (2) Ordinary Board of Directors meetings shall be convened once a quarter, and extraordinary Board of Directors meetings may be convened from time to time as deemed necessary by the Chairman.

- (3) Any other Director may request the Chairman to convene a meeting of the Board of Directors. If the Chairman refuses to convene a meeting of the Board of Directors without a justifiable cause, another Director may convene a meeting of the Board of Directors.
- (4) In convening a meeting of the Board of Directors, a convening notice stating the date, time and place of the meeting and the purposes for which such meeting has been convened shall be sent to each Director together with the agenda and related materials, at least one (1) week prior to the scheduled date of such meeting. However, if there is an urgent reason, the said period may be shortened, and if the consent of all directors has been obtained, the convening procedures may be omitted.

#### Article 46. (Method of Resolution of the Meetings of Board of Directors)

- (1) Except as otherwise provided in the KCC, the Act on the Governance Structure of Financial Companies and other applicable laws and regulations, all resolutions of Board of Directors meetings shall be adopted by the affirmative vote of more than one (1)-half of the Directors present at such meeting where more than one (1)-half of the total number of Directors are present.
- (2) The Board of Directors may allow all or part of the Directors to participate, without being physically present at a Board of Directors meeting, in the resolution of such Board of Directors' meeting, by means of a communication system whereby they may receive and transmit live audio communication. Any Director participating in a Board of Directors meeting in the above manner shall be deemed to be present in person at such meeting.
- (3) Any Director who has a special interest in a resolution matter shall not be entitled to vote in such resolution.

#### Article 47. (Minutes of the Meetings of Board of Directors)

- (1) The proceedings of a Board of Directors meeting shall be recorded in minutes.
- (2) The minutes shall record agenda, proceedings and results of a Board of Directors meeting and the dissenting Directors, if any, and his/her reasons for dissenting, and shall be affixed with the names and seal impressions or signatures of the Directors present thereat.

#### **Article 48.** (Committees within the Board of Directors)

- (1) The Company shall have the following committees within the Board of Directors:
  - 1. Officer Candidate Recommendation Committee;
  - 2. Audit Committee;
  - 3. Risk Management Committee;
  - 4. Compensation Committee;
  - 5. Subsidiary Representative Director Candidate Recommendation Committee; and
  - 6. ESG Management Committee
- (2) Details regarding composition, powers, operation, etc. of each of the above committees shall be determined by a resolution of the Board of Directors.

#### **Article 49.** (Remuneration, etc. for Directors)

The remuneration, bonus and severance pay, etc. for the Directors shall be determined by a resolution of the General Meeting of Shareholders.

#### **Article 50.** (Reduction of Directors' Liability to Company)

- The Company may, by a resolution of the General Meeting of Shareholders, exempt the liabilities of a
  Director of the Company under Article 399 of the KCC for the amount exceeding six times (or three

   (3) times in the case of an outside Director) the amount of his/her remuneration (including his/her bonus or
  profits from the exercise of stock options) received by such Director for the past one (1)-year period prior to
  the date the Director has engaged in the relevant act.
- (2) Paragraph (1) above shall not apply with respect to a Director who causes losses through willful misconduct or gross negligence or falls under Article 397, 397-2 or 398 of the KCC.

## CHAPTER VI. AUDIT COMMITTEE

#### **Article 51.** (Composition of Audit Committee)

- (1) The Company shall establish an Audit Committee as set forth in the Act on Corporate Governance of Financial Companies.
- (2) The Audit Committee shall consist of three (3) or more Directors, and 2/3 or more of the members of the Audit Committee shall be outside Directors.
- (3) The members of the Audit Committee shall be appointed at the General Meeting of Shareholders from among the candidates recommended by the Officer Candidate Recommendation Committee by the affirmative vote of 2/3 or more of the total members of such Committee.
- (4) In cases where the requirements set forth in Paragraph (2) cannot be satisfied due to any cause such as the resignation or death of any member of the Audit Committee, the Company shall ensure that the requirements are met at the first General Meeting of Shareholders convened after the occurrence of such cause.
- (5) The Audit Committee shall appoint its representatives, i.e., the Chairman of the Audit Committee, from among the outside Directors by a resolution of the Audit Committee. In such case, several persons can be appointed as the joint representative of the Audit Committee.

#### **Article 52.** (Duties of the Audit Committee)

- (1) The Audit Committee shall audit the accounting records and business activities of the Company.
- (2) If necessary, the Audit Committee may request for convocation of a meeting of the Board of Directors by submitting the agenda and reason for convocation of such meeting in writing to the chairman of the Board of Directors.
- (3) If, despite the request under Paragraph (2) above, the chairman of the Board of Directors fails to convene a meeting of the Board of Directors immediately, the requesting Audit Committee may convene such meeting.
- (4) The Audit Committee may request to convene an extraordinary General Meeting of Shareholders by submitting to the Board of Directors a document stating the purposes of the meeting and reasons for convening such meeting.
- (5) The Audit Committee may request business reports from any subsidiary of the Company if it is necessary for performing its duties. In such case, if the subsidiary does not promptly report to the Audit Committee or the Audit Committee needs to verify the contents of such report, the Audit Committee may investigate the status of business activities and the financial condition of the subsidiary.
- (6) The Audit Committee shall appoint external auditors as set forth in the External Audit of Joint-Stock Companies Act.
- (7) The Audit Committee shall carry out any other matters delegated by the Board of Directors.

(8) No matters resolved by the Audit Committee may be resolved again by the Board of Directors.

#### **Article 53.** (Audit Records)

The Audit Committee shall prepare audit records for the audit it has conducted. The audit records shall record the proceedings and results of the audit, and shall be signed and sealed by or shall bear the signature of the members of the Audit Committee who have conducted such audit.

## CHAPTER VII. ACCOUNTING

#### Article 54. (Fiscal Year)

The fiscal year of the Company shall begin on the first day of January and end on the thirty-first day of December of each year.

#### **Article 55.** (Preparation and Keeping of Financial Statements)

- (1) The Representative Director of the Company shall prepare and have the Audit Committee inspect the following documents and any supplementary schedules attached thereto, as well as the business report at least six (6) weeks prior to the date of an ordinary General Meeting of Shareholders, and thereafter submit the following documents and business report to an ordinary General Meeting of Shareholders:
  - 1. Balance sheet:
  - 2. Statement of income; and
  - 3. Other documents indicating the Company's financial status and management performance, which are set forth in the Enforcement Decree of the KCC.
- (2) If the Company is required to prepare a consolidated financial statement pursuant to the Enforcement Decree of the KCC, the documents under Paragraph (1) above shall include a consolidated financial statement.
- (3) The Audit Committee shall submit an audit report to the Representative Director at least one (1) week prior to the date of an ordinary General Meeting of Shareholders.
- (4) The Representative Director shall keep the documents set forth in each Item of Paragraph (1) above, together with its supplementary schedules, documents under Paragraph (2), the business report and the audit report, at the head office of the Company for a period of five (5) years, and their certified copies at branches for a period of three (3) years, beginning from one (1) week prior to an ordinary General Meeting of Shareholders.
- (5) If the General Meeting of Shareholders approves the documents set forth in each Item of Paragraph (1) and Paragraph (2) above, the Representative Director shall promptly give public notice of the balance sheet, statement of income and consolidated financial statement and consolidated statement of income. Notwithstanding Article 4, such public notice may be given in the form of electronic documents prescribed under the Financial Holding Companies Act.

## **Article 56.** (Appointment of External Auditors)

The Company shall appoint an external auditor selected by the Audit Committee as set forth in the External Audit of Joint-Stock Companies Act, and the Company shall post such appointment on the website of the Company.

#### **Article 57.** (Disposition of Profits)

- (1) The Company shall dispose of the net profit of the Company and the amounts carried over from the previous fiscal years as of the end of each fiscal year as follows:
  - 1. Earned surplus reserve;
  - 2. Other statutory reserves;
  - 3. Dividends;
  - 4. Voluntary reserves; and
  - 5. Other appropriated retained earnings.

#### **Article 58.** (Retirement of Shares)

- (1) The Company may retire the shares within the scope of profits attributable to the shareholders by a resolution of the Board of Directors.
- (2) In order to retire the shares pursuant to Paragraph (1) above, the Board of Directors shall adopt the following resolutions:
  - 1. Types and the total number of shares to be retired;
  - 2. The total amount of shares to be acquired for retirement; and
  - 3. Acquisition period for the shares; in this case, the acquisition period shall be before the first ordinary General Meeting of Shareholders to be held after the resolution of such retirement by the Board of Directors.
- (3) If shares are acquired for the purpose of retirement pursuant to Paragraph (1), the following criteria shall be followed:
  - 1. The method and criteria as prescribed in the Financial Investment Services and Capital Markets Act shall be followed; in this case, the acquisition period and method shall satisfy the criteria set forth in the Enforcement Decree of the Financial Investment Services and Capital Markets Act; and
  - Total price of the shares to be acquired for the purpose of retirement shall not be more than the amount
    as prescribed in the Enforcement Decree of the Financial Investment Services and Capital Markets Act
    within the scope available for dividend at the end of such fiscal year pursuant to Article 462(1) of the
    KCC.
- (4) When the shares are retired pursuant to Paragraph (1), the matters referred to in each Item of Paragraph (2) and the reasons of retirement shall be reported to the first ordinary General Meeting of Shareholders to be held after the resolution of such retirement.

#### Article 59. (Dividends)

- (1) Dividends may be distributed in cash, stock or other property.
- (2) The Company may set a record date for determining the shareholders entitled to receive dividends under Paragraph (1) by a resolution of the Board of Directors and provided that the Company shall give at least two(2) weeks prior notice of such record date to the public.
- (3) If the Company distributes dividends in other property under Paragraph (1) above, the shareholders may request to be paid in cash rather than in such property, and the Company may pay cash instead of such property to shareholders holding less than a certain number of shares of the Company.

#### **Article 60.** (Quarterly Dividends)

- (1) The Company may pay quarterly dividends under Article 165-12 of the Financial Investment Services and Capital Markets Act to its shareholders registered in the shareholders' registry of the Company as of the end of March, June and September of each year. Quarterly dividends shall be paid in cash.
- (2) Quarterly dividends referred to in Paragraph (1) above shall be paid by a resolution of the Board of Directors, provided that such resolution shall be made within 45 days from each record date referred to in Paragraph (1) above.
- (3) The quarterly dividends shall be paid within the limit of the amount remaining after deducting each of the following amounts from the amount of net assets recorded in the balance sheet of the immediately preceding fiscal year:
  - 1. The amount of paid in capital for the immediately preceding fiscal year;
  - 2. The aggregate sum of capital reserves and earned surplus reserves accumulated up to the immediately preceding fiscal year;
  - 3. The unrealized gain as set forth in the Enforcement Decree of the KCC;
  - 4. The amount resolved to be distributed as profits at an ordinary General Meeting of Shareholders for the immediately preceding fiscal year;
  - 5. The voluntary reserves accumulated for a specific purpose up to the immediately preceding fiscal year pursuant to these Articles of Incorporation or a resolution of the General Meeting of Shareholders; and
  - The earned surplus reserves to be accumulated for the relevant fiscal year as a result of the quarterly dividends.
  - 7. The aggregate amount of quarterly dividends paid during the current fiscal year, if any.
- (4) For quarterly dividends, the same dividend rate as that of common shares of the Company shall apply to class shares under Articles 10 through 10-5 hereof.

#### Article 61. (Extinctive Prescription Period for Claim for Payment of Dividends)

- (1) The right to dividends shall be extinguished by extinctive prescription if the right is not exercised for five (5) years.
- (2) After the expiration of the extinctive prescription period set forth in Paragraph (1) above, any unclaimed dividends shall revert to the Company.

## **Article 62.** (Supplementary Rules)

Matters not provided herein shall be governed by a resolution of the Board of Directors or the General Meeting of Shareholders, or the applicable laws and regulations including the KCC.

#### Addenda

## **Article 1.** (Effective Date)

These Articles of Incorporation shall take effect as of the date of the registration of incorporation of the Company.

#### **Article 2.** (Initial Transfer Agent after Incorporation)

Notwithstanding Article 14 hereof, the initial transfer agent after incorporation shall be the Korea Securities Depository.

## Article 3. (Appointment of Initial Representative Director, Outside Director and Audit Committee Member after Incorporation)

Notwithstanding Articles 36 and 40 hereof, the initial Representative Director, outside Director and Audit Committee Member shall be appointed through approval on the share transfer plan of the share transferring company without recommendation of the Officer Candidate Recommendation Committee.

#### **Article 4.** (Term of Office of Initial Director after Incorporation)

Notwithstanding Article 37 hereof, the term of office of the initial Director after incorporation of the Company shall be determined through approval on the share transfer plan of the share transferring company to the extent permitted under applicable laws and regulations.

#### Article 5. (Remuneration of Directors for the Initial Fiscal Year after Incorporation)

Notwithstanding Article 49 hereof, the remuneration for a Director for the initial fiscal year after incorporation of the Company shall be determined at the first meeting of the Board of Directors after incorporation of the Company with KRW 3.2 billion as cap amount.

### **Article 6.** (Initial Fiscal Year after Incorporation)

Notwithstanding Article 54 hereof, the initial fiscal year of the Company after incorporation of the Company shall be from the date of incorporation to December 31, 2019.

#### **Article 7.** (Share Transferring Company)

In order to incorporate the Company, the share transferring company set forth below shall prepare these Articles of Incorporation and affix its name and seal hereon as of June 19, 2018.

## Addenda (1:March 25, 2020)

These Articles of Incorporation shall become effective as of March 25, 2020.

#### Addenda (2:March 26, 2021)

The amended Articles of Incorporation shall become effective as of March 26, 2021.

#### Addenda (3:March 25, 2022)

The amended Articles of Incorporation shall become effective as of March 25, 2022.

#### Addenda (4:March 24, 2023)

The amended Articles of Incorporation shall become effective as of March 24, 2023.

- I, Jong-Yong Yim, certify that:
  - 1. I have reviewed this annual report on Form 20-F of Woori Financial Group Inc.;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the company as of, and for, the periods presented in this report;
- 4. The company's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the company and have:
  - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the company, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - (c) Evaluated the effectiveness of the company's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - (d) Disclosed in this report any change in the company's internal control over financial reporting that occurred during the period covered by the annual report that has materially affected, or is reasonably likely to materially affect, the company's internal control over financial reporting; and
- 5. The company's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the company's auditors and the audit committee of the company's board of directors (or persons performing the equivalent functions):
  - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the company's ability to record, process, summarize and report financial information; and
  - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the company's internal control over financial reporting.

Date: April 21, 2023

/s/ Jong-Yong Yim

Jong-Yong Yim
Chief Executive Officer

- I, Sung-Wook Lee, certify that:
  - 1. I have reviewed this annual report on Form 20-F of Woori Financial Group Inc.;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the company as of, and for, the periods presented in this report;
- 4. The company's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the company and have:
  - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the company, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - (c) Evaluated the effectiveness of the company's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - (d) Disclosed in this report any change in the company's internal control over financial reporting that occurred during the period covered by the annual report that has materially affected, or is reasonably likely to materially affect, the company's internal control over financial reporting; and
- 5. The company's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the company's auditors and the audit committee of the company's board of directors (or persons performing the equivalent functions):
  - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the company's ability to record, process, summarize and report financial information; and
  - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the company's internal control over financial reporting.

Date: April 21, 2023

/s/ Sung-Wook Lee

Sung-Wook Lee

Deputy President and Principal Financial Officer

## Certification

# Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 (Subsection (a) and (b) of Section 1350, Chapter 63 of Title 18, United States Code)

Pursuant to section 906 of the Sarbanes-Oxley Act of 2002 (subsection (a) and (b) of section 1350, chapter 63 of title 18, United States Code), the undersigned officer of Woori Financial Group Inc., a corporation organized under the laws of the Republic of Korea (the "Company"), does hereby certify, to such officer's knowledge, that:

The annual report on Form 20-F for the year ended December 31, 2022 (the "Form 20-F") fully complies with the requirements of section 13(a) or 15(d) of the Securities Exchange Act of 1934 and that information contained in the Form 20-F fairly presents, in all material respects, the financial condition and results of operation of the Company.

Date: April 21, 2023	/s/ Jong-Yong Yim
	Jong-Yong Yim
	Chief Executive Officer

A signed original of this written statement required by Section 906 of the Sarbanes-Oxley Act of 2002 has been provided to Woori Financial Group Inc. and will be retained by Woori Financial Group Inc. and furnished to the U.S. Securities and Exchange Commission or its staff upon request.

#### Certification

## Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 (Subsection (a) and (b) of Section 1350, Chapter 63 of Title 18, United States Code)

Pursuant to section 906 of the Sarbanes-Oxley Act of 2002 (subsection (a) and (b) of section 1350, chapter 63 of title 18, United States Code), the undersigned officer of Woori Financial Group Inc., a corporation organized under the laws of the Republic of Korea (the "Company"), does hereby certify, to such officer's knowledge, that:

The annual report on Form 20-F for the year ended December 31, 2022 (the "Form 20-F") fully complies with the requirements of section 13(a) or 15(d) of the Securities Exchange Act of 1934 and that information contained in the Form 20-F fairly presents, in all material respects, the financial condition and results of operation of the Company.

Date: April 21, 2023

/s/ Sung-Wook Lee

Sung-Wook Lee

Deputy President and
Principal Financial Officer

A signed original of this written statement required by Section 906 of the Sarbanes-Oxley Act of 2002 has been provided to Woori Financial Group Inc. and will be retained by Woori Financial Group Inc. and furnished to the U.S. Securities and Exchange Commission or its staff upon request.

April 21, 2023

Securities and Exchange Commission 100 F Street, N.E. Washington, DC 20549

Commissioners:

We have read the statements made by Woori Financial Group Inc. (copy attached), which we understand will be filed with the Securities and Exchange Commission, pursuant to Item 16F of Form 20-F of Woori Financial Group Inc. dated April 21, 2023. We agree with the statements concerning our Firm contained therein.

Very truly yours,

/s/ Samil PriceWaterhouseCoopers

Seoul, Korea