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

FORM 20-F

(Mark One)		
	T TO SECTION 12(b) OR (g) O OR	OF THE SECURITIES EXCHANGE ACT OF 1934
	ON 13 OR 15(d) OF THE SECU e fiscal year ended December 3	
☐ TRANSITION REPORT PURSUANT TO SE	` ´	SECURITIES EXCHANGE ACT OF 1934
Date of event re	OR TO SECTION 13 OR 15(d) OF 3 equiring this shell company rep ommission file number 001-318	
Woori	Financial Grename of Registrant as specified in its	oup Inc.
Woori	Financial Gronslation of Registrant's name into En	oup Inc.
	The Republic of Korea	
(Jur	isdiction of incorporation or organiza	ation)
	ogong-ro, Jung-gu, Seoul 04632, I	
	(Address of principal executive offices	(8)
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	Facsimile No.: +82-0505001-0451	
(Name, telephone, e-mail a	and/or facsimile number and address of	of company contact person)
Securities registered of	or to be registered pursuant to Se	ection 12(b) of the Act.
Title of each class	Trading symbol	Name of each exchange on which registered
American Depositary Shares, each representing	WF	New York Stock Exchange
three shares of Common Stock Common Stock, par value W5 ,000 per share	WF	New York Stock Exchange*
	d or to be registered pursuant to Sect	
Securities for which there	None re is a reporting obligation pursuant to	o Section 15(d) of the Act
Securities for which the	None None	o section 12(d) of the 12ch
	I shares of Common Stock, par value W 5,0	00 per share
Indicate by check mark if the registrant is a well-known seasoned is If this report is an annual or transition report, indicate by check mar		ts pursuant to Section 13 or 15(d) of the Securities Exchange Act of
1934. ☐ Yes ⊠ No		
(or for such shorter period that the registrant was required to file such rep	ports), and (2) has been subject to such filing	of the Securities Exchange Act of 1934 during the preceding 12 months requirements for the past 90 days. ✓ Yes ☐ No o be submitted pursuant to Rule 405 of Regulation S-T (§232.405 of this
chapter) during the preceding 12 months (or for such shorter period that		
Indicate by check mark whether the registrant is a large accelerated accelerated filer," "accelerated filer," and "emerging growth company" i Large accelerated filer Accelerate	in Rule 12b-2 of the Exchange Act.	elerated filer
If an emerging growth company that prepares its financial statemen transition period for complying with any new or revised financial account	nts in accordance with U.S. GAAP, indicate by nting standards† provided pursuant to Section	y check mark if the registrant has elected not to use the extended a 13(a) of the Exchange Act.
† The term "new or revised financial accounting standard" refers to April 5, 2012.	any update issued by the Financial Accounting	ng Standards Board to its Accounting Standards Codification after
Indicate by check mark whether the registrant has filed a report on a under Section 404(b) of the Sarbanes-Oxley Act (15 U.S.C. 7262(b)) by	the registered public accounting firm that pre	
	International Financial Reporting Standards by the International Accounting Standards Bo	as issued
If "other" has been checked in response to the previous question, in If this is an annual report, indicate by check mark whether the regis	ndicate by check mark which financial statement strant is a shell company (as defined in Rule 1	ent item the registrant has elected to follow. ☐ Item 17 ☐ Item 18 2b-2 of the Exchange Act). ☐ Yes ☒ No
(APPLICABLE ONLY TO ISSUERS INVOLVED IN BANKRUP Indicate by check mark whether the registrant has filed all documen the distribution of securities under a plan confirmed by a court. Ye:	nts and reports required to be filed by Sections	FIVE YEARS) s 12, 13 or 15(d) of the Securities Exchange Act of 1934 subsequent to
* Not for trading, but only in connection with the registration of the Ame		

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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," "us," "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.

For your convenience, this annual report contains conversions of Won amounts into U.S. dollars at the noon buying rate of the Federal Reserve Bank of New York for Won in effect on December 31, 2020, which was \$1,086.1 = US\$1.00.

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:

- a change or delay in, or cancellation of, the Korean government's privatization plan with respect to us;
- 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. Selected Financial Data

The selected consolidated financial and operating data set forth below as of and for the years ended December 31, 2016, 2017, 2018, 2019 and 2020 have been derived from our audited consolidated financial statements, which have been prepared in accordance with IFRS as issued by the IASB. Our consolidated financial statements as of and for the years ended December 31, 2016, 2017, 2018 and 2019 have been audited by Deloitte Anjin LLC, an independent registered public accounting firm. Our consolidated financial statements as of and for the year ended December 31, 2020 have been audited by Samil PricewaterhouseCoopers, an independent registered public accounting firm.

IFRS 9 Financial Instruments, or IFRS 9, is effective for annual periods beginning on or after January 1, 2018 and replaces International Accounting Standard 39 Financial Instruments: Recognition and Measurement, or IAS 39. We have applied IFRS 9 in our consolidated financial statements as of and for the years ended December 31, 2018, 2019 and 2020 included elsewhere in this annual report. As permitted by the transition rules of IFRS 9, our consolidated financial statements as of and for the years ended December 31, 2016 and 2017 have not been restated to retroactively apply IFRS 9.

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.

Consolidated Statement of Comprehensive Income Data

	Year ended December 31,											
		2016	20	017	2	2018	2	2019	2	2020	202	20(1)
		(in b	illio	ns of V	Von	except	per	share da	ata)		ÚS\$ ex	lions of cept per data)
Interest income Interest expense		8,512 (3,492)		8,551 (3,330)		9,684 (4,033)	₩	10,577 (4,683)	₩	9,524 (3,526)	US\$	8,769 (3,246)
Net interest income		5,020		5,221		5,651		5,894		5,998		5,523
Fees and commissions income Fees and commissions expense		1,865 (928)		2,069 (999)		1,681 (611)		1,709 (606)		1,694 (681)		1,560 (626)
Net fees and commissions income		937		1,070		1,070		1,103		1,013		934
Dividend income		185		125		91 214		108 25		139 422		128 388
(IAS 39)		114		(105)				11		24		22
Net gain (loss) on available-for-sale financial assets		(1)		193		_		_		_		_
Net gain arising on financial assets at amortized cost Impairment losses due to credit loss General and administrative expenses Other net operating expenses ⁽²⁾		(834) (3,479) (368)	,	(785) (3,531) (31)		80 (330) (3,624) (395)		102 (374) (3,766) (303)		44 (784) (3,956) (820)		41 (722) (3,643) (755)
Operating income		1,574		2,157		2,759		2,800		2,080		1,916
Share of gain (loss) of joint ventures and associates Other net non-operating income (expense)		(20) (1)		(101) (106)		3 43		84 (161)		101 (180)		93 (166)
Non-operating income (loss)		(21)		(207)		46		(77)		(79)		(73)
Net income before income tax expense Income tax expense		1,553 (276)		1,950 (420)		2,805 (753)		2,723 (685)		2,001 (486)		1,843 (447)
Net income	₩	1,277	₩	1,530	₩	2,052	₩	2,038	₩	1,515	US\$	1,396
Net gain (loss) on valuation of equity securities at fair value through other comprehensive income. Items out of change in equity method securities due to change in equity of investee that will not be reclassified to profit or loss. Remeasurement gain (loss) related to defined benefit plan				——————————————————————————————————————		(31)		(58)		47 (2) 10		44 (2) 9
Items that will not be reclassified to profit or loss	_	34		7	_	(116)	_	(93)	_	55		51
•		34		,		(110)		(93)		33		31
Net gain on valuation of debt securities at fair value through other comprehensive income Gain (loss) on available-for-sale financial assets		-		(85)		33		44		12		11
Share of other comprehensive income (loss) of joint ventures and associates		(8) 29		(208)		3 (4)		1 102		(153)		(142)
Gain (loss) on foreign currency translation of foreign operations Gain (loss) on valuation of cash flow hedge		10		1		(5)		(2)		(133)		4
Other comprehensive income (loss) on valuation of assets held for sale				4		(4)						
Items that may be reclassified to profit or loss Other comprehensive income (loss), net of tax		44 78		(284) (277)		(93)		145 52		(137)		(127) (76)
Total comprehensive income	₩	1,355	₩	1,253	₩	1,959	₩	2,090	₩	1,433	US\$	1,320
Net income attributable to owners Net income attributable to non-controlling interests Comprehensive income attributable to owners Comprehensive income attributable to non-controlling interests Basic and diluted earnings per share Per common share data:	₩	1,261 16 1,332 23 1,567	₩	1,512 18 1,249 4 1,999	₩	2,033 19 1,944 15 2,796	₩	1,872 166 1,914 176 2,727		1,307 208 1,233 200 1,742	US\$ US\$ US\$	1,204 192 1,135 185 1.604
Net income per share—basic Weighted average common shares outstanding—basic (in thousands) Net income per share—diluted Weighted average common shares outstanding—diluted (in thousands) Cash dividends paid per share	₩ •	1,567 573,271 1,567 573,271 400	67 ₩ 67	1,999 73,271 1,999 73,271 500	₩ 6	2,796 73,271 2,796 73,271 650	₩ 6	2,727 585,489 2,727 585,489 700	₩ ⁷	1,742 722,268 1,742 722,268 360	US\$	1.604 22,268 1.604 22,268 0.33

Won amounts are expressed in U.S. dollars at the rate of \(\foat{\psi}\)1,086.1 to US\\$1.00, the noon buying rate in effect on December 31, 2020 as quoted by the Federal Reserve Bank of New York in the United States.

⁽²⁾ For a description of "Other net operating expenses," see Note 36 of the notes to our consolidated financial statements.

Consolidated Statement of Financial Position Data

	2016	2017	2020	2020(1)		
		(in l	oillions of W		(in millions of US\$)	
Assets						,
Cash and cash equivalents	₩ 7,591	₩ 6,908				
Financial assets at fair value through profit or loss (IFRS 9) Financial assets at fair value through profit or loss (IAS 39)	5,651	5,843	6,126	8,069	14,763	13,593
Financial assets at fair value through other comprehensive			19.062	27 721	20.020	27 6 4 9
income	20,818	15,353	18,063	27,731	30,029	27,648
Securities at amortized cost	20,010	15,555	22,933	20,321	17.021	15,672
Held-to-maturity financial assets	13,910	16,749	22,755	20,521		- 13,072
Loans and other financial assets at amortized cost		_	282,458	293,718	320,106	294,730
Loans and receivables	258,393	267,106	· —	· —	· —	
Investments in joint ventures and associates	439	417	362	806	993	915
Investment properties	358	371	378	280	387	357
Premises and equipment	2,458	2,478	2,450	3,365	3,287	3,027
Intangible assets and goodwill	484	519	598	844	792	729
Assets held for sale	2	49	18	11	60	55
Net defined benefit assets	<u> </u>		<u></u>	3 47	6	5 70
Current tax assets Deferred tax assets	232	280	59	39	76 46	42
Derivative assets (designated for hedging)	141	59	36	121	175	161
Other assets ⁽²⁾	200	158	197	233	1.349	1.242
Total assets	₩ 310,683	₩316,295	₩340,447	₩361,981	₩399,081	US\$367,445
Liabilities						
Financial liabilities at fair value through profit or loss (IFRS 9)	₩ —	₩ —	₩ 2,283	₩ 2,958	₩ 6,814	US\$ 6,274
Financial liabilities at fair value through profit or loss (IAS 39)	3,803	3,428	_	_	_	_
Deposits due to customers	221,020	234,695	248,691	264,686	291,477	268,371
Borrowings	18,770	14,785	16,203	18,999	20,745	19,101
Debentures	23,566	27,869	28,736	30,858	37,480	34,508
Provisions	429	410 43	391	444 92	502 52	462 48
Net defined benefit liability Current tax liabilities	65 171	233	173 159	183	371	341
Deferred tax liabilities	22	233	18	134	160	148
Derivative liabilities (designated for hedging)	7	68	51	7	65	60
Other financial liabilities ⁽³⁾	21,985	13,892	21,443	17,707	14,216	13,089
Other liabilities ⁽⁴⁾	299	284	346	420	474	436
Total liabilities	₩ 290,137	₩295,730	₩318,494	₩336,488	₩372,356	US\$342,838
Equity		====				
Owners' equity						
Capital stock	₩ 3,381	₩ 3,381	₩ 3,381	₩ 3,611	₩ 3,611	US\$ 3,325
Hybrid securities	3,575	3,018	3,162	998	1,895	1,745
Capital surplus	286	286	286	626	626	576
Other equity ⁽⁵⁾	(1,468)	(1,939)	(2,214)	(2,249)	(2,347)	(2,161)
Retained earnings	14,612	15,620	17,125	18,525	19,268	17,741
Non-controlling interests	160	199	213	3,982	3,672	3,381
Total equity	₩ 20,546	₩ 20,565	₩ 21,953	₩ 25,493	₩ 26,725	US\$ 24,607
Total liabilities and equity	₩ 310,683	₩316,295	₩340,447	₩361,981	₩399,081	US\$367,445

Won amounts are expressed in U.S. dollars at the rate of \(\mathbf{W}\)1,086.1 to US\\$1.00, the noon buying rate in effect on December 31, 2020 as quoted by the Federal Reserve Bank of New York in the United States.

 $^{^{(2)}}$ For a description of "other assets," see Note 19 of the notes to our consolidated financial statements.

⁽³⁾ For a description of "other financial liabilities," see Note 25 of the notes to our consolidated financial statements.

⁽⁴⁾ For a description of "other liabilities," see Note 25 of the notes to our consolidated financial statements.

⁽⁵⁾ For a description of "other equity," see Note 28-(1) of the notes to our consolidated financial statements.

Profitability Ratios and Other Data

	Year ended December 31,						
	2016	2017	2018	2019	2020		
	(in	billions of V	Von except	percentage	s)		
Net income as a percentage of:							
Total average assets ⁽¹⁾	0.42%	0.49%	0.63%	0.57%	0.40%		
Total average equity ⁽¹⁾	6.33	7.33	9.45	8.37	5.79		
Dividend payout ratio ⁽²⁾	21.33	22.29	21.54	27.03	19.89		
Net interest spread ⁽³⁾	1.65	1.69	1.74	1.66	1.60		
Net interest margin ⁽⁴⁾	1.71	1.74	1.80	1.74	1.65		
Efficiency ratio ⁽⁵⁾	59.10	54.55	53.98	54.27	58.01		
Equity–to-average asset ratio ⁽⁶⁾	6.60	6.71	6.67	6.86	6.90		
Cost-to-average assets ratio ⁽⁷⁾	1.14	1.14	1.11	1.06	1.04		

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.

Asset Quality Data

	As of December 31,								
	2016	2017	2018	2019	2020				
	(in billions of Won, except percentages)								
Total loans ⁽¹⁾	₩236,801	₩252,793	₩262,034	₩271,993	₩303,965				
Total non-performing loans ⁽²⁾	2,080	1,853	1,329	1,157	1,236				
Other impaired loans not included in									
non-performing loans	335	374	292	229	199				
Total non-performing loans and other impaired									
loans	2,415	2,227	1,621	1,386	1,435				
Total allowance for credit losses	1,851	1,770	1,778	1,575	1,909				
Non-performing loans as a percentage of total									
loans	0.88%	0.73%	0.51%	0.43%	0.41%				
Non-performing loans as a percentage of total									
assets	0.67	0.59	0.39	0.32	0.31				
Total non-performing loans and other impaired									
loans as a percentage of total loans	1.02	0.88	0.62	0.51	0.47				
Allowance for credit losses as a percentage of									
total loans	0.78	0.70	0.68	0.58	0.63				

⁽¹⁾ 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.

⁽²⁾ Represents the ratio of total dividends declared on common stock as a percentage of net income attributable to owners.

⁽³⁾ Represents the difference between the yield on average interest-earning assets and cost of average interest-bearing liabilities.

⁽⁴⁾ Represents the ratio of net interest income to average interest-earning assets.

⁽⁵⁾ 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 (or net gain (loss) on available-for-sale financial assets) and other net operating expenses.

⁽⁶⁾ Represents the ratio of total average equity to total average assets.

⁽⁷⁾ Represents the ratio of general and administrative expenses to total average assets.

⁽²⁾ 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."

Selected Financial Information

Average Balances and Related Interest

The following tables show our average balances and interest rates for the past three years:

				Year en	ded Decen	nber 31,			
		2018			2019			2020	
	Average Balance ⁽¹⁾	Interest Income ⁽²⁾	Yield	Average Balance(1)	Income ⁽²⁾	Yield	Balance ⁽¹⁾	Interest Income ⁽²⁾	Average Yield
A4-			(in b	illions of V	Von, excep	ot percen	tages)		
Assets Interest-earning assets									
Due from banks	₩ 16 027	₩ 113	0.71%	₩ 16,045	₩ 141	0 88%	₩ 18,966	₩ 54	0.28%
Loans ⁽³⁾	W 10,027	** 113	0.7170	** 10,043	** 171	0.00 /	** 10,700	W 34	0.20 /0
Commercial and industrial	104,269	3,437	3.30	110,291	3,604	3.27	119,586	3,219	2.69
Trade financing	11,916		2.64	11,112		2.65	10,253		1.49
Lease financing ⁽⁴⁾	111	4	3.52	191	2	3.92	1,448	48	3.31
Other commercial	11,038	270	2.45	9,460	243	2.57	9,773	201	2.06
General purpose household ⁽⁵⁾	67,042	2,647	3.95	71,413	2,928	4.10	74,124	2,705	3.65
Mortgage	48,445	1,559	3.22	53,296	1,717	3.22	57,123	1,592	2.79
Credit cards ⁽²⁾	7,445	600	8.06	7,358	655	8.90	8,215	651	7.92
Total loans	250,266	8,832	3.53	263,121	9,444	3.59	280,522	8,569	3.05
Trading ⁽⁶⁾	3,955	54	1.37	4,091	51	1.25	4,518	49	1.08
Investment ⁽⁷⁾	32,404	657	2.03	43,568	911	2.09	46,718	821	1.76
Total securities	36,359	711	1.96	47,659	962	2.02	51,236	870	1.70
Other	11,990		0.23	12,809		0.23	12,416		0.25
Total average interest earning assets	314,642		3.08	339,634	10,577	3.11	363,140	9,524	2.62
Total average non-interest earning assets	11,144		_	15,428		_	16,351		_
Total average assets	₩325,786	W0 694	2.07%	₩355,062	W 10 577	2 09%	₩379,491	W 0.524	2.51%
Total average assets	W 323,780	7,004	2.91 /0	=======================================	W 10,377	2.90 /0	W 379,491	W 9,324	2.51 /0
		****		Year en	ded Decen	nber 31,			
	A	2018	A	A	2019	A	A	2020	A
	Balance ⁽¹⁾			Average Balance ⁽¹⁾			Balance ⁽¹⁾		Cost
			(in b	illions of V	Von, excep	t percen	tages)		
Liabilities									
Interest-bearing liabilities									
Deposits due to customers	W 0.510	XX 51	0.600	W 0.010	XX 25	0.426	TT 7 10 110	XX 7 40	0.400
Demand deposits	₩ 8,512 196,806		0.60%	₩ 8,213 211,732			₩ 10,110 225,563		0.48% 0.91
Certificates of deposit	5,091	2,418 104	1.23 2.04	4,760		1.33 2.21	1,677	2,056	1.31
Other deposits	26,254		1.31	28,930		1.63	34,861	360	1.03
•									
Total deposits	236,663		1.23	253,635		1.35	272,211	2,487	0.91
Borrowings	15,752		1.95 2.61	19,258		1.99 2.63	21,368		1.26 2.24
Debentures	27,613 20,146		0.44	29,536 21,426	98	0.46	32,315 21,110		0.22
Total average interest-bearing liabilities	300,174	4,033	1.34	323,855	4,683	1.45	347,004	3,526	1.02
Total average non-interest-bearing liabilities	3,896	_	_	6,855	_	_	6,300	_	_
Total average liabilities	304,070	4,033	1.33	330,710	4,683	1.42	353,304	3,526	1.00
Total average equity	21,716		_	24,352			26,187		_
							-,,		
Total average liabilities and equity	111225 706	XX/1 022	1 2401	₩355,062	W// 602	1 2207	₩379,491	W2 526	0.93%

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

- (2) Interest income from credit cards is derived from interest on credit card loans and credit card installment purchases.
- (3) Not including other financial assets, and prior to deducting allowance for credit losses and present value discount or reflecting deferred origination costs.
- (4) Includes automobile lease financing to consumer borrowers.
- (5) Includes home equity loans.
- (6) Includes financial assets at fair value through profit or loss.
- (7) Includes financial assets at fair value through other comprehensive income and securities at amortized cost.

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 2019 compared to 2018 and 2020 compared to 2019. 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.

	Incr	019 vs. 2018 ease/(decreate to changes	ase)	2020 vs. 2019 Increase/(decrease) due to changes in					
	Volume Rate To		Total	tal Volume R		Total			
			(in billi	ons of Wo	n)				
Interest-earning assets									
Due from banks	₩ —	₩ 28	₩ 28	₩ 26	₩ (113)	₩ (87)			
Loans ⁽¹⁾	400				(600)	(.			
Commercial and industrial	199	(32)	167	304	(689)	(385)			
Trade financing	(21)	1	(20)	(23)	(119)	(142)			
Lease financing ⁽²⁾	3	(5)	(2)	49	(3)	46			
Other commercial	(39)	12	(27)	8	(50)				
General purpose household ⁽³⁾	173	108	281	111	(334)	(223)			
Mortgage	156	2	158	123	(248)	(125)			
Credit cards	(7)	62	55	76	(80)	(4)			
Securities									
Trading ⁽⁴⁾	2	(5)	(3)	5	(7)	(2)			
Investment ⁽⁵⁾	227	27	254	66	(156)	(90)			
Other	2		2	(1)	2	1			
Total interest income	₩695	₩ 198	₩893	₩744 ====	₩(1,797)	₩(1,053)			
Interest-bearing liabilities									
Deposits due to customers									
Demand deposits	₩ (2)	₩ (14)	₩(16)	₩ 8	₩ 6	₩ 14			
Time and savings deposits	184	212	396	184	(942)	(758)			
Certificates of deposit	(7)	8	1	(68)	(15)	(83)			
Other deposits	35	92	127	97	(208)	(111)			
Borrowings	68	8	76	42	(155)	(113)			
Debentures	50	7	57	73	(127)	(54)			
Other	6	3	9	(1)	(51)	(52)			
Total interest expense	₩334	₩ 316	₩650	₩335	₩(1,492)	₩(1,157)			
Net interest income	₩361	₩(118)	₩243	₩409	₩ (305)	₩ 104			

Not including other financial assets and prior to deducting allowance for credit losses and present value discount or reflecting deferred origination costs.

⁽²⁾ Includes automobile lease financing to consumer borrowers.

⁽³⁾ Includes home equity loans.

⁽⁴⁾ Includes financial assets at fair value through profit or loss.

⁽⁵⁾ Includes financial assets at fair value through other comprehensive income and securities at amortized cost.

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 \(\frac{\pi}{79,371}\) billion, or 30.3\% of our total loans, as of December 31, 2018, \(\forall 85,367\) billion, or 31.4\(\text{\psi}\) of our total loans, as of December 31, 2019 and ₩97,476 billion, or 32.1% as of December 31, 2020. As of December 31, 2020, Won-denominated loans to small- and medium-sized enterprises that were classified as substandard or below were \(\frac{\pma}{4}\)470 billion, representing 0.5% of such loans to those enterprises. See "Item 4.B. Business Overview—Corporate Banking— Small and Medium-Sized Enterprise Banking." We recorded charge-offs of \(\forall 219\) billion in respect of our Won-denominated loans to small- and medium-sized enterprises in 2020, compared to charge-offs of ₩185 billion in 2019 and ₩199 billion in 2018. 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 2019 and 2020. 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 0.5% as of December 31, 2018, 0.4% as of December 31, 2019 and 0.3% as of December 31, 2020. Our delinquency ratio may increase in 2021 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 deteriorating financial condition and liquidity position of small- and medium-sized enterprises in Korea as a result of the global financial crisis commencing in the second half of 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 Korean banks, including Woori Bank, to 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 \\ \forall 99.7 \text{ billion as of December 31, 2020, which represented 0.1% 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 2021 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 14 Korean banks, including Woori Bank, to extend special low-rate loans to small merchants affected by the COVID-19 pandemic beginning in

April 2020. The aggregate amount of such loans extended by the Korean banks is expected to be \(\frac{\text{\$\text

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, starting from June 2020, the Bank of Korea early implemented Basel III standards relating to lowering the 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 hurt 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 the supply chains, declines in the sales and deterioration in the financial conditions of small- and medium-sized enterprises. 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, 2020, the total amount of loans provided by us to construction, shipbuilding and shipping companies in Korea amounted to \(\frac{\text{\$\psi}}{4}\),573 billion, \(\frac{\text{\$\psi}}{4}\)32 billion and \(\frac{\text{\$\psi}}{4}\)426 billion, or 1.5%, 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.

Although the construction industry in Korea has shown signs of recovery since 2015, excessive investment in residential property development projects, the strengthening of mortgage and other lending regulations by the Korean government, stagnation of real property prices and reduced demand for residential property in areas outside of the Seoul metropolitan area, are expected to continue to negatively impact the construction industry. The shipbuilding industry in Korea has experienced a severe downturn in recent years reflecting a significant decrease in ship orders, primarily due to adverse conditions in the global economy and the resulting slowdown in global trade. In the case of shipping companies in Korea, reduced shipping rates and high chartering costs, together with the slowdown in global trade, have contributed to the deterioration of their financial condition, requiring some of them to file for bankruptcy or pursue voluntary restructuring of their debt.

In response to the deteriorating financial condition and liquidity position of borrowers in the Korean construction, shipbuilding and shipping industries, which were disproportionately impacted by adverse domestic and global economic developments, the Korean government implemented a program in 2009 to promote expedited restructuring of such borrowers by their Korean creditor financial institutions, under the supervision of major commercial banks. In accordance with such program, 24 construction companies and five shipbuilding companies became subject to workout in 2009, following review by their creditor financial institutions (including us) and the Korean government. Each year since 2009, the Financial Services Commission and the Financial Supervisory Service have announced the results of subsequent credit risk evaluations conducted by creditor financial institutions (including us) of certain companies in Korea, pursuant to which a number of companies were selected by such financial institutions for restructuring in the form of workout, liquidation or court receivership. However, there is no assurance that these measures will be successful in stabilizing the Korean construction, shipbuilding and shipping industries.

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, 2020, the total amount of loans provided by us to companies in the hotel, leisure and transportation industries amounted to an aggregate \$\forall 9,150\$ billion, or 3.0% 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, 2020, our 20 largest exposures to corporate borrowers (including loans, debt and equity securities, credit-related commitments and other exposures) totaled \(\pi\)55,650 billion, which represented 11.5% of our total exposures. As of that date, our single largest corporate exposure was to the Korea Development Bank, to which we had outstanding credits in the form of debt securities of \(\pi\)10,559 billion and loans in Won of \(\pi\)33 billion, representing 2.2% of our total exposures in the aggregate. Aside from exposure to the Korean government and government-related agencies, our next largest exposure was to NH Investment & Securities Co., Ltd., to which we had outstanding exposure of \(\pi\)2,329 billion representing 0.5% 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 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.

Of our 20 largest corporate exposures as of December 31, 2020, three were to companies that were members of the 27 largest *chaebols* in Korea. As of that date, the total amount of our exposures to the 27 largest *chaebols* was \(\frac{\text{\$\psi}}{20,347}\) billion, or 4.2% of our total exposures. If the credit quality of our exposures to *chaebols* declines as a result of financial difficulties they experience or for other reasons, we could incur additional provisions for credit loss, which would hurt our results of operations and financial condition. See "Item 4.B. Business Overview—Assets and Liabilities—Loan Portfolio—Exposure to Chaebols."

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 companies that are in or in the future 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, 2020, our credit exposures to companies that were in workout or corporate restructuring amounted to \\ \footnote{\text{H}}181\) billion or 0.04% of our total credit exposures, of which \\ \footnote{\text{H}}166\) billion or 91.7% 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 \(\footnote{\text{H}}65\) billion, or 35.9% 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, 2020 to companies in workout or restructuring amounted to \(\footnote{\text{H}}181\) billion, or 0.04% 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.

In recent years, consumer debt has increased rapidly in Korea. Our portfolio of consumer loans amounted to \\17,096 billion as of December 31, 2018, \\124,003 billion as of December 31, 2019 and \\138,119 billion as of December 31, 2020. Our credit card portfolio amounted to \\180,051 billion as of December 31, 2018, \\180,399 billion as of December 31, 2019 and \\180,543 billion as of December 31, 2020. As of December 31, 2020, our consumer loans and credit card receivables represented 45.4% and 2.8% of our total lending, respectively. See "Item 4.B. Business Overview—Consumer Banking—Lending Activities" and "Item 4.B. Business Overview—Credit Cards—Products and Services."

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 \#309 billion (or 0.3% of our consumer loan portfolio) as of December 31, 2018, \#314 billion (or 0.3% of our consumer loan portfolio) as of

December 31, 2019 and \(\forall 295\) billion (or 0.2% of our consumer loan portfolio) as of December 31, 2020. We charged off consumer loans amounting to \(\forall 182\) billion in 2020, as compared to \(\forall 217\) billion in 2019 and \(\forall 204\) billion in 2018, and recorded provisions for credit loss in respect of consumer loans of \(\forall 131\) billion in 2020, as compared to \(\forall 163\) billion in 2019 and \(\forall 192\) billion in 2018. 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 \(\forall 33,486\) billion, or 28.6% of our total outstanding consumer loans, as of December 31, 2018, \(\forall 35,981\) billion, or 29.0% of our total outstanding consumer loans, as of December 31, 2019, and \(\forall 35,211\) billion, or 25.5% of our total outstanding consumer loans, as of December 31, 2020.

W110 billion, or 1.4% of our credit card receivables, as of December 31, 2018, ₩110 billion, or 1.3% of our credit card receivables, as of December 31, 2019 and ₩88 billion, or 1.0% of our credit card receivables, as of December 31, 2020. In line with industry practice, we have restructured a portion of our delinquent credit card account balances as loans. As of December 31, 2020, these restructured loans amounted to ₩131 billion, or 1.5% 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 for 2.5% of our credit card balances as of December 31, 2020. We charged off credit card balances amounting to ₩246 billion in 2020, as compared to ₩281 billion in 2019 and ₩243 billion in 2018, and recorded provisions for credit loss in respect of credit card balances of ₩188 billion in 2020, as compared to ₩236 billion in 2019 and ₩213 billion in 2018. Delinquencies may increase in the future as a result of, among other things, adverse economic conditions in Korea, additional government regulation or the inability of Korean consumers to manage increased household debt.

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 hurt 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 2020 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. A decrease in housing prices as a result of the implementation of such measures, 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.

In light of adverse conditions in the Korean economy affecting consumers, 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 reductions are provided to retail borrowers with total loans of less than ₩1.5 billion (consisting of no more than

₩500 million of unsecured loans and ₩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 ₩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 2020 was ₩49.3 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 areas of high speculation designated by the government where we generally limit our lending to 40% 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 our secured loans. 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, many 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 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) in a private sale 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. Pursuant to a commitment made by the KDIC in connection with such bidding process, five persons, each nominated by one of the winning bidders, were elected as new outside directors at an extraordinary general meeting of Woori Bank's shareholders held in December 2016. In December 2018, five persons, each nominated by one of such winning bidders, were elected at an extraordinary general meeting of Woori Bank's shareholders to serve as our outside directors upon our establishment. See "Item 6.A. Directors and Senior Management—Board of Directors—Outside Directors." 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 2.94% of its outstanding common stock). As a result of such transactions, the KDIC's ownership interest in Woori Bank was reduced to 18.43%.
- 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 2.00% of our outstanding common stock) in a block trade. As a result of such transaction, the KDIC currently owns 15.25% 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, is likely to have a significant impact on us. For example, the KDIC's sale of its ownership interest in us to a small number of 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 such sale 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—Future sales by the KDIC of the shares of our common stock it owns 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 Corp., 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 14 branches throughout the country. In June 2018, Woori Bank acquired VisionFund (Cambodia) Ltd., a microfinance deposit-taking institution in Cambodia, which was renamed WB Finance Co., Ltd. In February 2020, with the approval of the Cambodian financial authorities, Woori Finance (Cambodia) Plc., a microfinance institution, merged with and into WB Finance Co., Ltd. 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, in anticipation of greater competition and declining lending margins. Historically, our primary source of revenues has been net interest income from our banking operations at Woori Bank. To date, except for fees collected in connection with credit cards, trust management, bancassurance, mutual funds and currency transfers (including foreign exchange-related commissions), as well as our investment funds and investment banking activities, we have not generated substantial fee income. We intend to develop new sources of fee income as part of our business strategy, including through our current investment banking and asset management businesses and mergers and acquisitions of non-banking businesses which we may decide to pursue through our financial holding company structure. See "Item 4.B. Business Overview—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, including bancassurance and investment products, as increasingly important sources of revenue. In the area of credit cards, Korean banks and credit card companies have in the past engaged in aggressive marketing activities and made significant investments, contributing to some extent to lower profitability and asset quality problems previously experienced with respect to credit card receivables. 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 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. We plan to implement several new innovative financial services through such financial regulatory sandbox, such as Woori Card's non-resident foreigner services for international wire transfers and credit card rent payments, in the third quarter of 2021. Over 130 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, 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. We expect competition between traditional financial institutions and fintech firms to intensify, particularly with respect to asset management services, as MyData services are expected to expand in the second half of 2021.

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.

Furthermore, 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, K bank, the first Internet-only bank in Korea, in which Woori Bank owns 19.9% of the equity with voting rights, commenced operations, and in July 2017, Kakao Bank, a mobile-only bank, commenced operations. In December 2019, Toss Bank obtained preliminary approval to operate as an Internet-only bank from the Financial Services Commission and is expected to be granted final approval by June 2021.

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 to create Mirae Asset Daewoo Securities Co., Ltd. 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 BS Financial Group, respectively. See "Item 4.A. History and Development of the Company—Privatization Plan." 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. Furthermore, in 2020, Hana Financial Group acquired The-K Non-Life Insurance Co., Ltd. to form Hana Insurance Co., Ltd., KB Financial Group acquired The Prudential Life Insurance Company of Korea Ltd., and Shinhan Financial Group acquired the venture capital firm Neoplux.

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 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.

Such risks have had a negative impact on our results of operations in 2020 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, 2020, our total loans (including payment guarantees) subject to such program amounted to \(\frac{\text{H}}{1},820\) billion. Although the program was originally scheduled to expire in September 2020, it has been extended twice and is currently expected to end in September 2021. However, the Korean government has signaled that the program's expected termination date is subject to change based on discussions with affected financial institutions after on a comprehensive review of the following factors at the time: (i) the current state of the pandemic, (ii) the conditions of the Korean economy and (iii) the stability of the financial industry. For further information regarding our exposure to such loan deferment program, see Note 3 of the notes to our consolidated financial statements included elsewhere in this annual report.

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 2021 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;
- 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;
- a deterioration in economic and trade relations between the United States and its major trading partners, including China;
- the slowdown of economic growth in China and other major emerging market economies;

- · increased uncertainties resulting from the United Kingdom's exit from the European Union; and
- 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.

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 recently been subject to significant volatility as a result of the COVID-19 pandemic. 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. Notwithstanding the Korean government's efforts to stabilize such volatility through aggressive fiscal and financial policies, including through the execution of a bilateral currency swap agreement with the U.S. Federal Reserve for the provision of US\$60 billion in exchange for Won-denominated treasury bonds in March 2020 and the Bank of Korea's reduction of its policy rate to the unprecedented level of 0.50% in May 2020, 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."

Our risk management system may not be effective in mitigating risk and loss.

We seek to monitor and manage our risk exposure through a standardized risk management system, encompassing 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 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, 2020, the aggregate amount of assets we had provided as collateral for our secured borrowings was ₩13,932 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 reduced its policy rate to 2.00% through a series of reductions from 2012 to 2014 to support Korea's economy in light of the slowdown in Korea's growth and uncertain global economic prospects. The Bank of Korea further reduced its policy rate to 1.50% in 2015 and again to 1.25% in June 2016 amid deflationary concerns and interest rate cuts by central banks around the world. While the Bank of Korea increased its policy rate 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, 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. Moreover, the Bank of Korea further reduced its policy rate to unprecedented levels of 0.75% in March 2020 and 0.50% in May 2020 amid rising concerns of a potential global recession as a result of the COVID-19 pandemic. 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.

In March 2021, the U.K. Financial Conduct Authority, or the FCA, which has regulatory authority with respect to LIBOR, announced that all LIBOR settings will either cease to be provided by any administrator or no longer be representative (i) after December 31, 2021 in the case of all sterling, euro, Swiss franc and Japanese yen settings and the one-week and two-month U.S. dollar settings and (ii) after June 30, 2023 in the case of the remaining U.S. dollar settings. While the ICE Benchmark Administration, the administrator of LIBOR, may publish certain LIBOR settings on the basis of a synthetic methodology for "tough legacy" contracts, there is no guarantee that such rates will be determined and published after the announced deadlines nor confirmed to be representative by the FCA.

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 issue, trade, hold or otherwise use various products and securities that reference LIBOR, including, among others, loans, securities, deposits, borrowings, derivatives and debentures, and have adopted specific measures for its cessation. See "Item 5.A. Operating Results—Overview—Cessation of LIBOR."

If not sufficiently planned for, the discontinuation of LIBOR or any other interest rate benchmark could result in increased financial, operational, legal, reputational and/or compliance risks. For example, a significant challenge will be managing the impact of the LIBOR transition on the contractual mechanics of LIBOR-based financial instruments and contracts that mature after the announced deadlines. Certain of these instruments and contracts may not provide for alternative reference rates. Even if such instruments and contracts provide for 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. For example, the Secured Overnight Financing Rate, or SOFR,

has been identified by the Alternative Reference Rates Committee convened by the Board of Governors of the U.S. Federal Reserve System and the Federal Reserve Bank of New York as the preferred alternative benchmark reference rate for LIBOR and differs from LIBOR in many respects, including its basis on actual observed transactions in the U.S. Treasury market as opposed to LIBOR's usage of estimations of borrowing rates. 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 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, 2020, approximately 96.2% 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 hurt 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, 2020, 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 Korea Housing Finance Corporation and the Industrial Bank of Korea, among others) with a total book value of \(\frac{\psi}{6}\),030 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 references 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, 2020, 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, 2020, our common equity Tier I capital, Tier I capital and combined Tier I and Tier II capital adequacy ratios were 10.00%, 11.78% and 13.84%, respectively, and Woori Bank's common equity Tier I capital, Tier I capital and combined Tier I and Tier II capital adequacy ratios were 13.14%, 15.03% and 17.34%, 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 new 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 2020 and 2021, 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 for 2020 by the Financial Services Commission and was subject to an additional capital requirement of 1.0% in 2020. In June 2020, we and Woori Bank were again each designated as a domestic systemically important bank holding company and a domestic systemically important bank, respectively, for 2021, which subjects us and Woori Bank to the additional capital requirement of 1.0% in 2021. 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 may become subject to sanctions 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 upon activities or transactions within U.S. jurisdiction with certain countries, governments, entities and individuals that are the subject of OFAC sanctions, including Iran. 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 U.S. sanctions. The European Union also enforces certain laws and regulations that impose restrictions upon 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. The United Nations Security Council and other governmental entities (including Korea) 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 foreign parties that engage in targeted transactions with no connection to U.S. jurisdiction. Secondary sanctions are maintained 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 persons providing material support to designated entities. 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. U.S. secondary sanctions apply even when no such jurisdictional nexus exists, and companies 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 company has an interest, which would include a prohibition on transactions or dealings within U.S. jurisdiction involving securities of the sanctioned company. Financial institutions engaging in targeted activity 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 highly discretionary and not automatic, requiring further 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 2020, 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 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. 8, 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 the U.S. 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 are in accordance with U.S. sanctions laws. In 2020, our total fee revenue from such activities amounted to approximately \(\formallow\)0.58 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 approximately \(\formallow\)0.58 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. In 2020, 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 applicable U.S. secondary sanctions. In 2020, our total fee revenue from the relevant telegraphic transfer services amounted to approximately \(\forall 0.29\) 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 approximately \(\forall 0.29\) million.
- We also maintain a limited number of deposit accounts in Korea for an Iranian financial institution that
 were opened prior to it becoming subject to U.S. 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 2020.

While we do not believe that our past activities relating to Iran violated OFAC sanctions or are sanctionable under applicable U.S. secondary sanctions, 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.

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. 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.

Our business and reputation could be adversely affected if the U.S. government were to determine that our past activities relating to Iran violated OFAC sanctions or involved sanctionable activity 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.

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 on 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. On December 3, 2020, OFAC concluded its investigation with a cautionary letter as its final enforcement action; however, the investigations by other U.S. government agencies have not been formally concluded and may continue to require our cooperation. It is not possible to predict the outcome of such investigations at this time, and there can be no assurance that such investigation will not result in an unfavorable outcome or adversely affect our business or 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 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. 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. Although we have made substantial and continual investments to build systems and defenses to address cybersecurity and other technological risks, there is no guarantee that such measures or any other measures can provide adequate security and stability. 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 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 service 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. Treble 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 Act on the Financial Consumer Protection Framework became effective as of March 25, 2021. Under the Act, we as a financial instrument distributor will be 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.

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, the Korean government 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. See "—Risks relating to our consumer credit portfolio—We may experience increases in delinquencies in our consumer loan and credit card portfolios."

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 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;
- mergers with other financial institutions;
- acquisition of us by a third party; and
- suspensions of a part or all of our business operations.

If any of these measures are imposed on us by the Financial Services Commission, they could hurt 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 growth and uncertainty, and starting in 2020, the overall Korean economy and the economies of Korea's major trading partners have shown signs of deterioration due to the debilitating effects of the COVID-19 pandemic. 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." 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, 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 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 and increased uncertainties resulting from the United Kingdom's
 exit from the European Union;
- 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 (such as the ongoing trade disputes with Japan);
- increased sovereign default risks 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;
- 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 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. 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, most recently in December 2017, in response to North Korea's intercontinental ballistic missile test in November 2017. Over the years, the United States and the European Union have also expanded their sanctions applicable to North Korea.

- In August 2015, two Korean soldiers were injured in a landmine explosion near the Korean
 demilitarized zone. Claiming the landmines were set by North Koreans, the Korean army reinitiated its
 propaganda program toward North Korea utilizing loudspeakers near the demilitarized zone. In
 retaliation, the North Korean army fired artillery rounds on the loudspeakers, resulting in the highest
 level of military readiness for both Koreas.
- 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 one hundred 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 3.7% in 2017 to 3.8% in 2018 and 2019 and 4.5% in 2020. 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. Furthermore, the government's privatization plan with respect to us contemplates the sale of its remaining ownership interest in us to one or more third parties, which may lead to labor unrest among our employees. See "Item 4.A. History and Development of the Company—Privatization Plan." 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.

In addition, the KDIC currently owns 110,159,443 shares, or 15.25%, of our outstanding common stock, and IMM Private Equity, Inc., through its special purpose company Nobis1, Inc., currently owns 40,560,000 shares, or 5.62%, 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, including a sale by the KDIC for the purpose of recovering the public funds it injected into us. For example, in accordance with the Korean government's privatization plan, the KDIC sold 40,143,022 shares of Woori Bank's common stock (representing 5.9% of its outstanding common stock) in a private sale in Korea in December 2014 and 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 December 2016 and January 2017. 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 2.94% of its outstanding common stock). After our establishment, in April 2021, pursuant to its plan to sell all of our common stock it owned by 2022 that was approved by the Financial Services Commission, the KDIC sold an aggregate of 14,445,354 shares of our common stock (representing 2.00% of our outstanding common stock) in a block trade. 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 expect the KDIC to sell all or a portion of the shares of our common stock it owns to one or more purchasers in the future.

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.

Future sales by the KDIC of the shares of our common stock it owns 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 our largest shareholder, the KDIC, disposes of 50% or more of the shares of our common stock it received in the stock transfer within two years from the end of 2019 (the fiscal year in which the date of the stock transfer falls), 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 surtax) 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 surtax) 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. Accordingly, if you received our common stock or ADSs in the stock transfer, future sales by the KDIC of the shares of our common stock it owns 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 on February 14, 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 3,186.1 on April 23, 2021. 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

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 http://www.woorifg.com.

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. It accomplished this by having the Financial Services Commission issue a capital reduction order with respect to these banks pursuant to its regulatory authority. The Korean government also decided to recapitalize these banks by injecting public funds through the KDIC. In December 2000, the KDIC made initial capital injections to Hanvit Bank (\text{\club Y2,764 billion}), Kyongnam Bank (\text{\club Y259 billion}), Kwangju Bank (\text{\club 170 billion}) and Peace Bank of Korea (\text{\club Y273 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 (\text{\club 1,877 billion}), Kyongnam Bank (\text{\club 94 billion}), Kwangju Bank (\text{\club 273 billion}) and Peace Bank of Korea (\text{\club 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, 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. The merged entity, in which Woori Banks holds a 79.9% 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 Corp., 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, which was renamed WB Finance Co., Ltd. In February 2020, with the approval
 of the Cambodian financial authorities, Woori Finance (Cambodia) Plc., a microfinance institution,
 merged with and into WB Finance Co., Ltd.
- 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, many 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 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) in a private sale 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. Pursuant to a commitment made by the KDIC in connection with such bidding process, five persons, each nominated by one of the winning bidders, were elected as new outside directors at an extraordinary general meeting of Woori Bank's shareholders held in December 2016. In December 2018, five persons, each nominated by one of such winning bidders, were elected at an extraordinary general meeting of Woori Bank's shareholders to serve as our outside directors upon our establishment. See "Item 6.A. Directors and Senior Management—Board of Directors—Outside Directors." 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 2.94% of its outstanding common stock). As a result of such transactions, the KDIC's ownership interest in Woori Bank was reduced to 18.43%. 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 2.00% of our outstanding common stock) in a block trade. As a result of such transaction, the KDIC currently owns 15.25% of our outstanding common stock.

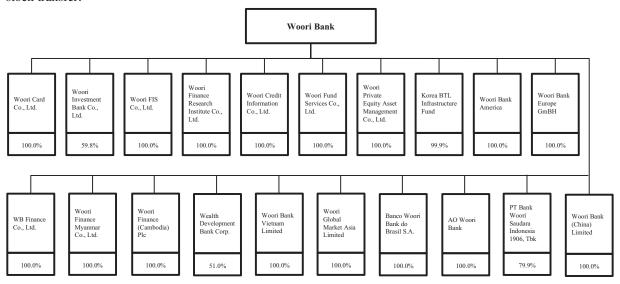
In December 2016, in connection with the KDIC's sale of shares of Woori Bank's common stock, Woori Bank entered into an agreement with the KDIC, pursuant to which Woori Bank was required to use its best efforts to cause an employee of the KDIC nominated by it to be appointed as Woori Bank's non-standing 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). While such agreement with Woori Bank expired, in July 2019, we entered into an agreement with the KDIC with similar terms. See "Item 10.C. Material Contracts."

Establishment of Woori Financial Group

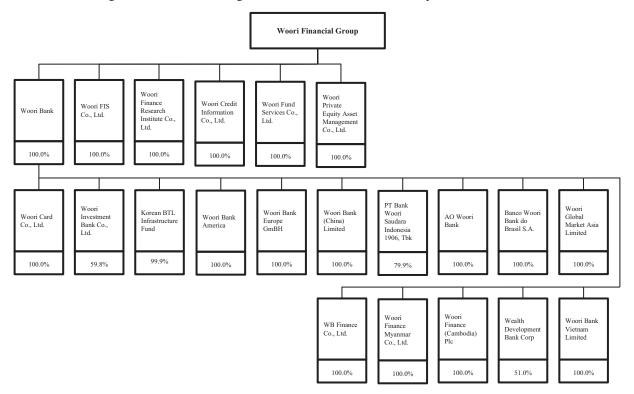
We were established as a new financial holding company on January 11, 2019 pursuant to a "comprehensive stock transfer" under Korean law, whereby holders of the common stock of Woori Bank and certain of its

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 \(\frac{\pmathbf{H}}{16,079}\) 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 \(\frac{\pmathbf{H}}{184}\) 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, and we no longer hold any treasury shares as of the date of this annual report.

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 \$\foware\$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 \$\foware 358\$ billion and 13,212,670 of such shares in block trades in November 2019. As a result of such transactions, the number of our outstanding shares of common stock increased to 722,267,683.

- 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 ₩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., the eighth largest credit card issuer in Korea, according to BC Research, which is a quarterly report issued by BC Card. 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, at which point we will 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 \(\frac{\pm}{\pm}\)572 billion. Notwithstanding the foregoing, for accounting purposes, Woori Financial Capital Co., Ltd. became our consolidated subsidiary in October 2020. See "Item 15. Controls and Procedures—Management's Annual Report on Internal Control Over Financial Reporting." 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. In April 2021, we acquired an additional 12.9% equity interest in Woori Financial Capital Co., Ltd. from Aju Corporation, as a result of which our aggregate equity interest in Woori Financial Capital Co., Ltd. became 86.9%.

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 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, 2020, we had, on a consolidated basis, total assets of \(\fomage 399,081\) billion, total liabilities of \(\fomage 372,356\) billion and total equity of \(\fomage 26,725\) 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 9 of the 28 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, 2020, we had 374,973 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 23.8 million retail customers, representing about half of the Korean adult population. Of these customers, over 9.8 million are active customers, meaning that they have a deposit account with us with a balance of at least \#300,000 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 821 branches and 4,531 ATMs and cash dispensers as of December 31, 2020. Through Woori Bank, we also operate 11 dedicated corporate banking centers and 92 general managers for our large corporate customers and 861 relationship managers stationed at 706 branches (as well as 280 additional non-stationed employees who serve as relationship managers as needed) for our small- and medium-sized enterprise customers as of December 31, 2020. 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, 2020, our consolidated equity totaled \(\foatharrow\)27 trillion, and our total capital adequacy ratio was 13.84%. 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. 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 Aju Capital Co., Ltd. in 2020, which became our consolidated subsidiaries. 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;
- 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 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 declining and was 0.41% as of December 31, 2020.

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 at Woori Bank. We plan to undertake 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.

In addition, we use a value at risk, or "VaR," monitoring system for managing market risk. We intend to vigorously maintain a manageable risk profile and balance that risk profile with adequate returns. We believe that our continuous 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, K bank, formed by a consortium with KT Corporation and 20 other companies, in which we, through Woori Bank, own 19.9% of the equity with voting rights, 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. We expect to provide services utilizing MyData, including personal financial management (PFM) and personal expenditure management (PEM) services.

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 470 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, which was renamed PT Bank Woori Saudara Indonesia 1906, Tbk. In October 2016, Woori Bank acquired a 51% equity interest in Wealth Development Bank Corp., 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 Corp., 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 2018, Woori Bank acquired VisionFund (Cambodia) Ltd., a microfinance deposit-taking institution in Cambodia, which was renamed WB Finance Co., Ltd., and established a German subsidiary, Woori Bank Europe GmbH, which is headquartered in Frankfurt. In February 2020, with the approval of the Cambodian financial authorities, Woori Finance (Cambodia) Plc., a microfinance institution, merged with and into WB Finance Co., Ltd., and further expanded Woori Bank's network of local deposit-taking services, as a result of which Woori Bank has a presence in over 20 countries with over 440 branches and offices outside Korea. In 2016, Woori Card expanded overseas by establishing TuTu Finance-WCI Myanmar Co., Ltd., microfinance firm, in Myanmar.

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,					
	2018	2019	2020			
	Amount	% of Total Amount	% of Total Amount	% of Total		
		(in billions of Won, ex	ccept percentages)			
Loans(1):						
Small- and medium-sized enterprise ⁽²⁾	₩ 79,371	30.3% ₩ 85,367	31.4% ₩ 97,476	32.1%		
Large corporate ⁽³⁾	38,256	14.6 31,058	11.4 35,994	11.8		
Others ⁽⁴⁾	19,260	7.4 23,167	8.5 23,833	7.8		
Total	₩136,887	52.3% W 139,592	51.3% W 157,303	51.8%		
Deposits:						
Small- and medium-sized enterprise	₩ 46,753	18.8% ₩ 52,998	20.0% ₩ 56,809	19.5%		
Large corporate	75,128	30.2 76,943	29.1 91,972	31.6		
Total	₩121,881	49.0% W 129,941	49.1% W 148,781	51.0%		
Number of borrowers:						
Small- and medium-sized enterprise	306,424	325,749	374,973			
Large corporate	5,389	6,046	6,620			

⁽¹⁾ 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.

(4) Includes loans to governmental agencies, foreign loans and other corporate loans.

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.

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 \(\formall 500\) 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 management independence from ownership as prescribed by

⁽²⁾ 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."

⁽³⁾ 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 \(\foat{\textbf{W}}12\) billion or more and are therefore subject to external audit under the Act on External Audits of Stock Companies. See "—Large Corporate Banking."

the Enforcement Decree of the Framework Act on Small and Medium Enterprises. However, pursuant to an amendment to the Framework Act on Small and Medium Enterprises, 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 (as defined in the Framework Act on Cooperatives), as well as cooperatives, federations and national federations (as defined in the Consumer 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, 2020, 21.5% of our small- and medium-sized enterprise loans were extended to borrowers in the manufacturing industry, 16.6% were extended to borrowers in the retail and wholesale industries, and 7.2% 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, 2020, Woori Bank had stationed one or more relationship managers at 706 branches, of which 331 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, 2020, Woori Bank had a total of 861 small- and medium-sized enterprise relationship managers stationed at its branches (as well as 280 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, 2020, working capital loans and facilities loans accounted for 45.3% and 52.0% respectively, of our total small- and medium-sized enterprise loans. As of December 31, 2020, we had 374,973 small- and medium-sized enterprise borrowers.

As of December 31, 2020, secured loans and loans guaranteed by a third party accounted for 80.5% and 5.2%, respectively, of our small- and medium-sized enterprise loans. As of December 31, 2020, approximately 74.3% of the secured loans were secured by real estate and 0.7% 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, 2020, approximately 67.9% 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 \(\foldam{W}\)12 billion or more and are therefore subject to external audit under the Act on External Audits 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, 2020, 36.8% of our large corporate loans were extended to borrowers in the manufacturing industry, 36.8% were extended to borrowers in the finance and insurance industries, and 7.3% 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 11 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, 2020, Woori Bank had a total of 92 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, 2020, working capital loans (including domestic usance, bills bought and securities sold under repurchase agreements) and facilities loans accounted for 70.2% and 17.9% 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, 2020, secured loans and loans guaranteed by a third party accounted for 17.2% and 4.1%, 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, 2020, approximately 62.9% of the secured loans were secured by real estate and approximately 2.7% 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, 2020, approximately 86.9% 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,							
	20	018	2	019	2020				
	Amount(1)	% of Total Loans ⁽²⁾	Amount(1)	% of Total Loans ⁽²⁾	Amount(1)	% of Total Loans ⁽²⁾			
	(in billions of Won, except percentage)								
General purpose household									
loans	₩ 39,492	15.1%	₩ 40,870	15.0%	₩ 43,850	14.4%			
Mortgage loans	51,280	19.6	54,511	20.1	62,274	20.5			
Home equity loans	26,324	10.0	28,622	10.5	31,995	10.5			
Total	₩117,096	44.7%	₩124,003	45.6%	₩138,119	45.4%			

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

⁽²⁾ 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.

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 areas of high speculation designated by the government where we generally limit our lending to 40% 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 Korea Investors Service which is collated in our Credit Wizard system. We generally revalue collateral on a periodic basis. As of December 31, 2020, 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 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, 2020, approximately \(\formalfontarrow\)32,014 billion, or 73.0%, 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. We currently use the "Cost of Fund Index" (or COFIX) benchmark rate, as announced by the Korea Federation of Banks, as the base rate for our general purpose household loans with periodic floating rates in place of the benchmark certificate of deposit rate that we had traditionally used for such purpose.

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, 2020, approximately 58.9% 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 35 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, 2020, approximately 65.5% of our mortgage and home equity loans were secured by residential or other property, 25.1% of our mortgage and home equity loans were guaranteed by Korean government-related housing funds and 3.4% 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, 2020, we had issued unsecured construction loans relating to housing where construction was not completed in the amount of \(\frac{\text{\text{W}}}{3},197\) billion. For the year ended December 31, 2020, the average initial loan-to-value ratio of our mortgage loans and home equity loans was approximately 54.8% and 39.2%, respectively, compared to 58.3% and 45.4% for the year ended December 31, 2019. The average loan-to-value ratio of our mortgage loans and home equity loans as of December 31, 2020 was approximately 48.2% and 40.7%, respectively, compared to 53.2% and 46.4% as of December 31, 2019.

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, 2020, approximately 55.8% 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, 2020, we had 220,119 customers who qualified for private banking services, representing 0.9% of our total retail customer base. Of the total deposits of our retail unit of \\ \pm\$109.5 trillion as of December 31, 2020, high net worth and mass affluent customers accounted for 62.0%.

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 \$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 689 branches that offer private banking services. These branches are staffed by 715 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 17 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 nation-wide branch network. The balance of our deposits from retail customers was \(\foware \Psi \)95,146 billion as of December 31, 2018, \(\foware \Psi \)106,255 billion as of December 31, 2019, and \(\foware \Psi \)115,835 billion as of December 31, 2020 which constituted 38.2%, 40.1% and 39.7%, 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;
- *installment deposits*, which generally require the customer to make periodic deposits of a fixed amount over a fixed term during which interest accrues at a fixed rate. Early withdrawals require penalty payment. The term for installment deposits range from six months to five years; and
- 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.

The following table sets forth the percentage of our total retail and corporate deposits represented by each deposit product category as of December 31, 2020:

Demand Deposits	Time Deposits	Savings Deposits	Installment Deposits	Certificates of Deposit
11.13%	48.88%	39.27%	0.01%	0.71%

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 installment deposits and decreases with certificate of deposit accounts 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 Committee 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 is 7%. 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 deposit insurance system insures up to a total of \$\psi_50\$ million per depositor per bank. 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, 2020, we paid an aggregate of \$\psi_371\$ billion of such premiums and contributions.

Branch Network and Other Distribution Channels

Woori Bank had a total of 821 banking branches in Korea as of December 31, 2020, 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, 2020:

	Tot	al
	Number	% of Total
Area		
Seoul	370	45.1
Six largest cities (other than Seoul)	138	16.8
Other	313	38.1
Total	821	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 4,531 ATMs and cash dispensers as of December 31, 2020.

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,					
	2018		2019			2020
ATMs ⁽¹⁾ :						
Number of transactions (millions)		296		272		213
Fee income (billions of Won)	₩	36	₩	32	₩	25
Telephone banking:						
Number of users		6,360,743		6,336,310		6,315,007
Number of transactions (millions)		148		143		126
Fee income (billions of Won)	₩	2	₩	1.5	₩	0.9
Internet banking:						
Number of users	1	7,387,658	1	7,975,675	1	18,545,393
Number of transactions (millions)		7,660		10,116		17,082
Fee income (billions of Won)	₩	178	₩	199	₩	191

⁽¹⁾ 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. In 2015, we launched the first mobile-only banking service in Korea, called WiBee Bank. In addition, we provide general mobile banking services through our Woori WON Banking mobile application. We 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, 2020, Woori Card's market share based on transaction volume was approximately 8.5%, which ranked Woori Card as the sixth largest credit card issuer in Korea, according to BC Research, which is a quarterly report issued by BC Card.

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 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., the eighth largest credit card issuer in Korea, according to BC Research.

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" and "Union Pay" 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 period indicated:

Jean of credit card holders (at year end) (thousands of holders) (This ins of weat substitute voluments of holders) Number of credit card holders (at year end) (thousands of holders) 12,255 31,000 31,3157 Ceoprate accounts 400 555 36,300 Total 22,738 55,000 56,538 Credit card interest and fees 82,248 82,429 82,629 80,729 80,729 80,729 80,729 80,729 80,729 80,729 80,729 80,729 80,729 80,729 80,729 80,7		As of or for the year ended December 31,				er 31,	
Number of credit card holders (at year end) (thousands of holders) General accounts		2	018	2	019	2	020
General accounts 12,255 13,000 13,157 Corporate accounts 460 555 563 Total 12,985 13,555 13,720 Active ratio ⁽¹⁾ 52,73% 55,00% 56,53% Credit card interest and fees 1 24 W 243 W 226 Annual membership fees 78 86 90 Merchant fees 943 918 888 90 Merchant fees 943 918 888 06 64 66 64 64 62 63 64 62 63 6		(in bil	lions of W	on, un	less indica	ted otl	nerwise)
Corporate accounts 460 555 563 Total 12,985 13,555 13,720 Active ratio ⁽¹⁾ 52,73% 55,50% 56,53% Credit card interest and fees 224 243 22 26 Annual membership fees 78 86 90 Merchant fees 943 918 88 Other fees 606 640 644 Total W1,851 W1,885 W1,848 Charge volumes 8,201 7,912 10,225 Cash advance 4,859 4,862 4,314 Card loan 3,306 8,1200 W79,337 Outstanding balances (at year end) 607 855 483							
Total 12,985 13,555 13,720 Active ratio() 52,73% 55,00% 56,53% Credit card interest ant fees 18,24 * 243 * 226 Installment and cash advance interest 78 86 90 Merchant fee 943 918 888 Other fees 660 640 644 Total * 1,851 * 1,885 * 1,848 Charge volumes * 1,851 * 1,885 * 1,848 Charge volumes * 8,201 7,712 10,225 Cash advance 8,201 7,912 10,225 Cash advance 8,201 7,912 10,225 Cash advance 8,201 7,921 10,225 Cash advance * 8,512 * 88,100 * 79,377 Outstanding balances (at year end) * 8,052 * 3,142 * 3,064 4,010 General purchase * 8,055 * 8,435 * 8,221 * 2,997 Cash advance * 9,00 * 8,52 * 8,11 * 8,12		1		1		1	
Active ratio ⁽¹⁾ 52,73% 55,00% 56,53% Credit card interest and fees W 224 W 243 W 226 Annual membership fees 78 86 90 Merchant fees 943 918 888 Other fees 606 640 644 Total W 1,851 W 1,885 W 1,848 Charge volumes W 1,851 W 1,885 W 1,848 Charge volumes 8,201 7,912 10,225 Cash advance W 75,318 W 81,200 W79,377 Outstanding balances (at year end) W 3,057 W 3,243 W 3,060 M	•						
Credit card interest and fees W 224 W 243 W 264 Annual membership fees 78 86 90 Merchant fees 943 918 888 00 66 640 644 644 644 666 640 644 644 666 640 644 666 640 644 644 666 640 644 644 666 640 644 666 640 644 666 640 644 660 640 644 660 640 644 660 640 644 660 660 640 660 660 640 660	Total	1	2,985	1	3,555	1	3,720
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Merchant fees 943 918 888 Other fees 606 640 644 Total ***1,851 ***1,885 ***1,848 Charge volumes ***0,185 ***1,885 ***1,848 General purchase ***2,805 ***64,762 ***60,228 Installment purchase 8,201 7.912 10,225 Cash advance 4,859 4,862 4,314 Carl Joan 3,306 3,664 4,610 Total ***7,318 ***8,1200 ***79,377 Outstanding balances (at year end) ***8,1200 ***79,377 Outstanding balances (at year end) ***2,089 1,969 2,022 Cash advance 607 585 483 Carl Joan 2,305 2,611 2,997 Total ***8,058 ***8,408 ***8,562 Average outstanding balances ***8,058 ***8,408 ***8,562 Average outstanding balances ***8,058 ***8,408 ***8,562 Average outstanding balances		₩		₩		₩	
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General purchase W58,952 W64,762 W60,228 Installment purchase 8,201 7,912 10,225 Cash advance 4,859 4,862 4,314 Card loan 3,306 3,664 4,610 Total W75,318 W81,200 W79,377 Outstanding balances (at year end) W8,057 W3,243 W3,060 General purchase 2,089 1,969 2,022 Cash advance 607 585 483 Card loan 2,305 2,611 2,997 Total W8,058 W8,408 W8,562 Average outstanding balances W8,058 W8,408 W8,562 Average outstanding balances W3,036 W3,292 W3,199 Installment purchase 1,911 2,046 1,934 Cash advance 596 591 523 Card loan 2,391 2,567 2,861 Total W7,934 W8,496 W8,517 Delinquency ratios ⁽²⁾ Less than 1 month	Total	₩	1,851	₩	1,885	₩	1,848
Installment purchase 8,201 7,912 10,225 Cash advance 4,859 4,862 4,314 Card loan 3,306 3,664 4,610 Total ₩75,318 ₩81,200 ₩79,377 Outstanding balances (at year end) \$\$\$\$ \$\$\$\$ \$\$\$\$\$ \$\$\$\$\$\$\$\$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$	Charge volumes						
Cash advance 4,859 4,862 4,314 Card loan 3,306 3,664 4,610 Total W75,318 W81,200 W79,377 Outstanding balances (at year end) \$3,057 W 3,243 W 3,060 Installment purchase 2,089 1,969 2,022 Cash advance 607 585 483 Card loan 2,305 2,611 2,997 Total W 8,058 W 8,408 W 8,562 Average outstanding balances W 3,036 W 3,292 W 3,199 Installment purchase 1,911 2,046 1,934 Cash advance 596 591 523 Card loan 2,391 2,567 2,861 Total W 7,934 W 8,496 W 8,517 Delinquency ratios ⁽²⁾ 1.53 1.19 0.85 From 1 month to 3 months 0.72 0.65 0.51 From 3 months to 6 months 0.64 0.65 0.51 From 3 months to 6 months 0.04 0.	General purchase	₩5	8,952	₩6	4,762	₩6	0,228
Card loan 3,306 3,664 4,610 Total ₩75,318 ₩81,200 ₩79,377 Outstanding balances (at year end) \$	Installment purchase		8,201		7,912	1	0,225
Total ₩75,318 ₩81,200 ₩79,377 Outstanding balances (at year end) \$3,057 ₩3,243 ₩3,060 Installment purchase 2,089 1,969 2,022 Cash advance 607 585 483 Card loan 2,305 2,611 2,997 Total ₩8,058 ₩8,408 ₩8,562 Average outstanding balances \$3,036 ₩3,292 ₩3,199 Installment purchase 1,911 2,046 1,934 Cash advance 596 591 523 Card loan 2,391 2,567 2,861 Total ₩7,934 ₩8,496 ₩8,517 Delinquency ratios(2) W8,517 W8,517 Less than 1 month 1.53 1.19 0.85 From 1 month to 3 months to 6 months 0.64 0.65 0.51 Over 6 months 0.00 0.00 0.00 Total 2.89% 2.49% 1.88% Non-performing loan ratio(3) 0.87% 0.87% 0.77% </td <td></td> <td></td> <td></td> <td></td> <td>*</td> <td></td> <td>*</td>					*		*
Outstanding balances (at year end) W 3.057 W 3.243 W 3.060 Installment purchase 2,089 1,969 2,022 Cash advance 607 585 483 Card loan 2,305 2,611 2,997 Total W 8,058 W 8,408 W 8,562 Average outstanding balances W 3,036 W 3,292 W 3,199 Installment purchase 1,911 2,046 1,934 Cash advance 596 591 523 Card loan 2,391 2,567 2,861 Total W 7,934 W 8,496 W 8,517 Delinquency ratios(2) Less than 1 month 1.53 1.19 0.85 From 1 month to 3 months 0.72 0.65 0.51 From 3 months to 6 months 0.04 0.65 0.51 From 3 months to 6 months 0.04 0.65 0.51 Form 4 month 0.00 0.00 0.00 0.00 Over 6 months 0.08 0.87% 0.87% 0.71% <td>Card loan</td> <td></td> <td>3,306</td> <td></td> <td>3,664</td> <td></td> <td>4,610</td>	Card loan		3,306		3,664		4,610
General purchase W 3,057 W 3,243 W 3,060 Installment purchase 2,089 1,969 2,022 Cash advance 667 585 483 Card loan 2,305 2,611 2,997 Total W 8,058 W 8,408 W 8,562 Average outstanding balances W 3,036 W 3,292 W 3,199 Installment purchase 1,911 2,046 1,934 Cash advance 596 591 523 Card loan 2,391 2,567 2,861 Total W 7,934 W 8,496 W 8,517 Delinquency ratios(2) 2 Less than 1 month 1.53 1.19 0.85 From 1 month to 3 months to 6 months 0.72 0.65 0.51 From 3 months to 6 months 0.00 0.00 0.00 Total 2.89% 2.49% 1.88% Non-performing loan ratio(3) 0.00 0.00 0.00 Gross charge-offs W 242 W 281 W 246 Recov	Total	₩7	5,318	₩8	1,200	₩7	9,377
General purchase W 3,057 W 3,243 W 3,060 Installment purchase 2,089 1,969 2,022 Cash advance 667 585 483 Card loan 2,305 2,611 2,997 Total W 8,058 W 8,408 W 8,562 Average outstanding balances W 3,036 W 3,292 W 3,199 Installment purchase 1,911 2,046 1,934 Cash advance 596 591 523 Card loan 2,391 2,567 2,861 Total W 7,934 W 8,496 W 8,517 Delinquency ratios(2) 2 Less than 1 month 1.53 1.19 0.85 From 1 month to 3 months to 6 months 0.72 0.65 0.51 From 3 months to 6 months 0.00 0.00 0.00 Total 2.89% 2.49% 1.88% Non-performing loan ratio(3) 0.00 0.00 0.00 Gross charge-offs W 242 W 281 W 246 Recov	Outstanding balances (at year end)						
Cash advance 607 585 483 Card loan 2,305 2,611 2,997 Total W 8,058 W 8,408 W 8,562 Average outstanding balances General purchase W 3,036 W 3,292 W 3,199 Installment purchase 1,911 2,046 1,934 Cash advance 596 591 523 Card loan 2,391 2,567 2,861 Total W 7,934 W 8,496 W 8,517 Delinquency ratios(2) Less than 1 month 1.53 1.19 0.85 From 1 month to 3 months 0.72 0.65 0.51 From 3 months to 6 months 0.64 0.65 0.51 Over 6 months 0.00 0.00 0.00 Total 2.89% 2.49% 1.88% Non-performing loan ratio(3) 0.87% 0.71% Gross charge-offs W 242 W 281 W 246 Recoveries 57 60 65 Net charge-offs </td <td></td> <td>₩</td> <td>3,057</td> <td>₩</td> <td>3,243</td> <td>₩</td> <td>3,060</td>		₩	3,057	₩	3,243	₩	3,060
Card loan 2,305 2,611 2,997 Total ₩ 8,058 ₩ 8,408 ₩ 8,562 Average outstanding balances \$\$\$\$ 3,036 ₩ 3,292 ₩ 3,199 Installment purchase 1,911 2,046 1,934 Cash advance 596 591 523 Card loan 2,391 2,567 2,861 Total ₩ 7,934 ₩ 8,496 ₩ 8,517 Delinquency ratios(2) \$\$\$\$\$\$\$ \$\$\$\$\$ \$\$\$\$\$ \$\$\$\$\$ Less than 1 month 1.53 1.19 0.85 From 1 month to 3 months 0.72 0.65 0.51 From 3 months to 6 months 0.64 0.65 0.51 Over 6 months 0.00 0.00 0.00 Total 2.89% 2.49% 1.88% Non-performing loan ratio(3) 0.87% 0.87% 0.71% Gross charge-offs ₩ 242 ₩ 241 ₩ 246 Recoveries 57 60 65 Net charge-offs ₩ 185 ₩ 2	Installment purchase		2,089		1,969		2,022
Total ₩ 8,058 ₩ 8,408 ₩ 8,562 Average outstanding balances \$\$\$\$ 3,036 ₩ 3,292 ₩ 3,199 Installment purchase 1,911 2,046 1,934 Cash advance 596 591 523 Card loan 2,391 2,567 2,861 Total ₩ 7,934 ₩ 8,496 ₩ 8,517 Delinquency ratios(2) \$	Cash advance		607		585		483
Average outstanding balances W 3,036 W 3,292 W 3,199 Installment purchase 1,911 2,046 1,934 Cash advance 596 591 523 Card loan 2,391 2,567 2,861 Total W 7,934 W 8,496 W 8,517 Delinquency ratios(2) Less than 1 month 1.53 1.19 0.85 From 1 month to 3 months 0.72 0.65 0.51 From 3 months to 6 months 0.64 0.65 0.51 Over 6 months 0.00 0.00 0.00 Total 2.89% 2.49% 1.88% Non-performing loan ratio(3) 0.87% 0.87% 0.71% Gross charge-offs W 242 W 281 W 246 Recoveries 57 60 65 Net charge-offs W 185 W 221 W 181 Gross charge-off ratio(4) 3.04% 3.31% 2.89%	Card loan		2,305		2,611		2,997
General purchase W 3,036 W 3,292 W 3,199 Installment purchase 1,911 2,046 1,934 Cash advance 596 591 523 Card loan 2,391 2,567 2,861 Total W 7,934 W 8,496 W 8,517 Delinquency ratios(2) Less than 1 month 1.53 1.19 0.85 From 1 month to 3 months 0.72 0.65 0.51 From 3 months to 6 months 0.64 0.65 0.51 Over 6 months 0.00 0.00 0.00 Total 2.89% 2.49% 1.88% Non-performing loan ratio(3) 0.87% 0.87% 0.71% Gross charge-offs W 242 W 281 W 246 Recoveries 57 60 65 Net charge-offs W 185 W 221 W 181 Gross charge-off ratio(4) 3.04% 3.31% 2.89%	Total	₩	8,058	₩	8,408	₩	8,562
General purchase W 3,036 W 3,292 W 3,199 Installment purchase 1,911 2,046 1,934 Cash advance 596 591 523 Card loan 2,391 2,567 2,861 Total W 7,934 W 8,496 W 8,517 Delinquency ratios(2) Less than 1 month 1.53 1.19 0.85 From 1 month to 3 months 0.72 0.65 0.51 From 3 months to 6 months 0.64 0.65 0.51 Over 6 months 0.00 0.00 0.00 Total 2.89% 2.49% 1.88% Non-performing loan ratio(3) 0.87% 0.87% 0.71% Gross charge-offs W 242 W 281 W 246 Recoveries 57 60 65 Net charge-offs W 185 W 221 W 181 Gross charge-off ratio(4) 3.04% 3.31% 2.89%	Average outstanding balances						
Installment purchase 1,911 2,046 1,934 Cash advance 596 591 523 Card loan 2,391 2,567 2,861 Total ₩ 7,934 ₩ 8,496 ₩ 8,517 Delinquency ratios(2) Less than 1 month 1.53 1.19 0.85 From 1 month to 3 months 0.72 0.65 0.51 From 3 months to 6 months 0.64 0.65 0.51 Over 6 months 0.00 0.00 0.00 Total 2.89% 2.49% 1.88% Non-performing loan ratio(3) 0.87% 0.87% 0.71% Gross charge-offs ₩ 242 ₩ 281 ₩ 246 Recoveries 57 60 65 Net charge-offs ₩ 185 ₩ 221 ₩ 181 Gross charge-off ratio(4) 3.04% 3.31% 2.89%		₩	3.036	₩	3.292	₩	3.199
Cash advance 596 591 523 Card loan 2,391 2,567 2,861 Total ₩ 7,934 ₩ 8,496 ₩ 8,517 Delinquency ratios(2) 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 1 9 0.85 5 1 2 8 2 0.65 0.51 1 3 0.1 2 0.65 0.51 0.51 0.00	*						*
Card loan 2,391 2,567 2,861 Total ₩ 7,934 ₩ 8,496 ₩ 8,517 Delinquency ratios(2) Less than 1 month 1.53 1.19 0.85 From 1 month to 3 months 0.72 0.65 0.51 From 3 months to 6 months 0.64 0.65 0.51 Over 6 months 0.00 0.00 0.00 Total 2.89% 2.49% 1.88% Non-performing loan ratio(3) 0.87% 0.87% 0.71% Gross charge-offs ₩ 242 ₩ 281 ₩ 246 Recoveries 57 60 65 Net charge-offs ₩ 185 ₩ 221 ₩ 181 Gross charge-off ratio(4) 3.04% 3.31% 2.89%	1				,		,
Total ₩ 7,934 ₩ 8,496 ₩ 8,517 Delinquency ratios(2) Less than 1 month 1.53 1.19 0.85 From 1 month to 3 months 0.72 0.65 0.51 From 3 months to 6 months 0.64 0.65 0.51 Over 6 months 0.00 0.00 0.00 Total 2.89% 2.49% 1.88% Non-performing loan ratio(3) 0.87% 0.87% 0.71% Gross charge-offs ₩ 242 ₩ 281 ₩ 246 Recoveries 57 60 65 Net charge-offs ₩ 185 ₩ 221 ₩ 181 Gross charge-off ratio(4) 3.04% 3.31% 2.89%							
Less than 1 month 1.53 1.19 0.85 From 1 month to 3 months 0.72 0.65 0.51 From 3 months to 6 months 0.64 0.65 0.51 Over 6 months 0.00 0.00 0.00 Total 2.89% 2.49% 1.88% Non-performing loan ratio(3) 0.87% 0.87% 0.71% Gross charge-offs W 242 W 281 W 246 Recoveries 57 60 65 Net charge-offs W 185 W 221 W 181 Gross charge-off ratio(4) 3.04% 3.31% 2.89%		₩	7,934	₩	8,496	₩	8,517
Less than 1 month 1.53 1.19 0.85 From 1 month to 3 months 0.72 0.65 0.51 From 3 months to 6 months 0.64 0.65 0.51 Over 6 months 0.00 0.00 0.00 Total 2.89% 2.49% 1.88% Non-performing loan ratio(3) 0.87% 0.87% 0.71% Gross charge-offs W 242 W 281 W 246 Recoveries 57 60 65 Net charge-offs W 185 W 221 W 181 Gross charge-off ratio(4) 3.04% 3.31% 2.89%	Delinquency ratios(2)				=====		
From 1 month to 3 months 0.72 0.65 0.51 From 3 months to 6 months 0.64 0.65 0.51 Over 6 months 0.00 0.00 0.00 Total 2.89% 2.49% 1.88% Non-performing loan ratio(³) 0.87% 0.87% 0.71% Gross charge-offs ₩ 242 ₩ 281 ₩ 246 Recoveries 57 60 65 Net charge-offs ₩ 185 ₩ 221 ₩ 181 Gross charge-off ratio(⁴) 3.04% 3.31% 2.89%	1 7		1.53		1 10		0.85
From 3 months to 6 months 0.64 0.65 0.51 Over 6 months 0.00 0.00 0.00 Total 2.89% 2.49% 1.88% Non-performing loan ratio(3) 0.87% 0.87% 0.71% Gross charge-offs ₩ 242 ₩ 281 ₩ 246 Recoveries 57 60 65 Net charge-offs ₩ 185 ₩ 221 ₩ 181 Gross charge-off ratio(4) 3.04% 3.31% 2.89%							
Over 6 months 0.00 0.00 0.00 Total 2.89% 2.49% 1.88% Non-performing loan ratio(³) 0.87% 0.87% 0.71% Gross charge-offs ₩ 242 ₩ 281 ₩ 246 Recoveries 57 60 65 Net charge-offs ₩ 185 ₩ 221 ₩ 181 Gross charge-off ratio(⁴) 3.04% 3.31% 2.89%							
Total 2.89% 2.49% 1.88% Non-performing loan ratio(3) 0.87% 0.87% 0.71% Gross charge-offs ₩ 242 ₩ 281 ₩ 246 Recoveries 57 60 65 Net charge-offs ₩ 185 ₩ 221 ₩ 181 Gross charge-off ratio(4) 3.04% 3.31% 2.89%							
Non-performing loan ratio(3) 0.87% 0.87% 0.71% Gross charge-offs ₩ 242 ₩ 281 ₩ 246 Recoveries 57 60 65 Net charge-offs ₩ 185 ₩ 221 ₩ 181 Gross charge-off ratio(4) 3.04% 3.31% 2.89%		-					
Gross charge-offs W 242 W 281 W 246 Recoveries 57 60 65 Net charge-offs W 185 W 221 W 181 Gross charge-off ratio ⁽⁴⁾ 3.04% 3.31% 2.89%			====				
Recoveries 57 60 65 Net charge-offs $$\mathbb{W}$$ 185 $$\mathbb{W}$$ 221 $$\mathbb{W}$$ 181 Gross charge-off ratio ⁽⁴⁾ 3.04% 3.31% 2.89%	1 6			***		•••	
Net charge-offs	e			₩		₩	
Gross charge-off ratio ⁽⁴⁾	Recoveries		57		60		65
e	Net charge-offs	₩	185	₩	221	₩	181
e	Gross charge-off ratio ⁽⁴⁾		3.04%		3.31%		2.89%
	Net charge-off ratio ⁽⁵⁾		2.33%		2.61%		2.13%

⁽¹⁾ 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 2.5% of our credit card balances as of December 31, 2020.

(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, 2018, 2019 and 2020:

	As	of December 3	31,
	2018	2019	2020
	(in	billions of Wo	on)
Restructured loans	₩137	₩154	₩123

- (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 more than one month overdue and in excess of W1 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, 2020, the total amount of our restructured loans was W131 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 36 months, up to a maximum loan amount of \(\forall \forall 30\) 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 20.5% 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 6.4% to 23.8% 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 Woori V Card, 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, 2020, we charged merchants an average of 1.35% 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, 2020, 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 \(\forall 54,186\) billion and represented 13.6% 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, 2020, we held debt securities with a total book value of \$52,534 billion, of which:

- debt securities at amortized cost accounted for ₩17,021 billion, or 32.4%;
- debt securities at fair value through other comprehensive income accounted for \(\formall 28,948\) billion, or 55.1%; and
- debt securities at fair value through profit or loss accounted for \(\fomtgar{W}6,565\) billion, or less than 12.5%.

Of these amounts, as of December 31, 2020, debt securities issued by the Korean government amounted to \$6,946 billion, or 40.8% of our debt securities at amortized cost, \$2,923 billion, or 10.1% of our debt securities at fair value through other comprehensive income, and \$1,020 billion, or 15.5% 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, 2020:

- equity securities at fair value through other comprehensive income had a book value of \(\mathbf{W}\)1,081 billion, or 3.6% of our securities at fair value through other comprehensive income portfolio; and
- equity securities at fair value through profit or loss accounted for \\ \psi 571\) billion, or 8.0% 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 was \(\mathbb{W}\)324,410 billion in 2018, \(\mathbb{W}\)371,500 billion in 2019 and \(\mathbb{W}\)353,659 billion in 2020. Our aggregate net trading gain (loss) from derivatives for the years ended December 31 2018, 2019 and 2020 was \(\mathbb{W}\)91 billion, \(\mathbb{W}\)(12) billion and \(\mathbb{W}\)320 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;
- foreign exchange forwards, swaps, options and futures, relating to foreign exchange risks;
- commodity derivatives, which we provide to customers that wish to hedge their commodities exposure;
 and
- credit derivatives, which we provide to financial institutions that wish to hedge existing credit exposures or take on credit exposure to generate revenue.

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,						
	20	18	20	19	20	020	
	Estimated Fair Value of Assets	Estimated Fair Value of Liabilities	Estimated Fair Value of Assets	Estimated Fair Value of Liabilities	Estimated Fair Value of Assets	Estimated Fair Value of Liabilities	
			(in billion	s of Won)			
Currency derivatives	₩1,623	₩ 1,571	₩2,433	₩2,146	₩5,926	₩5,288	
Interest rate derivatives	229	279	313	423	325	530	
Equity derivatives	174	241	176	274	651	642	
Total	₩2,026	₩2,091	₩2,922	₩2,843	₩6,902	₩6,460	

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 2020, we were involved in asset securitization transactions with an initial aggregate issue amount of $\mathbf{W}1,860$ billion and generated total fee income of approximately $\mathbf{W}1.1$ 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 2020, we generated investment banking revenue of approximately \text{\$\psi}505\$ billion from gains on investment in foreign bonds and equity securities and fees from advisory and other services.

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,				
2018	2019	2020		
(in millions of US\$)				
US\$ 35,587	US\$ 40,060	US\$ 46,150		
872	115	383		
4,167	4,427	3,858		
6,336	7,509	7,681		
US\$ 11,375	US\$ 12,051	US\$ 11,922		
	2018 (i) US\$ 35,587 872 4,167 6,336	2018 2019 (in millions of US\$ US\$ 35,587 US\$ 40,060 872 115 4,167 4,427		

The table below sets forth the overseas subsidiaries and direct branches of Woori Bank in operation as of December 31, 2020:

Subsidiaries:Woori America BankUnited StatesPT Bank Woori Saudara Indonesia 1906, TbkIndonesiaWoori Global Markets Asia LimitedChina (Hong Kong)Woori Bank (China) LimitedChinaAO Woori BankRussiaBanco Woori Bank do Brasil S.A.BrazilWoori Finance Myanmar Co., Ltd.Myanmar
PT Bank Woori Saudara Indonesia 1906, Tbk Woori Global Markets Asia Limited Woori Bank (China) Limited AO Woori Bank Banco Woori Bank do Brasil S.A. Indonesia China (Hong Kong) Russia Brazil
Woori Global Markets Asia LimitedChina (Hong Kong)Woori Bank (China) LimitedChinaAO Woori BankRussiaBanco Woori Bank do Brasil S.A.Brazil
Woori Bank (China) Limited
AO Woori Bank
Banco Woori Bank do Brasil S.A. Brazil
Woori Finance Myanmar Co., Ltd. Myanmar
Wealth Development Bank Corporation Philippines
Woori Bank Vietnam Limited Vietnam
WB Finance Co., Ltd
Woori Bank Europe GmbH
Branches, Agencies and Representative Offices:
London Branch
Tokyo Branch Japan
Singapore Branch Singapore
Hong Kong Branch
Bahrain Branch Bahrain
Dhaka Branch Bangladesh
Gaeseong Branch ⁽²⁾ Korea
New York Agency
Los Angeles Branch
Chennai Branch India
Sydney Branch Australia
Dubai Branch
Gurgaon Branch India
Mumbai Branch India
Kuala Lumpur Representative Office
Yangon Representative Office
Iran Representative Office ⁽³⁾ Iran
Katowice Representative Office Poland

⁽¹⁾ Does not include subsidiaries and branches in liquidation or dissolution.

⁽²⁾ Due to the shutdown of the Gaeseong Industrial Complex in February 2016, the Gaeseong Branch is currently located at our corporate headquarters in Seoul.

⁽³⁾ 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, 2020, Woori America Bank had total assets of US\$2,306 million and shareholders' equity of US\$304 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 and it currently has branches in Moscow and St. Petersburg and a representative office in Vladivostok.

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, 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. The merged entity, in which Woori Bank holds a 79.9% equity interest, was renamed PT Bank Woori Saudara Indonesia 1906, Tbk and became Woori Bank's consolidated subsidiary. As of December 31, 2020, PT Bank Woori Saudara Indonesia 1906, Tbk had total assets of US\$2,743 million and shareholders' equity of US\$515 million.

In October 2016, Woori Bank acquired a 51% equity interest in Wealth Development Bank Corp., a thrift bank in the Philippines with a network of 25 branches and over 400 employees as of December 31, 2020.

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 14 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 Corp. In June 2018, Woori Bank acquired VisionFund (Cambodia) Ltd., a microfinance deposit-taking institution in Cambodia, which was renamed WB Finance Co., Ltd. In February 2020, with the approval of the Cambodian financial authorities, Woori Finance (Cambodia) Plc., a microfinance institution, merged with and into WB Finance Co., Ltd. As of December 31, 2020, WB Finance Co., Ltd. had total assets of US\$779 million and shareholders' equity of US\$229 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, 2020, Woori Bank Europe GmbH had total assets of US\$297 million and shareholders' equity of US\$42 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 \(\forall 177\) billion in 2018, \(\forall 171\) billion in 2019 and \(\forall 86\) billion in 2020.

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 December 31,					
	201	18	20	19	20	020
		(iı	n billions	of Wo	n)	
Principal and interest guaranteed trusts	₩	1	₩	1	₩	_
Principal guaranteed trusts	1.	,409	1	,401		1,361
Performance trusts	36	,451	36	,288	3′	7,315
Total	₩37.	,861	₩37	,690	₩3	8,676

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, 2020, our money trusts had invested in securities with an aggregate book value of \(\formall^{10},645\) billion, which accounted for approximately 26.9% of our money trust assets. Debt securities accounted for \(\formall^{6},170\) 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, 2020, equity securities held by our money trusts amounted to \(\foware 4,475\) billion, which accounted for approximately 11.3% of our money trust assets. Of this amount, \(\foware 13\) 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, 2020, our money trusts had made loans in the aggregate principal amount of \(\formall \)8,675 billion

(excluding loans to our banking operations of $\mathbb{W}1,792$ billion), which accounted for approximately 21.9% of our money trust assets.

The amounts due from banks consist of local currency and foreign currencies. As of December 31, 2020, such amounts due from banks totaled \(\forall 17,919\) billion, which accounted for approximately 45.3% 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 2020.

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 2020, 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, 2020, the balance of our property trusts totaled $\frac{1}{2}$ 000 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, 2020. 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,
	2020(1)
	(in billions of Won)
Securities funds	₩23,101
Real estate funds	567
Special asset funds	
Mixed asset funds	56
Money market funds	5,381
Total	₩30,392

⁽¹⁾ 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 2020.

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, 2020, we acted as a trustee for 4,077 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, 2020, our fee income from such services was \text{\text{\$\psi}}16 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, 2020, outstanding housing loans from the National Housing and Urban Fund amounted to approximately \(\fomage \)122.5 trillion, of which we originated approximately \(\fomage \)66.7 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, a loan origination fee and a management 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. The management fee is based on the monthly average of the number of outstanding accounts and the monthly average of the number of overdue loans owed to the National Housing and Urban Fund. We received total fees of approximately \(\formall \perp 48.3\) billion for managing the National Housing and Urban Fund in 2020.

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 2020, we generated fee income of approximately \textbf{W}84.2 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. In 2018 and 2019, Woori PEAM launched three private equity funds for which it acted as general partner, Woori-Hanwha Eureka Private Equity Fund, the size of which was approximately \(\formalfont{W}\)43.5 billion, Woori-Shinyoung Growth-Cap Private Equity Fund I, the size of which was approximately \(\psi\)163 billion, and Woori-Q Corporate Restructuring Private Equity Fund, the size of which was approximately \(\foatsymbol{W}\)155 billion. As of December 31, 2020, Woori PEAM managed a total of 17 alternative investment funds (other than the three private equity funds mentioned above) with total investments of \(\forall 1.4\) trillion and total managed assets of \(\forall 791\) 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, asset management and bancassurance, 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, Korean banks and credit card companies have in the past engaged in aggressive marketing activities and made significant investments, contributing to some extent to lower profitability and asset quality problems previously experienced with respect to credit card receivables.

In addition, 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. We plan to implement several new innovative financial services through such financial regulatory sandbox, such as Woori Card's non-resident foreigner services for international wire transfers and credit card rent payments, in the third quarter of 2021. Over 130 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, 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. We expect competition between traditional financial institutions and fintech firms to intensify, particularly with respect to asset management services, as MyData services are expected to expand in the second half of 2021.

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.

Furthermore, 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, K bank, the first Internet-only bank in Korea, in which

Woori Bank owns 19.9% of the equity with voting rights, commenced operations, and in July 2017, Kakao Bank, a mobile-only bank, commenced operations. In December 2019, Toss Bank obtained preliminary approval to operate as an Internet-only bank from the Financial Services Commission and is expected to be granted final approval by June 2021.

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 to create Mirae Asset Daewoo Securities Co., Ltd. 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 BS Financial Group, respectively. See "Item 4.A. History and Development of the Company—Privatization Plan." 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. Furthermore, in 2020, Hana Financial Group acquired The-K Non-Life Insurance Co., Ltd. to form Hana Insurance Co., Ltd., KB Financial Group acquired The Prudential Life Insurance Company of Korea Ltd., and Shinhan Financial Group acquired the venture capital firm Neoplux.

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, 2020, the balance of our total loan portfolio was \(\foathbalance\) 33,965 billion. As of December 31, 2020, 90.0% of our total loans were Won-denominated loans and 10.0% of our total loans were denominated in other currencies. Of the \(\foathbalance\) 30,429 billion of foreign currency-denominated loans as of that date, approximately 73.4% 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.

	As of December 31,							
	2016	2017	2018	2019	2020			
		(ir	n billions of Wo	n)				
Domestic:								
Corporate ⁽¹⁾ :								
Commercial and industrial	₩ 88,968	₩ 93,320	₩ 96,283	₩100,829	₩114,525			
Lease financing	7	25	55	77	858			
Trade financing	10,699	9,290	9,649	6,766	7,293			
Other commercial	12,923	21,283	16,177	13,748	15,931			
Total corporate	112,597	123,918	122,164	121,420	138,607			
Consumer:								
General purpose household	30,684	34,374	36,962	37,605	40,210			
Mortgage	47,630	47,476	51,280	54,511	62,274			
Home equity	24,486	25,513	26,324	28,622	31,995			
Total consumer	102,800	107,363	114,566	120,738	134,479			
Credit cards	6,674	6,827	8,051	8,399	8,543			
Total domestic	222,071	238,108	244,781	250,557	281,629			
Foreign:								
Corporate ⁽²⁾ :								
Commercial and industrial	10,540	9,632	11,837	15,544	16,384			
Trade financing	2,156	2,655	2,186	1,782	1,482			
Other commercial	350	471	700	845	829			
Total corporate	13,046	12,758	14,723	18,171	18,695			
Consumer	1,684	1,927	2,530	3,265	3,641			
Total foreign	14,730	14,685	17,253	21,436	22,336			
Total loans ⁽³⁾	₩236,801	₩252,793	₩262,034	₩271,993	₩303,965			
Less: present value discount	(14)	(11)	(10)	(7)	(7)			
Less: deferred origination costs (fees)	464	511	574	621	744			
Less: allowance for credit losses	(1,851)	(1,770)	(1,778)	(1,575)	(1,909)			
Total loans, net	₩235,400	₩251,523	₩260,820	₩271,032	₩302,793			

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

Loan Concentrations

On a consolidated basis, our exposure to any single borrower or any single *chaebol* 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

⁽²⁾ Including loans made to banks.

⁽³⁾ 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.

addition, Woori Bank's exposure to any single borrower or any single *chaebol* is limited by the Bank Act to 20% and 25%, respectively, of its total Tier I and Tier II capital.

20 Largest Exposures by Borrower

As of December 31, 2020, our exposures to our 20 largest borrowers or issuers totaled \$55,650 billion and accounted for 11.5% of our total exposures. The following table sets forth our total exposures to those borrowers or issuers as of that date:

Company (Credit Rating)(1)	Rating)(1) Loans Won Foreign Equity Debt and currency currency securities securities acceptances of the company of the currency currency securities acceptances of the currency currency securities acceptances of the currency securities acceptance of the currency s						Collateral ⁽²⁾	Amounts classified as substandard or below ⁽³⁾
- surprise (state state g)					lions of Won)			
Korea Development				·	ŕ			
Bank (AAA)	₩ —	₩ 33	₩ —	₩10,559	₩ —	₩10,592	₩ —	₩—
Korean Government ⁽⁴⁾	_	_		10,475	_	10,475	_	_
The Bank of Korea ⁽⁴⁾	1,380	_	_	6,237	_	7,617	_	_
Industrial Bank of								
Korea (AAA)	95	33	_	5,717	_	5,845	30	_
Korea Housing Finance								
Corporation (AAA)	_	_	_	5,736	_	5,736	_	_
NH Investment & Securities								
Co., Ltd. (AA+)	2,329	_	_	_	_	2,329	64	_
Samsung Electronics Co., Ltd.								
(AAA)	230	1,877	5	_	1	2,113	_	_
Export-Import Bank of Korea								
(AAA)		_	_	1,615	_	1,615	_	
Meritz Securities Co., Ltd.								
(AA-)	1,219	_	_	_	_	1,219	_	_
KB Securities (AA+)	950	_	_	10	_	960	_	_
Kiwoom Securities Co.,								
Ltd. (AA-)	910	_	_	_	_	910	_	_
NongHyup Bank (AAA)	390	114	_	338	_	842	317	_
LG Display (A+)	676	109	_	_	_	785	_	_
Korea SMEs and Startups								
Agency (AAA)	_	_	_	763	_	763	_	_
Hana Financial Investment								
Co., Ltd. (AA)	709	_			_	709	_	_
Kyobo Securities (AA-)	641	_			_	641	_	_
Defense Acquisition Program								
Administration (A)		_			636	636	_	_
The Korea Securities Finance								
Corporation (AAA)		_	133	_	_	633	_	_
Kookmin Bank (AAA)	309	97		209	4	619	145	_
Korea Land & Housing								
Corporation (AAA)	328			283		611		
Total	₩10,666	₩2,263	₩138	₩41,942	W 641	₩55,650	W 556	₩—

⁽¹⁾ 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, 2020. If multiple ratings were available, the lowest one is indicated.

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

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

⁽⁴⁾ Credit rating is unavailable.

As of December 31, 2020, three of these top 20 borrowers or issuers were companies belonging to the 27 largest *chaebol* 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, 2020, 4.2% of our total exposure was to the 27 largest *chaebols* in Korea. The following table shows, as of December 31, 2020, our total exposures to the 10 *chaebols* to which we have the largest exposure:

Chaebol	Won currency	Foreign currency	Equity securities	Debt securities	Guarantees and acceptances	Total exposures	Collateral ⁽¹⁾	Amounts Classified as substandard or below ⁽²⁾
				(in bi	llions of Won)		
Samsung	₩ 686	₩2,627	₩25	₩130	₩ 826	₩ 4,294	₩ 41	₩—
Hyundai Motors	1,685	967	57	30	621	3,360	_	
LG	1,233	198	1	10	61	1,503	2	
Hanwha	965	179	_	108	33	1,285	503	
SK	738	78	2	34	266	1,118	126	
Hyundai Heavy Industries	244	111	_	2	590	947	_	
Doosan	402	124	_	_	395	921	8	
Lotte	495	337	_	_	54	886	_	
Kyobo Life Insurance	652	_	_	90	_	742	_	
Hyosung	213	271		33	211	728	319	
Total	₩7,313	₩4,892	₩85	₩437	₩3,057	₩15,784	₩999	₩—

⁽¹⁾ 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, 2020, 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	₩ 39,005	24.8%
Financial and insurance	22,497	14.3
Retail and wholesale	20,866	13.3
Hotel, leisure and transportation	9,150	5.8
Construction	4,720	3.0
Government and government agencies	276	0.2
Other	60,789	38.6
Total	₩157,303	100.0%

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

Maturity Analysis

The following table sets out, as of December 31, 2020, the scheduled maturities (time remaining until maturity) of our loan portfolio:

	1 year or less	Over 1 year but not more than 5 years (in billions	Over 5 years	Total
Domestic		(III billions	, or ***on)	
Corporate ⁽¹⁾				
Commercial and industrial	₩ 69,460	₩40,667	₩ 4,398	₩114,525
Lease financing	37	805	16	858
Trade financing	7,293	_	_	7,293
Other commercial	11,358	3,794	779_	15,931
Total corporate	88,148	45,266	5,193	138,607
Consumer				
General purpose household	23,831	9,537	6,842	40,210
Mortgage	12,407	18,501	31,366	62,274
Home equity	2,738	2,778	26,479	31,995
Total consumer	38,976	30,816	64,687	134,479
Credit cards	6,951	1,465	127	8,543
Total domestic	134,075	77,547	70,007	281,629
Foreign				
Corporate ⁽²⁾				
Commercial and industrial	9,676	5,016	1,692	16,384
Trade financing	1,481	1		1,482
Other commercial	318	359	152	829
Total corporate	11,475	5,376	1,844	18,695
Consumer				
Other consumer	517	1,195	1,929	3,641
Total foreign	11,992	6,571	3,773	22,336
Total loans	₩146,067	₩84,118	₩73,780	₩303,965

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

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).

⁽²⁾ Including loans made to banks.

Interest Rates

The following table shows, as of December 31, 2020, the total amount of our loans due after one year that have fixed interest rates and variable or adjustable interest rates:

	Domestic	_Foreign_	Total
	(in	billions of Wo	on)
Fixed rate ⁽¹⁾	₩ 65,840	₩ 3,589	₩ 69,429
Variable or adjustable rates ⁽²⁾	81,714	6,754	88,468
Total loans	₩147,554	₩10,343	₩157,897

⁽¹⁾ 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.

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:
	• 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
	• are in arrears for one month or more but less than three months.

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

Asset Classification	Characteristics
Substandard	Either:
	 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
	• the portion that we expect to collect of total loans (1) extended to customers that have been in arrears for three months or more, (2) 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 (3) 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:
	 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
	• have been in arrears for three months or more but less than 12 months.
Estimated Loss	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.

Loan Loss Provisioning Policy

Under IFRS 9 *Financial Instruments*, which replaced IAS 39, for annual periods commencing on or after January 1, 2018, we establish allowances for credit losses based on expected credit losses instead of incurred losses (as was the case under IAS 39) 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.

For financial reporting periods starting prior to January 1, 2018, under IAS 39 *Financial Instruments: Recognition and Measurement*, we established allowances for credit losses with respect to loans using either a case-by-case or collective approach. We assessed individually significant loans on a case-by-case basis and other loans on a collective basis. In addition, if we determined that no objective evidence of impairment exists for a loan, we included such loan in a group of loans with similar credit risk characteristics and assessed them collectively for impairment regardless of whether such loan is significant. If there was objective evidence that an impairment loss had been incurred for individually significant loans, the amount of the loss was measured as the difference between the financial asset's carrying amount and the present value of the estimated future cash flows discounted at such asset's original effective interest rate. Future cash flows were estimated through a case-by-case analysis of individually assessed assets, which took into account the benefit of any guarantee or other collateral held. The value and timing of future cash flow receipts were based on available estimates in conjunction with facts available at the time of review and reassessed on a periodic basis as new information became available.

Under IAS 39, for collectively assessed loans, we based the level of allowance for credit losses on a portfolio basis in light of the homogenous nature of the assets included in each portfolio. The allowances were determined based on a quantitative review of the relevant portfolio, taking into account such factors as the level of arrears, the value of any security, and historical and projected cash recovery trends over the recovery period. The methodologies we used to estimate collectively assessed allowances reflected the probability that the performing customer would default, our historical loss experience (as adjusted by current economic and credit conditions where appropriate) and the emergence period between an impairment event occurring and a loan being identified and reported as impaired.

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 banking institutions 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 ⁽¹⁾	Consumer	Credit card receivables ⁽²⁾	Credit card loans ⁽³⁾
Normal	0.85% or above	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%

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

- (2) Applicable for credit card receivables for general purchases of products or services.
- (3) Applicable for cash advances, card loans and revolving loan receivables.

The process to determine the allowances for off-balance sheet positions under IFRS 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.

Problem Loans and Past Due Accruing Loans

We monitor and manage our "problem loans" by generally placing loans on "problem loan" status when payments of interest and/or principal become past due by 90 days. In addition, the following types of loans are classified as problem loans by us even if such loans are not past due:

- Loans to creditors with dishonored notes or checks;
- Loans for which interest payments are reduced or postponed (e.g., through work-out procedures or debt restructurings); and
- Loans to creditors included in the "watch list" maintained by the Korea Federation of Banks.

We reclassify loans as non-problem loans when interest and principal payments are up-to-date and future payments of principal and interest are reasonably assured. In applying payments on problem loans, we first apply payments to the delinquent interest outstanding, then to non-delinquent interest, and then to the outstanding loan balance until the loan is paid in full.

Foregone interest is the portion of the contractual interest due on problem loans that we have not accrued in our books. If we had not foregone interest on our problem loans, we would have recorded gross interest income of \text{\text{\$\psi}}61 billion, \text{\$\psi}60 billion and \text{\$\psi}63 billion for 2018, 2019 and 2020 respectively, on loans accounted for as problem loans throughout the year, or since origination for loans held for part of the year. The actual amount of interest income on those loans included in our net income for 2018 and 2019 was \text{\$\psi}34\$ billion, \text{\$\psi}39\$ billion and \text{\$\psi}28\$ billion, respectively.

The category "accruing loans which are contractually past due 90 days or more as to principal or interest" includes loans that are still accruing interest based on the contractual rate of interest but on which principal or interest payments are contractually past due 90 days or more. We continue to accrue contractual interest on loans that are fully secured by deposits or on which there are financial guarantees from the Korean government, the KDIC or certain financial institutions.

The following table shows, as of the dates indicated, the amount of loans that were problem loans and accruing loans which were past due 90 days or more:

							As of	Decemb	er 31,						
		2016			2017			2018			2019			2020	
	Domestic	Foreign	Total												
Loans classified as problem															
loans(1)															
Corporate ⁽²⁾	₩1,200	₩67	₩1,267	₩ 924	₩145	₩1,069	₩ 627	₩35	₩ 662	₩ 688	₩42	₩ 730	₩ 510	₩181	₩ 691
Consumer ⁽³⁾	442	20	462	460	23	483	537	24	561	559	20	579	452	21	473
Sub-total	1,642	87	1,729	1,384	168	1,551	1,164	59	1,223	1,247	62	1,309	962	202	1,164
Accruing loans which are contractually past due 90 days or more as to principal or interest ⁽¹⁾															
Corporate ⁽²⁾	3	_	3	2	_	2	1	_	1	11	_	11	38	_	38
Consumer ⁽³⁾	_	_	_	_	_	_	_	_	_	_	_	_	83	_	83
Sub-total	3		3	2		2	1		1	11		11	121		121
Total	₩1,645	₩87	₩1,732	₩1,386	₩168	₩1,553	₩1,165	₩59	₩1,224	₩1,258	₩62	₩1,320	₩1,083	₩202	₩1,285

⁽¹⁾ 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.

The following table shows, as of the dates indicated, the amount of problem loans, potential problem loans and non-performing loans:

	As	of December	31,
	2018	2019	2020
	(in	billions of W	on)
Problem loans	₩1,223	₩1,309	₩1,164
Potential problem loans ⁽¹⁾	1,513	1,345	1,265
Non-performing loans	1,329	1,157	1,236

⁽¹⁾ Potential problem loans are those classified as precautionary that we determine, through our internal loan review process, as requiring close management due to the borrower's financial condition, our forecast for the industry in which it operates or as a result of other developments relating to its business.

⁽²⁾ Including loans made to banks and the Korean government and government-owned agencies.

⁽³⁾ Includes credit card balances of \(\mathbf{W}\)142 billion, \(\mathbf{W}\)163 billion, \(\mathbf{W}\)188 billion, \(\mathbf{W}\)208 billion and \(\mathbf{W}\)94 billion as of December 31, 2016, 2017, 2018, 2019 and 2020, respectively.

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, 2020										
	Norma	1	Past due 1 month or					Past due by 3-6 months		e by nan ths	Total	
	Amount	_%_	Amount past due	(in bi	llions of V Amount past due	Won, ex	cept perc Amount past due		Amount past due	<u>%</u>	Amount	_%
Domestic												
Corporate ⁽¹⁾												
Commercial and industrial	₩113,988	37.6%	₩219	0.1%	₩ 90	0.0%	₩106	0.0%	₩122	0.0%	₩114,525	37.7%
Lease financing	849	0.3	4	0.0	1	0.0	1	0.0	3	0.0	858	0.3
Trade financing	7,276	2.4	1	0.0	8	0.0	6	0.0	2	0.0	7,293	2.4
Other commercial	15,887	5.2	7	0.0	3	0.0	5	0.0	29	0.0	15,931	5.2
Total corporate Consumer	138,000	45.5	231	0.1	102	0.0	118	0.0	156	0.0	138,607	45.6
General purpose household	39,852	13.1	158	0.1	64	0.0	51	0.0	85	0.0	40,210	13.2
Mortgages	61,938	20.4	206	0.1	42	0.0	30	0.0	58	0.0	62,274	20.5
Home equity	31,845	10.5	90	0.0	23	0.0	17	0.0	20	0.0	31,995	10.5
Total consumer	133,635	44 0	454	0.2	129	0.0	98	0.0	163	0.0	134,479	44.2
Credit cards	8,382	2.8	73	0.0	44	0.0	44	0.0		0.0	8,543	2.8
Total domestic	280,017	92.3	758	0.3	275	0.0	260	0.0	319	0.0	281,629	92.6
Foreign Corporate ⁽²⁾												
Commercial and industrial	16,265	5.4	6	0.0	_	0.0	15	0.0	98	0.0	16,384	5.4
Trade financing	1,482	0.5	_	0.0	_	0.0	_	0.0	_	0.0	1,482	0.5
Other commercial	829	0.3	_	0.0	_	0.0	_	0.0	_	0.0	829	0.3
Total corporate	18,576	6.2	6	0.0		0.0	15	0.0	98	0.0	18,695	6.2
Consumer	3,530	1.2	17	0.0	11	0.0	10	0.0	73	0.0	3,641	1.2
Total foreign	22,106	7.4	23	0.0	11	0.0	25	0.0	171	0.0	22,336	7.4
Total loans ⁽³⁾	₩302,123	99.7% ===	W 781	0.3%	₩286	0.0%	₩285 ====	0.0%	₩490	0.0%	₩303,965	100.0%

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

²⁾ Including loans made to banks.

⁽³⁾ 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 D	ecembe	er 31, 2019	•				
	Norma	Normal		by less	Past due		Past due by 3-6 months		Past due by more than 6 months		Total	
				(in billions of Won, except percentages)								
	Amount	%	Amount past due	%	Amount past due	%	Amount past due	%	Amount past due	%	Amount	_%
Domestic												
Corporate ⁽¹⁾												
Commercial and industrial	₩100,415	37.1%	₩117	0.0%	₩111	0.0%	₩ 93	0.0%	₩ 93	0.0%	₩100,829	37.1%
Lease financing	77	0.0	_	0.0	_	0.0	_	0.0	_	0.0	77	0.0
Trade financing	6,758	2.5	1	0.0	2	0.0	3	0.0	2	0.0	6,766	2.5
Other commercial	13,705	5.1	6	0.0	3	0.0	5	0.0	29	0.0	13,748	5.1
Total corporate Consumer	120,955	44.7	124	0.0	116	0.0	101	0.0	124	0.0	121,420	44.7
General purpose household	37,368	13.8	120	0.0	45	0.0	33	0.0	39	0.0	37,605	13.8
Mortgages	54,145		202	0.1	67	0.0	41	0.0	56	0.0	54,511	20.1
Home equity	28,450		87	0.0	32	0.0	23	0.0	30	0.0	28,622	10.5
Total consumer	119,963		409	0.1	144	0.0	97	0.0	125	0.0	120,738	44.3
Credit cards	8,189	3.1	100	0.0	55	0.0	55	0.0		0.0	8,399	3.1
Total domestic	249,107	92.0	633	0.1	315	0.0	253	0.0	249	0.0	250,557	92.1
Foreign Corporate ⁽²⁾												
Commercial and industrial	15,474	5.7	19	0.0	7	0.0	15	0.0	29	0.0	15,544	5.7
Trade financing	1,781	0.7		0.0	_	0.0	_	0.0	1	0.0	1,782	0.7
Other commercial	828	0.3	_	0.0	17	0.0	_	0.0	_	0.0	845	0.3
Total corporate	18,083	6.7	19	0.0	24	0.0	15	0.0	30	0.0	18,171	6.7
Consumer	3,217	1.2	14	0.0	8	0.0	7	0.0	19	0.0	3,265	1.2
Total foreign	21,300	7.9	33	0.0	32	0.0	22	0.0	49	0.0	21,436	7.9
Total loans ⁽³⁾	₩270,407	99.9%	₩666	0.1%	₩347	0.0%	₩275	0.0%	₩298	0.0%	₩271,993	100.0%

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

⁽²⁾ Including loans made to banks.

⁽³⁾ 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, 2018											
	Norma	1	Past due 1 month or		Past due		Past due by 3-6 months		6 months		Total	
	Amount	%	Amount past due	(in b	illions of V Amount past due	,	cept perc Amount past due	entages %	Amount past due	%	Amount	%
Domestic												
Corporate ⁽¹⁾												
Commercial and industrial	₩ 95,811	36.6%	₩169	0.1%	₩117	0.0%	₩ 84	0.0%	₩102	0.0%	₩ 96,283	36.7%
Lease financing	55	0.0	_	0.0	_	0.0	_	0.0	_	0.0	55	0.0
Trade financing	9,633	3.7	3	0.0	3	0.0	6	0.0	4	0.0	9,649	3.7
Other commercial	16,133	6.2	6	0.0	3	0.0	3	0.0	32	0.0	16,177	6.2
Total corporate Consumer	121,632	46.5	178	0.1	123	0.0	93	0.0	138	0.0	122,164	46.6
General purpose household	36,652	14.0	170	0.1	55	0.0	37	0.0	48	0.0	36,962	14.1
Mortgages		19.5	281	0.1	59	0.0	39	0.0	39	0.0	51,280	19.6
Home equity	26,112	10.0	117	0.0	36	0.0	24	0.0	35	0.0	26,324	10.0
Total consumer	113,626	43.5	568	0.2	150	0.0	100	0.0	122	0.0	114,566	43.7
Credit cards	7,818	3.1	123	0.0	58	0.0	52	0.0	_	0.0	8,051	3.1
Total domestic	243,076	93.1	869	0.3	331	0.0	245	0.0	260	0.0	244,781	93.4
Foreign Corporate ⁽²⁾												
Commercial and industrial	11,778	4.5	8	0.0	13	0.0	3	0.0	35	0.0	11,837	4.5
Trade financing	2,185	0.8	_	0.0	_	0.0	_	0.0	1	0.0	2,186	0.8
Other commercial	700	0.3		0.0		0.0		0.0		0.0	700	0.3
Total corporate	14,663	5.6	8	0.0	13	0.0	3	0.0	36	0.0	14,723	5.6
Consumer	2,502	1.0	3	0.0	4	0.0	4	0.0	17	0.0	2,530	1.0
Total foreign	17,165	6.6	11	0.0	17	0.0	7	0.0	53	0.0	17,253	6.6
Total loans ⁽³⁾	₩260,241	99.7%	₩880	0.3%	₩348	0.0%	₩252	0.0%	₩313	0.0%	₩262,034	100.0%

As of Docombon 21 2019

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. 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 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

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

⁽²⁾ Including loans made to banks.

⁽³⁾ 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.

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. 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, 2020, \(\foathbf{W}\)125 billion, or 0.03%, of our total loans and debt securities were in workout, restructuring or rehabilitation. This included \(\foatbf{W}\)17 billion of loans to and debt securities of large corporate borrowers in workout, restructuring or rehabilitation and \(\foatbf{W}\)98 billion of loans to and debt securities of small- and medium-sized enterprises in workout, restructuring or rehabilitation, which represented 0.00% and 0.03% 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, 2020, our 10 largest exposures that were in workout, restructuring or rehabilitation:

	Lo	ans				Amounts Classified as Allowance			
Company	Won Currency	Foreign Currency	Equity Securities	Debt Securities	Securities Acceptances Exposu		Collateral ⁽¹⁾	Substandard	
					(in billions of	Won)			
Orient Shipyard	₩ 5	₩—	₩—	₩—	₩48	₩ 53	₩—	₩ 54	₩ 3
Crea	16	_	_	_	_	16	8	16	7
J.Y Heavy Industries	12	_	_	_	_	12	10	12	5
Kodaco	10	_	_	_	_	10	_	10	10
PT Delta Dunia Tekstil	_	9	_	_	_	9	_	9	3
Skono Korea	6	_	_	_	_	6	3	6	2
Crea Gunsan	6	_	_	_	_	6	4	4	2
Won Bang Cast Iron	5	_	_	_	_	5	5	5	_
Trans-Pacific Resources	1	2	_	_	2	5	2	3	2
Rio Logistics	4					4	3	4	1
Total	₩ 65	₩11	₩—	₩—	₩50	₩126	₩35	₩123	₩35

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

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

Potential Problem Loans

As of December 31, 2020, we had $\mathbb{W}1,265$ billion of corporate loans in respect of which we had serious doubt as to the borrower's ability to comply with repayment terms in the near future. Potential problem loans are those classified as precautionary that we determine, through our internal loan review process, as requiring close management due to the borrower's financial condition, our forecast for the industry in which it operates or as a result of other developments relating to its business. The following table shows changes in our potential problem loans for each of the years indicated:

	Year ended D	ecember 31,
	2019	2020
	(in billions	of Won)
Balance at the beginning of the year	₩1,513	₩1,345
Increase in the balance of potential problem loans to borrowers who became newly		
classified as borrowers with potential problem loans during the year	398	440
Decrease in the balance of potential problem loans to borrowers to whom we had		
potential problem loans outstanding at the end of the preceding year and have		
potential problem loans outstanding at the end of the year	(109)	(55)
Decrease in the balance of potential problem loans to borrowers to whom we had		. ,
potential problem loans outstanding at the end of the preceding year but no longer		
have any loans outstanding at the end of the year	(294)	(468)
Decrease in the balance of potential problem loans to borrowers to whom we had		
potential problem loans outstanding at the end of the preceding year but have		
loans outstanding classified as normal at the end of the year	(207)	(80)
Net other increase in the balance of potential problem loans to existing borrowers to	. ,	` '
whom we had potential problems loans outstanding at the end of the year	44	83
Balance at the end of the year	₩1,345	₩1,265

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 December 31,									
	2016	2017	2018	2019	2020					
		(in billions of Won, except percentages)								
Total non-performing loans	$\$2,080^{(1)}$	₩1,853 ⁽²⁾	₩1,329 ⁽³⁾	$\$1,157^{(4)}$	₩1,236 ⁽⁵⁾					
As a percentage of total loans	0.88%	0.73%	0.51%	0.43%	0.41%					

⁽¹⁾ Excludes \(\foathbf{W}\)102 billion of previously delinquent credit card balances restructured into loans that were classified as normal or precautionary.

Excludes ¥122 billion of previously delinquent credit card balances restructured into loans that were classified as normal or precautionary.

⁽³⁾ Excludes ₩137 billion of previously delinquent credit card balances restructured into loans that were classified as normal or precautionary.

⁽⁴⁾ Excludes \(\foatharrow\)154 billion of previously delinquent credit card balances restructured into loans that were classified as normal or precautionary.

⁽⁵⁾ Excludes \(\foat{\pmathbf{W}}\)123 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 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.

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

				As of December 31,										
	201	6	201	7	2018	8	201	9	202	0				
	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%				
			(ir	billions	of Won, ex	xcept per	centages)							
Domestic														
Corporate														
Commercial and industrial	₩1,222	58.8%	₩1,051	56.6%	5 ₩ 741	55.8%	₩ 528	45.6%		43.20%				
Lease financing	_			0.0	_	0.0	_	0.0	10	0.80				
Trade financing	259	12.4	288	15.6	65	4.9	63	5.4	38	3.10				
Other commercial	151	7.3	98	5.3	99	7.4	103	8.9	81	6.60				
Total corporate	1,632	78.5	1,437	77.5	905	68.1	694	59.9	663	53.70				
Consumer	-,		-,											
General purpose household ⁽¹⁾	227	10.9	187	10.1	190	14.3	166	14.4	202	16.30				
Mortgage	60	2.9	73	3.9	94	7.1	117	10.1	113	9.10				
Total consumer	287	13.8	260	14.0	284	21.4	283	24.5	315	25.40				
Credit cards	51	2.4	57	3.1	70	5.3	74	6.4	61	4.90				
Total domestic	1,970	94.7	1,754	94.6	1,259	94.8	1,051	90.8	1,039	84.00				
Foreign														
Corporate	0.1	4.4	7.4	4.0	12	2.0	50	<i>5</i> 1	117	0.50				
Commercial and industrial	91	4.4	74	4.0	43	3.2	59	5.1	117	9.50				
Lease financing		0.0	_	0.0		0.0		0.0	_	0.00				
Trade financing	1	0.0	2	0.1	1	0.1	17	0.0		0.00				
Other commercial		0.0	/	0.4		0.0	17	1.5		0.00				
Total corporate	92	4.4	83	4.5	45	3.3	76	6.6	117	9.50				
Consumer	18	0.9	16	0.9	25	1.9	30	2.6	80	6.50				
Total foreign	110	5.3	99	5.4	70	5.2	106	9.2	197	16.00				
Total non- performing														
loans	₩2,080	100.0%	₩1,853	100.0%	₩1,329	100.0%	₩1,157	100.0%	₩1,236	100.0%				

⁽¹⁾ 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 D	ecember 31,
	2019	2020
	(in billions	of Won)
Balance at the beginning of the year	₩1,329	₩1,157
Additions to non-performing loans		
Loans transferred into non-performing loans	1,393	1,522
Reductions in non-performing loans		
Loans sold	(289)	(271)
Loans modified and returned to performing loans	(299)	(254)
Loans paid down or paid off	(296)	(256)
Loans charged-off	(681)	(662)
Other		
Total net reductions to non-performing loans	(172)	79
Balance at the end of the year	₩1,157	₩1,236

Top 20 Non-Performing Loans. As of December 31, 2020, our 20 largest non-performing loans accounted for 29.9% 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 ⁽¹⁾	Industry
	(in	billions of W	on)	
Borrower A	₩ 56	₩ 56	₩ —	Other
Borrower B	34	11	20	Manufacturing
Borrower C	32	29	_	Shipping
Borrower D	29	15	_	Manufacturing
Borrower E	25	25	_	Other
Borrower F	25	1	25	Manufacturing
Borrower G	19	6	13	Real estate
Borrower H	18	7	_	Construction
Borrower I	18	4	14	Manufacturing
Borrower J	16	7	8	Manufacturing
Borrower K	16	5	15	Manufacturing
Borrower L	13	6	_	Manufacturing
Borrower M	12	5	10	Manufacturing
Borrower N	11		11	Real estate
Borrower O	10	10	_	Manufacturing
Borrower P	10	10	_	Construction
Borrower Q	6	2	_	Financial and insurance
Borrower R	6	2	_	Financial and insurance
Borrower S	6	3	3	Real estate
Borrower T	6	6	1	Manufacturing
Total	₩368	₩210	W 120	

⁽¹⁾ 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 (or IAS 39 for periods prior to 2018).

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 (or IAS 39)
Scope	Loans	Loans (not including due from banks and other financial assets) under IFRS 9 (or loans and receivables (including due from banks and other receivables) under IAS 39)
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	31,
	2018	2019	2020
	(in	billions of W	on)
Impaired loans	₩1,621	₩ 1,386	₩ 1,435
Precautionary loans meeting the definition of impaired loans ⁽¹⁾	_	_	_
Others	1,621	1,386	1,435
Non-performing loans	1,329	1,157	1,236

⁽¹⁾ Includes loans that are individually significant where the borrower has a capital deficit or its external auditor has expressed a qualified opinion or disclaimed its opinion on the borrower's financial statements.

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. Our credit monitoring systems are designed to bring any sudden increase in a borrower's credit risk to the attention of our subsidiaries, which then closely monitor 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.

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%. Unlike laws relating to foreclosure in the United States, Korean law does not provide for non-judicial foreclosure. During 2018, 2019 and 2020, we held collateral with respect to loan balances overdue for more than three months representing approximately 0.1%, 0.1% and 0.1%, 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,												
		2018			2019		2020						
Purchaser	Net Carrying Sale Amount(1) Price		Gain (Loss)	Net Carrying Amount ⁽¹⁾	Sale Price	Gain (Loss)	Net Carrying Amount ⁽¹⁾	Sale Price	Gain (Loss)				
		(in billions of Won)											
KAMCO	₩ —	₩ —	₩—	₩ 95	₩ 101	₩ 6	₩ 14	₩ 14	₩—				
Structured companies	₩ 155	₩197	₩42	₩ 55	₩ 60	₩ 4	₩ 60	₩ 67	₩ 7				
UAMCO ⁽²⁾	_	_	_	40	47	7	87	98	11				
Others ⁽³⁾		19	19		15	15	29	54	25				
Total	₩155	₩216	₩61	W 190	₩223	₩32	₩190	₩233	₩43				

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

⁽²⁾ Woori Bank holds a 14% equity interest in UAMCO.

⁽³⁾ Includes \(\foatsigma 5\) million of sales to Korea Asset Management Corporation in 2018, 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,									
	201	6	201	7	2018	8	201	9	202	0
			(iı	n billions	of Won, ex	xcept per	centages)			
Domestic										
Corporate										
Commercial and industrial	₩ 975	52.7%	₩ 893	50.4%	₩ 863			43.4%	, . ,	48.0%
Lease financing	_		1	0.1	1	0.1	2	0.1	10	0.5
Trade financing		14.9	297	16.8	171	9.6	135	8.6	95	5.0
Other commercial	183	9.8	143	8.0	130	7.3	107	6.8	89	4.7
Total corporate	1,435	77.4	1,334	75.3	1,165	65.5	928	58.9	1,111	58.2
Consumer	1.40	0.0	107	10.6	250	145	256	16.2	260	10.2
General purpose household	149	8.0	187	10.6	258	14.5	256	16.3	368	19.3
Mortgage	9	0.5	11	0.6	19	1.1	16	1.0	14	0.7
Total consumer	158	8.5	198	11.2	277	15.6	272	17.3	382	20.0
Credit cards	155	8.4	182	10.3	260	14.6	274	17.4	259	13.6
Total domestic	1,748	94.3	1,714	96.8	1,702	95.7	1,474	93.6	1,752	91.8
Foreign										
Corporate										
Commercial and industrial	92	5.0	39	2.2	53	3.0	58	3.7	122	6.4
Trade financing	1	0.1	3	0.2	3	0.2	2	0.1	1	0.1
Other commercial	1	0.1	7	0.4	5	0.3	22	1.4	4	0.2
Total corporate	94	5.2	49	2.8	61	3.5	82	5.2	127	6.7
Consumer	9	0.5	7	0.4	15	0.8	19	1.2	30	1.6
Total foreign	103	5.7	56	3.2	76	4.3	101	6.4	157	8.3
Total allowance for										
credit losses ⁽²⁾	₩1,851	100.0%	₩1,770	100.0%	₩1,778	100.0%	₩1,575	100.0%	₩1,909	100.0%

⁽¹⁾ Includes home equity loans.

⁽²⁾ Not including due from banks and other financial assets (or other receivables).

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

		Year ended December 31,						
	2016	2017	2018(4)	2019(4)	2020(4)			
		(in	n)					
Balance at the beginning of the year ⁽¹⁾	₩ 2,051	₩ 1,851	₩ 2,018	₩ 1,778	₩ 1,575			
Bad debt expenses for the period	822	896	375	380	787			
Increase on repurchases of non-performing loans	_	_	_	_	175			
Changes due to business combination Gross charge-offs	_	_	_		_			
Domestic Domestic								
Corporate								
Commercial and industrial	(613)	(352)	(239)	(179)	(171)			
Lease financing	` <u>—</u> ´	` <u>—</u>		`—	` <u>—</u>			
Trade financing	(67)	(29)	(26)	(14)	(23)			
Other commercial	(19)	(39)	(6)	(5)	(6)			
Total corporate	(699)	(420)	(271)	(198)	(200)			
Consumer	(1.50)	(1.42)	(201)	(01.4)	(170)			
General purpose household ⁽²⁾	(152)	(143)	(201)	(214)	(178)			
Mortgage	(3)	(4)	(3)	(3)	(4)			
Total consumer	(155)	(147)	(204)	(217)	(182)			
Credit cards	(242) (1,096)	(228)	(243)	(281)	(246)			
Foreign	(23)	(795) (37)	(718) (18)	(696) (24)	(628) (43)			
Allowances relating to loans sold	(115)	(66)	(52)	(45)	(76)			
Total gross charge-offs	(1,234)	(898)	(788)	(765)	$\frac{(747)}{}$			
Recoveries:	(1,234)	(696)	(766)	(703)	(747)			
Domestic								
Corporate								
Commercial and industrial	153	65	98	54	54			
Lease financing	_	_		_				
Trade financing	18	6	11	3	4			
Other commercial	21	14	17	6	8			
Total corporate	192	85	126	63	66			
Consumer General purpose household ⁽²⁾	29	25	29	35	39			
Mortgage	25	20	23	27	39			
	54	45	52		71			
Total consumer	34 44	43 51	52 57	62 60	66			
Total domestic Foreign	290	181 1	235 2	185 3	203			
Total recoveries	290	182	237	188	203			
Net charge-offs	(944)	(716)	(551)	(577)	(544)			
Foreign exchange translation effects Others ⁽³⁾	1 (79)	(3) (258)	(64)	2 (13)	(3) (81)			
Business combination	— (17)	(230)	(0 1)	5	(61)			
Balance at the end of the year	₩1,851	₩ 1,770	₩ 1,778	₩ 1,575	₩1,909			
·								
Ratio of net charge-offs during the period to average loans outstanding during the period	0.4%	0.3%	0.2%	0.2%	0.2%			
Tours outstanding during the period	0.17	0.570	0.270	0.27	. 0.270			

The application of IFRS 9 resulted in a one-off increase of \$248 billion in the opening balance of allowances for loan losses as of January 1, 2018.

⁽²⁾ Includes home equity loans.

⁽³⁾ Includes unwinding of discount.

⁽⁴⁾ See Note 10-(6) of the notes to our consolidated financial statements for changes in allowance for loan losses according to stages of credit risk deterioration of financial assets.

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 2020 was \(\formalfont{W}10\) billion. In 2020, Woori Bank recovered approximately \(\formalfont{W}10\) 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 \(\formsigms 500\) million of unsecured debt and/or \(\formsigms 1\) 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 2020 was \(\formsigms 355\) billion. In 2020, Woori Bank recovered \(\formsigms 54\) 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 \(\mathbf{W}50\) 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 \(\mathbf{W}30\) 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, maturity extensions and/or interest rate adjustments are provided to retail borrowers with total loans of less than \text{\$\psi}\$1.5 billion (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. The aggregate amount of consumer credit Woori Bank provided which became subject to the pre-workout program in 2020 was \text{\$\psi}\$49 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."

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.

Book Value and Fair Value

The following table sets out the book value and fair value of securities in our portfolio as of the dates indicated:

	As of December 31,											
	2018			2019				2020				
	Bool	k Value	Fai	r Value	Boo	k Value	Fai	r Value	Boo	k Value	Fai	r Value
					(i	n billion	s of	Won)				
Financial assets at fair value through profit or loss Financial assets at fair value through profit or loss mandatorily measured at fair value	***	070	•••	070	•••	600	•••	600	***	571	•••	551
Equity securities Debt securities	₩	878	₩	878	₩	688	₩	688	₩	571	₩	571
Korean treasury and government agencies Financial institutions		516 534		516 534		873 600		873 600		1,020 873		1,020 873
Corporate		775 423		775 423		762 515		762 515		762 866		762 866
Beneficiary certificates Others		985		985		1,366 102		1,366 102		2,812 232		2,812 232
Total	₩	4,111	₩	4,111	₩	4,906	₩	4,906	₩	7,136	₩	7,136
Financial assets at fair value through other comprehensive income Equity securities	₩	951	₩	951	₩	935	₩	935	₩	1,081	₩	1,081
Debt securities												
Korean treasury and government agencies Financial institutions Corporate Foreign currency bonds Securities loaned		1,358 11,253 1,825 2,636 40		1,358 11,253 1,825 2,636 40		1,153 17,770 3,917 3,875 81		1,153 17,770 3,917 3,875 81		2,923 17,997 3,897 4,032 100		2,923 17,997 3,897 4,032 100
Total	₩1	8,063	₩	18,063	₩2	27,731	₩	27,731	₩3	30,029	₩3	30,029
Securities at amortized cost Debt securities												
Korean treasury and government agencies Financial institutions Corporate Foreign currency bonds		7,523 9,475 5,707 234	₩	7,575 9,494 5,732 233	₩	8,044 6,695 5,068 519	₩	8,144 6,737 5,108 524	₩	6,947 4,845 4,726 508	₩	7,250 4,895 4,810 525
Allowance for credit losses		(7)				(6)				(5)		
Total	₩	22,932	₩	23,034	₩	20,320	₩	20,513	₩	17,021	₩	17,480
Total securities	₩4	15,106	₩	15,208	₩3	52,957	₩	53,150	₩5	54,186	₩5	54,645

Maturity Analysis

The following table categorizes our debt securities by maturity and weighted average yield as of December 31, 2020:

				A	s of Decen	iber 31, 20	20			
	Withi	n 1 year		Over 1 but Over 5 but Within 5 years Within 10 years			Over	10 years	Total	
	Amount	Weighted Average Yield ⁽¹⁾	Amount	(in billion Weighted Average Yield ⁽¹⁾		except per Weighted Average Yield ⁽¹⁾	Amount	Weighted Average Yield ⁽¹⁾	Amount	Weighted Average Yield(1)
Financial assets at fair value through profit or loss ⁽²⁾										
Korean treasury and government										
agencies		1.70%	₩ 505	1.42%	₩149	1.43%	₩ —	—%	₩ 1,020	1.52%
Financial institutions	392	1.05	481	1.04	_	_	_	_	873	1.04
Corporate	578	1.98	184		_	_	_	_	762	1.90
Others	10	1.90	6	0.76	6	0.37	210	_	232	0.11
Total	₩ 1,346	1.63%	₩ 1,176	1.30%	₩155	1.39%	₩210	—%	₩ 2,887	1.36%
Financial assets at fair value through other comprehensive income										
Korean treasury and										
government agencies	₩ 242	2.10%	₩ 2,423	1.45%	₩258	1.58%	₩ —	—%	₩ 2,923	1.52%
Financial institutions	9,744	1.48	8,253	1.13	_	_	_	_	17,997	1.32
Corporate	1,524	1.72	2,322	1.42	51	1.83	_	_	3,897	1.55
Foreign currency bonds	1,192	1.24	2,573	1.62	221	3.50	46	1.38	4,032	1.61
Securities loaned		_	100	1.08		_		_	100	1.08
Total	₩12,702	1.50%	₩15,671	1.31%	₩530	2.41%	₩ 46	1.38%	₩28,949	1.41%
Financial assets at amortized cost										
Korean treasury and										
government agencies		2.49%	₩ 5,680		₩ 77	1.67%	₩ —	—%	₩ 6,945	1.95%
Financial institutions	3,289	1.96	1,553	1.85		_			4,842	1.93
Corporate	691	2.45	3,142	2.09	718	1.89	174	1.95	4,725	2.11
Foreign currency bonds	129	1.08	319	3.36	49	3.50	12	3.02	509	2.79
Total	₩ 5,297	2.12%	₩10,694	1.96%	₩844	1.97%	₩186	2.02%	₩17,021	2.01%

⁽¹⁾ 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 and financial assets at fair value through profit or loss).

⁽²⁾ Excludes securities such as puttable instruments.

Risk Concentrations

As of December 31, 2020, we held the following debt securities of individual issuers where the aggregate book value of those securities exceeded 10% of our owners' equity at such date. As of December 31, 2020, our owners' equity was \$23,054 billion.

As of December 31, 2020		
Book Value	Market Value	
(in billio	ons of Won)	
₩10,559	₩10,598	
10,475	10,779	
6,237	6,242	
5,717	5,729	
5,736	5,774	
₩38,724	₩39,122	
	Book Value (in billio ₩10,559 10,475 6,237 5,717 5,736	

The Korea Development Bank, The Bank of Korea, Industrial Bank of Korea and Korea Housing Finance Corporation are Korean government entities.

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 82.7% of our total funding as of December 31, 2018, 83.0% of our total funding as of December 31, 2019 and 82.2% of our total funding as of December 31, 2020.

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, 2020, approximately 87.8% 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,									
	2018	3	2019)	2020)				
	$ \begin{array}{ccccccc} Average & Average & Average \\ Balance^{(1)} & Cost & Balance^{(1)} & Cost \end{array} $							Average Balance ⁽¹⁾	Average Cost	
		(in billions of Won, except percentages)								
Demand deposits	₩ 8,512	0.60%	₩ 8,213	0.43%	₩ 10,110	0.48%				
Time deposits and savings deposits	196,806	1.23	211,732	1.33	225,563	0.91				
Certificates of deposit	5,091	2.04	4,760	2.21	1,677	1.31				
Other deposits ⁽²⁾	26,254	1.31	28,930	1.63	34,861	1.03				
Average total deposits	₩236,663	1.23%	₩253,635	1.35%	₩272,211	0.91%				

⁽¹⁾ 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."

Maturities of Certificates of Deposit and Other Time Deposits

The following table presents, as of December 31, 2020, the remaining maturities of our certificates of deposit and other time deposits which had fixed maturities in excess of \$100 million:

	As of December 31, 2020					
	Certificates of Deposit	Other Time Deposits	Total			
	(iı	n)				
Maturing within three months	₩ 637	₩ 33,608	₩ 34,245			
After three but within six months	526	25,940	26,466			
After six but within 12 months	768	43,568	44,336			
After 12 months	93	4,894	4,987			
Total	₩2,024	₩108,010	₩110,034			

⁽²⁾ 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.

Long-Term Debt

The aggregate amount of contractual maturities of all long-term debt, which consists of debentures and borrowings with original maturities exceeding one year, as of December 31, 2020 was as follows:

	Amount
	(in billions of Won)
Due in 2021	₩16,527
Due in 2022	
Due in 2023	8,881
Due in 2024	4,177
Due in 2025	1,643
Thereafter	3,467
Gross long-term debt	45,164
Less: discount	(26)
Total long-term debt, net	₩45,138

Short-Term Borrowings

The following table presents, for the periods indicated, information regarding our short-term borrowings, with an original maturity of one year or less:

	As of and for the year ended December 31,					
	2018		2019			2020
		(in billions	of W	on, except pe	rcen	itages)
Call money						
Year-end balance	₩	975	₩	134	₩	416
Average balance(1)		1,047		1,197		1,073
Maximum balance		1,540		1,782		2,574
Average interest rate ⁽²⁾		2.0%		2.9%)	0.7%
Year-end interest rate	0.0~7.3%			$(0.3) \sim 3.5\%$)	(0.3)~3.8%
Borrowings from the Bank of Korea ⁽³⁾						
Year-end balance	₩	1,335	₩	1,771	₩	2,678
Average balance(1)		1,421		1,444		2,363
Maximum balance		1,468		1,771		2,727
Average interest rate ⁽²⁾		0.7%		0.6%)	0.3%
Year-end interest rate		$0.5 \sim 0.8\%$		0.5~0.8%)	0.3%
Other short-term borrowings (4)						
Year-end balance	₩	8,087	₩	9,931	₩	12,974
Average balance ⁽¹⁾		8,006		10,743		13,194
Maximum balance		8,859		11,913		14,035
Average interest rate ⁽²⁾		1.8%		1.8%)	1.3%
Year-end interest rate	(0.05~6.4%	($(0.3) \sim 8.7\%$) ((0.5)~10.6%

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

⁽²⁾ Average interest rates for the year are calculated by dividing the total interest expense by the average amount borrowed.

⁽³⁾ Borrowings from the Bank of Korea generally mature within one month for borrowings in Won and six months for borrowings in foreign currencies.

⁽⁴⁾ Other short-term borrowings include borrowings from trust accounts, bills sold, bonds sold under repurchase agreements, borrowings in domestic and foreign currency, short-term secured borrowings and foreign currency debentures. Other short-term borrowings have maturities of 30 days to one year and are unsecured.

Supervision and Regulation

Principal Regulations Applicable to Financial Holding Companies

General

The Financial Holding Company Act, last amended on December 31, 2018, 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; and
- 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.

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 and market 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 2021 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), Item 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), Item 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, Item 15 of the Insurance Business Act;
- (6) in case of a savings bank, the capital amount as defined in Article 2, Item 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, Item 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) \text{\$\frac{1}{2}\$} 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, 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) \text{W5} 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 ₩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 in November 29, 2014, 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 Committee 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 Committee, the supreme policy-making body of the Bank of Korea.

Under the Bank of Korea Act, the Monetary Policy Committee'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, 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 commercial banking business or a long-term financing 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 commercial banking and long-term financing businesses, such as a trust business, must file a report to the Financial Services Commission. 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 also 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 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;
- · 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 for not more than six months.

Capital Adequacy

The Bank Act requires nationwide banks, such as us, to maintain a minimum paid-in capital of \(\foat\)100 billion and regional banks to maintain a minimum paid-in capital of \(\foat\)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 2020 and 2021, 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 for 2020 by the Financial Services Commission and was subject to an additional capital requirement of 1.0% in 2020. In June 2020, we and Woori Bank were again each designated as a domestic systemically important bank holding company and a domestic systemically important bank, respectively, for 2021, which subjects us and Woori Bank to the additional capital requirement of 1.0% in 2021.

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 of 35% (only in the case where the loan is fully secured by a first ranking mortgage) and, with respect to high-risk home mortgage loans, 50% or 70%; 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 (defined as the ratio of highly liquid assets to total net cash outflows over a 30-day period) of not less than 100%;
- maintain a foreign currency liquidity coverage ratio of not less than 80%; 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, these temporary deregulation measures are currently scheduled to expire at the end of September 2021, which may be subject to change.

The Monetary Policy Committee 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 long-term household 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 financial institutions (excluding bank holding companies) and the Export-Import Bank of Korea as well as foreign currency certificates of deposit held by account holders of such offshore accounts, immigrant accounts and resident accounts opened by financial institutions (excluding bank holding companies) and the Export-Import Bank of Korea.

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 \(\frac{\text{\$\text{\$\text{\$\text{\$\text{\$a}\$}}}}{2}\) 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, Etc. 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 24% per annum. An amendment to regulations on loans that reduces the maximum interest rate that may be charged from 24% to 20% is expected to become effective in July 2021. Historically, interest rates on deposits and lending were regulated by the Monetary Policy Committee. 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 \(\frac{\text{W}}{4}\) 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{\$\frac{1}{3}}} 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) \display20 million in the case of a general loan, (ii) \display50 million in the case of a general loan plus a housing loan or (iii) \display60 million in the aggregate for general loans, housing loans and loans to pay damages arising from wrongful acts of employees in financial transactions;
- 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 \times 20 million or general and housing loans of up to \times 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 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 loans secured by housing (including apartments) located in areas of excessive investment or housing (including apartments) located in areas of high speculation, in each case as designated by the government, where the price does not exceed \(\frac{\pma}{9}\)00 million, the loan-to-value ratio should not exceed 40%, except that such maximum loan-to-value ratio should be 50% for low-income households that (i) have an annual income of less than \(\frac{\pma}{8}\)80 million (or \(\frac{\pma}{9}\)90 million for first-home buyers), (ii) do not currently own any housing and (iii) are using the loan to purchase low-price housing valued at less than \(\frac{\pma}{6}\)600 million:
- 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 areas of excessive investment or high speculation, 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;
- any new loans secured by high-priced housing (including apartments) located in areas of excessive investment or high speculation, in each case, as designated by the government, where the price exceeds

₩900 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), are generally prohibited;

- as to loans secured by housing (including apartments) located in areas of excessive investment or high speculation, 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 (x) the principal of and interest on loans secured by such housing and (y) the interest on other debts of the borrower over (2) the borrower's annual income) should not exceed 40%, except that such maximum debt-to-income ratio is 50% for low-income households that (i) have an annual income of less than \text{\$\pi\$}80\$ million (or \text{\$\pi\$}90\$ million for first-home buyers), (ii) do not currently own any housing and (iii) are using the loan to purchase low-price housing valued at less than \text{\$\pi\$}600\$ million;
- 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 high priced housing (including apartments) located in areas of excessive investment or high speculation, as designated by the government, 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 \(\frac{1}{3}\)50 million per individual for deposits and interest in a single financial institution, regardless of when the deposits were made and 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 Enforcement Decree to the Specialized Credit Financial Business Act, 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 Enforcement Decree to the Specialized Credit Financial Business Act establishes 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:

- 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.);
- 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

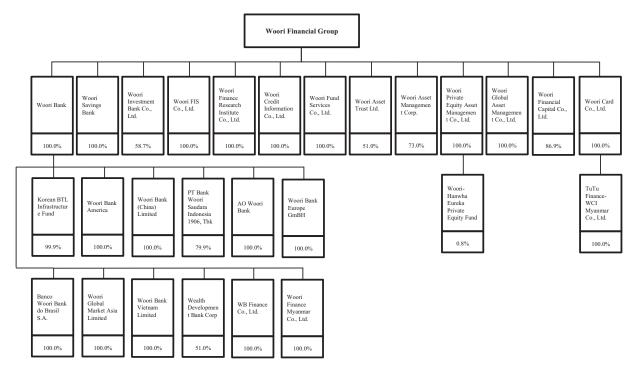
The Financial Investment Services and Capital Markets Act changed various securities regulations including those relating to public disclosure, insider trading and proxy contests, which were previously governed by the Korean Securities Exchange Act. For example, the 5% and 10% reporting obligations under 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.

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 the date of this annual report:



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, 2020:

Subsidiary	Percentage of Ownership	Total Assets	Shareholders' Equity	Operating Revenue	Net Income
		(i	in millions of Won		
Woori Bank	100.0%	₩374,310,415	₩23,520,257	₩26,838,766	₩1,363,224
Woori Card Co., Ltd	100.0%	11,366,596	2,053,610	1,388,208	120,230
Woori Financial Capital Co., Ltd	86.9%	8,880,117	826,277	218,945	(30,349)
Woori Investment Bank Co., Ltd	58.7%	4,332,474	528,880	256,079	63,937
Woori FIS Co., Ltd	100.0%	97,479	37,902	249,169	2,013
Woori Finance Research Institute					
Co., Ltd	100.0%	7,232	3,543	6,223	105
Woori Credit Information Co., Ltd	100.0%	40,860	31,030	40,010	1,879
Woori Fund Service Co., Ltd	100.0%	18,957	16,785	13,346	2,563
Woori Asset Trust Co., Ltd	51.0%	185,634	129,238	79,426	35,312
Woori Asset Management Corp	73.0%	136,460	113,049	26,158	6,797
Woori Private Equity Asset					
Management Co., Ltd	100.0%	38,035	36,026	4,773	823
Woori Global Asset Management					
Co., Ltd	100.0%	37,935	28,128	10,652	(1,449)

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, 2020 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, 2020, we had a network of 821 banking branches in Korea, 223 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.

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 the COVID-19 pandemic continuing to affect many countries worldwide, including Korea), 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 \textbf{W}85,367 billion as of December 31, 2019 to \textbf{W}97,476 billion as of December 31, 2020. In 2020, we recorded charge-offs of \textbf{W}219 billion in respect of our Won-denominated loans to small- and medium-sized enterprises, compared to charge-offs of \textbf{W}185 billion in 2019. 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 2020, 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. Notwithstanding such measures, demand for residential property in certain areas, including Seoul, continued to increase through the end of 2020, and accompanied by an increase in the prices of such property, our consumer loan portfolio increased from \$\frac{1}{2}4,003\$ billion as of December 31, 2019 to \$\frac{1}{2}138,120\$ billion as of December 31, 2020. Nevertheless, 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 2020, we recorded charge-offs of \$\frac{1}{2}182\$ billion and provisions for credit losses of \$\frac{1}{2}131\$ billion in respect of our consumer loan portfolio, compared to charge-offs of \$\frac{1}{2}27\$ billion and provisions for credit losses of \$\frac{1}{2}131\$ billion in 2019. 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 2021 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;
- 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;
- 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;
- · increased uncertainties resulting from the United Kingdom's exit from the European Union; and
- 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 particular, 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."

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. 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 of 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.

As a result of progressively deteriorating 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 2021 and for the foreseeable future remains highly uncertain.

Cessation of LIBOR

In March 2021, the FCA announced that all LIBOR settings will either cease to be provided by any administrator or no longer be representative (i) after December 31, 2021 in the case of all sterling, euro, Swiss franc and Japanese yen settings and the one-week and two-month U.S. dollar settings and (ii) after June 30, 2023 in the case of the remaining U.S. dollar settings. 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 issue, trade, hold or otherwise use various products and securities that reference LIBOR, including, among others, loans, securities, deposits, borrowings, derivatives and debentures, and have adopted specific measures for its cessation. For example, in January 2020, the Korea Federation of Banks, together with the Korean regulatory authorities and banks, established a joint taskforce to identify the impact of the cessation of LIBOR. Woori Bank has also organized an internal LIBOR cessation steering committee and a working-level taskforce team to assess, identify, monitor and manage risks that may arise from the potential discontinuation of LIBOR. As of the date of this annual report, we are continuing to transition to alternative reference rates in order to gradually reduce its exposure to LIBOR. We expect to minimize any negative impact that the cessation of LIBOR may have on our results of operations by adjusting our interest rates and deciding upon appropriate interest rate benchmarks.

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, 2016	Dec. 31, 2016	June 30, 2017	Dec. 31, 2017	June 30, 2018	Dec. 31, 2018	June 30, 2019	Dec. 31, 2019	June 30, 2020	Dec. 31, 2020
KOSPI	1,970.35	2,026.46	2,391.79	2,467.49	2,326.13	2,041.04	2,130.62	2,197.67	2,108.33	2,873.47
₩/US\$ exchange rates ⁽¹⁾	₩1,154.15	₩1,203.73	₩1,143.75	₩1,067.42	₩1,111.79	₩1,112.85	₩1,154.58	₩1,155.46	₩1,200.50	₩1,086.11
Corporate bond rates ⁽²⁾	2.39	6 2.8%	2.8%	6 3.19	% 2.99	% 2.69	% 2.09	% 2.0%	1.89	6 1.7%
Treasury bond rates(3)	1.39	6 1.6%	1.7%	6 2.19	% 2.19	% 1.89	% 1.59	6 1.4%	0.89	6 1.0%

⁽¹⁾ Represents the noon buying rate on the dates indicated.

Critical Accounting Policies

The notes to our consolidated financial statements contain a summary of our significant accounting policies, including a discussion of recently issued accounting pronouncements. Certain of these policies are critical to the portrayal of our financial condition, since they require management to make difficult, complex or subjective judgments, some of which may relate to matters that are inherently uncertain. We discuss these critical accounting policies below.

⁽²⁾ Measured by the yield on three-year Korean corporate bonds rated as A+ by the Korean credit rating agencies.

⁽³⁾ Measured by the yield on three-year treasury bonds issued by the Ministry of Economy and Finance of Korea.

Impairment of Loans and Allowance for Credit Losses

We evaluate our portfolio of loans and other financial assets at amortized cost for impairment on an ongoing basis. We have established an allowance for credit losses, which is available to absorb losses in our portfolio of loans and other financial assets at amortized cost. If we believe that additions or changes to the allowance for credit losses are required, we record provisions for credit losses (as part of our impairment loss for credit loss), which are treated as charges against current income. Loan exposures that we deem to be uncollectible, including actual loan losses, net of recoveries of previously written-off amounts, are charged directly against the allowance for credit losses.

We have established our allowance for credit losses as of December 31, 2018, 2019 and 2020 in accordance with IFRS 9. Our accounting policies under IFRS 9 for losses arising from the impairment of loans and other financial assets at amortized cost and our allowance for credit loss are described in Notes 2-(9)-6) and 3-(3) of the notes to our consolidated financial statements. The impairment model under IFRS 9 requires the calculation of allowance for credit losses based on expected credit losses instead of incurred credit losses (as was the case under IAS 39) 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 the three stages of credit risk deterioration since initial recognition, as follows:

- Stage 1 (loans and other financial assets at amortized cost for which credit risk has not significantly increased since initial recognition): the allowance for credit losses must cover expected credit losses due to possible defaults on the relevant loan or financial asset within a 12-month period from the reporting date.
- Stage 2 (loans and other financial assets at amortized cost for which credit risk has significantly increased since initial recognition): the allowance for credit losses must cover expected credit losses from all possible defaults during the expected lifetime of the relevant loan or financial asset.
- Stage 3 (credit-impaired loans and other financial assets at amortized cost): the allowance for credit
 losses must cover expected credit losses from all possible defaults during the expected lifetime of the
 relevant loan or financial asset.

At the end of every reporting period, we evaluate whether the credit risk with respect to our loans and other financial assets at amortized cost, after taking into account forward-looking information, has significantly increased since the date of their initial recognition. When evaluating whether credit risk has significantly increased, we take into account changes in the probability of default over the remaining life of a loan or financial asset, rather than changes in the amount of expected credit losses relating thereto. We distinguish between corporate and retail exposures in performing such evaluation, and consider factors such as the following as indicators of a significant increase in credit risk:

- the asset quality classification of the loan or financial asset is "precautionary" or lower;
- payments on the loan or financial asset are more than 30 days past due;
- there has been a significant decrease in the borrower's credit rating;
- in the case of a corporate borrower, the borrower is subject to a warning under an early warning system; or
- in the case of a corporate borrower, the borrower is experiencing financial difficulties (as evidenced by factors such as a capital impairment or an adverse opinion or a disclaimer of opinion by its external auditors).

In establishing our allowance for credit losses, we take into account information available as of the relevant reporting date regarding past events, current economic conditions and forecasts of future economic conditions. The probability of default and expected loss with respect to loans and other financial assets at amortized cost are

calculated by considering factors such as borrower type, credit rating and applicable portfolio. In addition, in measuring expected credit loss, we seek to use reasonable and supportable macroeconomic indicators such as economic growth rates, interest rates and stock market index levels in forecasting future economic conditions.

Our consolidated financial statements for the year ended December 31, 2020 included a total allowance for losses on loans and other financial assets at amortized cost of \(\mathbb{W}\)1,996 billion as of that date. We recorded provisions for credit losses on loans and other financial assets at amortized cost of \(\mathbb{W}\)792 billion in 2020.

We believe that the accounting estimates related to impairment of loans and other financial assets at amortized cost (or loans and receivables) and our allowance for credit losses are a "critical accounting policy" because: (1) they are highly susceptible to change from period to period based on our estimates of expected credit and losses relating to our loan portfolio; and (2) any significant difference between expected credit losses on loans and other financial assets at amortized cost (or loans and receivables), as reflected in our allowance for credit losses, and actual losses on loans and other financial assets at amortized cost (or loans and receivables) could require us to record additional provisions for credit losses or charge-offs which, if significant, could have a material impact on our profit. Our estimates of expected credit losses require significant management judgment regarding matters such as the significance of changes in credit risk and probability of default since initial recognition. Actual losses have fluctuated in the past and are expected to continue to do so, based on a variety of factors.

Valuation of Financial Assets and Liabilities

Our accounting policy for determining the fair value of financial assets and liabilities is described in Notes 2-(9)-5), 3-(2) and 11 of the notes to our consolidated financial statements.

The best evidence of fair value is a quoted price in an actively traded market. In the event that the market for a financial asset or liability is not active, a valuation technique is used. The majority of valuation techniques employ only observable market data and, as such, the reliability of the fair value measurement is high. However, certain financial instruments are valued on the basis of valuation techniques that feature one or more significant market inputs that are unobservable. Valuation techniques that rely to a greater extent on unobservable inputs require a higher level of management judgment to calculate a fair value than those based wholly on observable inputs.

Valuation techniques used to calculate fair values are discussed in Notes 2-(9)-5) and 11 of the notes to our consolidated financial statements. The main assumptions and estimates which our management considers when applying a model with valuation techniques are:

- The likelihood and expected timing of future cash flows on the instrument. These cash flows are usually governed by the terms of the instrument, although judgment may be required when the ability of the counterparty to service the instrument in accordance with the contractual terms is in doubt. Future cash flows may be sensitive to changes in market rates.
- Selecting an appropriate discount rate for the instrument. The determination of this rate is based on an assessment of what a market participant would regard as the appropriate spread of the rate for the instrument over the appropriate risk-free rate.
- Judgment to determine what model to use to calculate fair value in areas where the choice of valuation model is particularly subjective (for example, valuation of complex derivative products).

The financial instruments carried at fair value have been categorized under the three levels of the IFRS fair value hierarchy as follows:

- Level 1: Quoted prices in active markets for identical assets or liabilities.
- Level 2: Observable inputs other than Level 1 prices, such as quoted prices for similar assets or liabilities.
- Level 3: Unobservable inputs that are supported by little or no market activity and that are significant to
 the fair value of the assets or liabilities.

The fair value hierarchy requires an entity to maximize the use of observable inputs and minimize the use of unobservable inputs when measuring fair value. Fair value is a market-based measure considered from the perspective of a market participant. As such, even when market assumptions are not readily available, our own assumptions are intended to reflect those that market participants would use in pricing the asset or liability at the measurement date.

Our consolidated financial statements for the year ended December 31, 2020 included financial assets measured at fair value using a valuation technique of \(\foware \pm 40,720\) billion, representing 90.6% of total financial assets measured at fair value, and financial liabilities measured at fair value using a valuation technique of \(\foware \pm 6,538\) billion, representing 94.5% of total financial liabilities measured at fair value. As used herein, the fair value using a valuation technique means the fair value at Level 2 and Level 3 in the fair value hierarchy.

We believe that the accounting estimates related to the determination of the fair value of financial instruments are a "critical accounting policy" because: (1) they may be highly susceptible to change from period to period based on factors beyond our control; and (2) any significant difference between our estimate of the fair value of these financial instruments on any particular date and either their estimated fair value on a different date or the actual proceeds that we receive upon sale of these financial instruments could result in valuation losses or losses on disposal which may have a material impact on our profit. Our assumptions about the fair value of financial instruments we hold require significant judgment because actual valuations have fluctuated in the past and are expected to continue to do so, based on a variety of factors.

Deferred Tax Assets

Our accounting policy for the recognition of deferred tax assets is described in Notes 2-(22) and 3-(1) of the notes to our consolidated financial statements.

The recognition of deferred tax assets relies on an assessment of the probability and sufficiency of future taxable profits, future reversals of existing taxable temporary differences and ongoing tax planning strategies.

We recognize deferred tax assets and liabilities for the future tax consequences attributable to temporary differences between the financial statement carrying amounts of existing assets and liabilities and their respective tax bases, unused tax losses and unused tax credits. Deferred tax assets are recognized only to the extent it is probable that sufficient taxable profit will be available against which those deductible temporary differences, unused tax losses or unused tax credits can be utilized. This assessment requires significant management judgment and assumptions. In determining the amount of deferred tax assets, we use forecasted operating results, which are based on historical financial performance, approved business plans, including a review of the eligible carry-forward periods, available tax planning opportunities and other relevant considerations.

Our consolidated financial statements for the year ended December 31, 2020 included deferred tax assets and liabilities of \(\foatumature{\psi}\)46 billion and \(\foatumature{\psi}\)160 billion, respectively, as of that date.

We believe that the estimates related to our recognition and measurement of deferred tax assets are a "critical accounting policy" because: (1) they may be highly susceptible to change from period to period based on our assumptions regarding our future profitability; and (2) any significant difference between our estimates of future profits on any particular date and estimates of such future profits on a different date could result in an income tax expense or benefit which may have a material impact on our net income from period to period. Our assumptions about our future profitability require significant judgment and are inherently subjective.

Goodwill

Our accounting policy for goodwill is described in Note 2-(13) of the notes to our consolidated financial statements.

Goodwill is recognized as the excess of (i) the sum of the consideration transferred and the amount of any non-controlling interest in the acquiree over (ii) the net of the acquisition-date fair value of the identifiable assets acquired and the liabilities assumed. If the net amount of the acquisition-date fair value of the identifiable assets

acquired and the liabilities assumed exceeds the sum of the consideration transferred and the amount of any non-controlling interest in the acquiree, such excess is recognized as a gain as of the acquisition date.

Goodwill is not depreciated and is stated at cost less accumulated impairment losses. However, goodwill that forms part of the carrying amount of an investment in an associate or a joint venture is not separately recognized and an impairment loss recognized is not allocated to any asset, including goodwill, that forms part of the carrying amount of the investment in the associate or the joint venture.

The review of goodwill impairment reflects our management's best estimate of the certain factors. For example:

- The future cash flows of the cash generating units, or CGUs, are sensitive to the cash flows projected for the periods for which detailed forecasts are available and to assumptions regarding the long-term pattern of sustainable cash flows thereafter. Forecasts are compared with actual performance and verifiable economic data, but they necessarily and appropriately reflect our management's view of future business prospects at the time of the assessment.
- The rates used to discount future expected cash flows are based on the costs of capital assigned to individual CGUs and can have a significant effect on their valuation. The cost of capital percentage is generally derived from a Capital Asset Pricing Model, which incorporates inputs reflecting a number of financial and economic variables, including the risk-free interest rate in the country concerned and a premium for the inherent risk of the business being evaluated. These variables are subject to fluctuations in external market rates and economic conditions beyond our control and therefore require the exercise of significant judgment and are consequently subject to uncertainty.

A decline in a CGU's expected cash flows or an increase in its cost of capital reduces the CGU's estimated recoverable amount. If this is lower than the carrying value of the CGU, a charge for impairment of goodwill is recognized in the statement of comprehensive income for the year.

The accuracy of forecast cash flows is subject to a high degree of uncertainty in volatile market conditions. In such market conditions, our management retests goodwill for impairment more frequently than once a year to ensure that the assumptions on which the cash flow forecasts are based continue to reflect current market conditions and management's best estimate of future business prospects.

Our consolidated financial statements for the year ended December 31, 2020 included the value of goodwill of \widetilde{W}334 billion as of that date.

We believe that the accounting estimates related to the fair values of our acquired goodwill are a "critical accounting policy" because: (1) they may be highly susceptible to change from period to period since they require assumptions about future cash flows, run-off rates and profitability; and (2) any significant changes in our estimates from period to period could result in the recognition of impairment losses which may have a material impact on our net income. Our assumptions about estimated future cash flows, run-off rates and profitability require significant judgment and the fair values of the goodwill could fluctuate in the future, based on a variety of factors.

Defined Benefit Obligations

Our accounting policy for the recognition of defined benefit obligations is described in Notes 2-(21) and 3-(4) of the notes to our consolidated financial statements.

We operate both defined contribution and defined benefit pension plans for our employees. Contributions to the defined contribution plan are recognized as employee benefit expenses in the period in which an employee has rendered services entitling them to the contributions. For defined benefit pension plans, the cost of providing benefits is determined using the Projected Unit Credit Method, with actuarial valuations being carried out at the end of each reporting period. Remeasurement, which comprises actuarial gains and losses, the effect of the changes to the asset ceiling (if applicable) and the return on plan assets (excluding interest), is reflected immediately in our statement of financial position with a charge or credit recognized in other comprehensive income in the period in which it occurs.

Remeasurement recognized in other comprehensive income is reflected immediately in retained earnings and will not be reclassified to profit or loss. 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 and past service costs, as well as gains and losses on curtailments and settlements), net interest expense (income) and remeasurement. We present 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 defined benefit obligations recognized in our consolidated statement of financial position represent the actual deficit or surplus in our defined benefit plans. Any surplus resulting from this calculation is 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 (i) when we are not able to cancel our proposal for termination benefits, or (ii) when we have recognized the cost of restructuring that accompanies the payment of termination benefits.

We believe that the estimates related to our recognition of defined benefit obligations are a "critical accounting policy" because: (1) they may be highly susceptible to change from period to period because they require us to make assumptions about discount rates, future wage growth rates, retirement rates and mortality rates; and (2) any significant remeasurement of net defined benefit obligations may have a material impact on our other comprehensive income and retained earnings. Our actuarial assumptions require significant judgment due to the complexities involved in the valuation of our defined benefit obligations and their long-term nature.

For an analysis of the sensitivity of our defined benefit obligations to changes in actuarial assumptions, see Note 24 of the notes to our consolidated financial statements.

Results of Operations

Net Interest Income

The following table shows, for the years indicated, the principal components of our interest income:

	Year ended December 31,					Percentage change		
	2018 2019 2020			2019/2018	2020/2019			
		(in l	billio	ns of W	on)		(%	6)
Interest income								
Financial assets at fair value through profit or loss	₩ 5	4	₩	51	₩	49	(5.6)%	(3.9)%
Financial assets at fair value through other comprehensive		_						
income	28	0		475		438	69.6	(7.8)
Financial assets at amortized cost:	2.5	_		40.6		202	15.6	(10.0)
Securities at amortized cost	37	7		436		383	15.6	(12.2)
Loans and other financial assets at amortized cost:	1.1	2		1.11		~ 4	24.0	(61.7)
Interest on due from banks	11	-		141	0	54	24.8	(61.7)
Interest on loans	8,83			9,444	8	3,570	6.9	(9.3)
Interest on other receivables	2	8		30		31	7.1	3.3
Subtotal	9,35	0	1	0,051	9	,038	7.5	(10.1)
Total interest income	9,68	4	1	0,577	_ 9	,524	9.2	(10.0)
Interest expense								
Deposits	2,91	7		3,424	2	2,487	17.4	(27.4)
Borrowings	30	7		383		270	24.8	(29.5)
Debentures	72	0		777		723	7.9	(6.9)
Others	8	9		89		37	0.0	(58.4)
Lease liabilities		_		9		9	N/A ⁽¹⁾	0.0
Total interest expense	4,03	3	-	4,683	3	3,526	16.1	(24.7)
Net interest income	₩5,65	1	₩ :	5,894	₩5	,998	4.3%	1.8%
Net interest margin ⁽²⁾	1.8	_ 0%		1.749	6	1.65%	6	

Comparison of 2020 to 2019

Interest Income. Interest income decreased 10.0% from \textbf{\psi}10,577 billion in 2019 to \textbf{\psi}9,524 billion in 2020, primarily due to a 9.3% decrease in interest on loans. The average yield on interest-earning assets decreased by 49 basis points from 3.11% in 2019 to 2.62% in 2020, which reflected an overall decrease in the general level of interest rates in Korea in 2020 compared to 2019. The effect of this decrease was partially offset by a 6.9% increase in average balance of interest-earning assets from \textbf{\psi}339,634 billion in 2019 to \textbf{\psi}363,140 billion in 2020, principally due to the growth of our loan portfolio.

The 9.3% decrease in interest on loans from Ψ 9,444 billion in 2019 to Ψ 8,570 billion in 2020 was principally due to:

- a 58 basis point decrease in the average yield on commercial and industrial loans from 3.27% in 2019 to 2.69% in 2020, which was partially offset by an 8.4% increase in the average volume of such loans from \text{\psi}110,291 billion in 2019 to \text{\psi}119,586 billion in 2020;
- a 45 basis point decrease in the average yield on general purpose household loans (including home equity loans) from 4.10% in 2019 to 3.65% in 2020, which was partially offset by a 3.8% increase in the average volume of such loans from \(\forall 71,413\) billion in 2019 to \(\forall 74,124\) billion in 2020;
- a 116 basis point decrease in the average yield on trade financing loans from 2.65% in 2019 to 1.49% in 2020, which was enhanced by a 7.7% decrease in the average volume of such loans from \(\pi\)1,112 billion in 2019 to \(\prec{\pi}\)10,253 billion in 2020; and
- a 43 basis point decrease in the average yield on mortgage loans from 3.22% in 2019 to 2.79% in 2020, which was partially offset by a 7.2% increase in the average volume of such loans from \(\prec{\psi}\)53,296 billion in 2019 to \(\prec{\psi}\)57,123 billion in 2020.

The average yields on commercial and industrial loans, general purpose household loans, trade financing loans and mortgage loans decreased mainly due to the overall decrease in the general level of interest rates in Korea in 2020 compared to 2019. The average volumes of commercial and industrial loans, general purpose household loans and mortgage loans increased primarily due to increased demand from borrowers in need of financing in light of the COVID-19 pandemic as well as an increase in home purchases in the case of general purpose household loans and mortgage loans. The average volume of trade financing loans decreased mainly as a result of lower demand for such loans due to decreases in exports and imports due to the COVID-19 pandemic.

Overall, the average yield on loans decreased by 54 basis points from 3.59% in 2019 to 3.05% in 2020, while the average volume of loans increased 6.6% from \$263,121 billion in 2019 to \$280,522 billion in 2020.

Interest Expense. Interest expense decreased 24.7% from \displays4,683 billion in 2019 to \displays,526 billion in 2020, primarily due to a 27.4% decrease in interest expense on deposits, which was enhanced by a 29.5% decrease in interest expense on borrowings. The average cost of interest-bearing liabilities decreased by 43 basis points from 1.45% in 2019 to 1.02% in 2020, which mainly reflected the overall decrease in the general level of interest rates in Korea in 2020 compared to 2019. The effect of this decrease was partially offset by a 7.1% increase in the average balance of interest-bearing liabilities from \displays23,855 billion in 2019 to \displays4347,004 billion in 2020, which was principally due to increases in the average balances of deposits, debentures and borrowings.

The 24.7% decrease in interest expense on deposits from \$3,424 billion in 2019 to \$2,487 billion in 2020 resulted mainly from:

a 42 basis point decrease in the average cost of Won-denominated time and savings deposits from 1.33% in 2019 to 0.91% in 2020, which was partially offset by a 6.5% increase in the average balance of such deposits from \(\forall 211,732\) billion in 2019 to \(\forall 225,563\) billion in 2020;

N/A = not applicable.

⁽²⁾ The ratio of net interest income to average interest-earning assets.

- a 60 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 1.63% in 2019 to 1.03% in 2020, which was partially offset by a 20.5% increase in the average balance of such deposits from \(\foware\text{\pi}\)28,930 billion in 2019 to \(\foware\text{\pi}\)34,861 billion in 2020; and
- a 64.8% decrease in the average balance of certificates of deposits from \(\foat\)4,760 billion in 2019 to \(\foat\)4,677 billion in 2020, which was enhanced by an 89 basis point decrease in the average cost of certificates of deposits from 2.21% in 2019 to 1.31% in 2020.

The decreases in the average cost of Won-denominated time and savings deposits, other deposits and certificates of deposits were primarily attributable to the overall decrease in the general level of interest rates in Korea in 2020 compared to 2019, 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 2020 resulting from the COVID-19 pandemic. The decrease in the average balance of certificates of deposit was principally the result of lower sales of such products due to our decreased need for such sales in light of capital requirements.

Overall, the average cost of deposits decreased by 44 basis points from 1.35% in 2019 to 0.91% in 2020, while the average volume of deposits increased 7.3% from \$253,635 billion in 2019 to \$272,211 billion in 2020.

The 29.5% decrease in interest expense on borrowings from \display383 billion in 2019 to \display270 billion in 2020 was primarily due to a 73 basis point decrease in the average cost of borrowings from 1.99% in 2019 to 1.26% in 2020, which mainly reflected the overall decrease in the general level of interest rates in Korea in 2020 compared to 2019. Such decrease was partially offset by an 11.0% increase in the average balance of borrowings from \display19,258 billion in 2019 to \display21,368 billion in 2020, 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 6.9% decrease in interest expense on debentures from \(\foat \)777 billion in 2019 to \(\foat \)723 billion in 2020 was primarily due to a 39 basis point decrease in the average cost of debentures from 2.63% in 2019 to 2.24% in 2020, which mainly reflected the overall decrease in the general level of interest rates in Korea in 2020 compared to 2019. Such decrease was partially offset by a 9.4% increase in the average balance of debentures from \(\foat \)29,536 billion in 2019 to \(\foat \)32,315 billion in 2020, which was mainly due to additional debentures attributable to the addition of Woori Financial Capital as a consolidated subsidiary starting on October 20, 2020.

Net Interest Margin. Net interest margin represents the ratio of net interest income to average interest-earning assets. Our overall net interest margin decreased from 1.74% in 2019 to 1.65% in 2020, as a 6.9% increase in the average balance of our interest-earning assets from \textbf{\psi}339,634 billion in 2019 to \textbf{\psi}363,140 billion in 2020 outpaced a 1.8% increase in our net interest income from \textbf{\psi}5,894 billion in 2019 to \textbf{\psi}5,998 billion in 2020. The growth in average interest-earning assets was slightly outpaced by a 7.1% increase in average interest-bearing liabilities from \textbf{\psi}323,855 billion in 2019 to \textbf{\psi}347,004 billion in 2020. The decrease in interest income was also outpaced by the decrease in interest expense, resulting in the increase in net interest income. The decrease in net interest margin was driven mainly by a decrease 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 1.66% in 2019 to 1.60% in 2020. The decrease in our net interest spread reflected a larger decrease in the average yield on interest-earning assets compared to the decrease in the average cost of interest-bearing liabilities 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 2020 compared to 2019.

Comparison of 2019 to 2018

Interest Income. Interest income increased 9.2% from \(\foatsymbol{\psi}\)9,684 billion in 2018 to \(\foatsigma\)10,577 billion in 2019, primarily due to a 6.9% increase in interest on loans. The average balance of interest-earning assets increased 7.9% from \(\foatsigma\)314,642 billion in 2018 to \(\foatsigma\)339,634 in 2019, principally due to the growth of our loan and

securities portfolios. The effect of this increase was enhanced by a 3 basis point increase in the average yield on interest-earning assets from 3.08% in 2018 to 3.11% in 2019, which reflected an overall increase in the general level of interest rates in Korea in 2019 compared to 2018.

The 6.9% increase in interest on loans from \(\foat{\psi}\)8,832 billion in 2018 to \(\foat{\psi}\)9,444 billion in 2019 was principally due to:

- a 6.5% increase in the average volume of general purpose household loans (including home equity loans) from \(\foware 67,042\) billion in 2018 to \(\foware 71,413\) billion in 2019, which was enhanced by a 15 basis point increase in the average yield on such loans from 3.95% in 2018 to 4.10% in 2019;
- a 5.8% increase in the average volume of commercial and industrial loans from \(\foathbf{W}\)104,269 billion in 2018 to \(\foathbf{W}\)110,291 billion in 2019, which was partially offset by a 3 basis point decrease in the average yield on such loans from 3.30% in 2018 to 3.27% in 2019; and
- a 10.0% increase in the average volume of mortgage loans from \(\foat\)48,445 billion in 2018 to \(\foat\)53,296 billion in 2019. The average yield on such loans remained stable at 3.22% in 2018 and 2019.

The average volumes of general purpose household loans, commercial and industrial loans and mortgage loans increased primarily due to increased demand for such loans from customers. The average yield on general purpose household loans increased mainly due to the overall increase in the general level of interest rates in Korea in 2019 compared to 2018. The average yield on commercial and industrial loans decreased mainly due to a decrease in the general level of interest rates in Korea commencing in the second half of 2019, which was reflected in such loans earlier than other types of loans. See "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."

Overall, the average volume of loans increased 5.1% from \text{\$\pi\$250,266 billion in 2018 to \text{\$\pi\$263,121 billion in 2019, while the average yield on loans increased by 6 basis points from 3.53% in 2018 to 3.59% in 2019.

Our financial assets portfolio consists primarily of investment financial assets (i.e., financial assets at fair value through other comprehensive income and securities at amortized cost), a majority of which comprise debt securities, including those issued by Korean financial institutions, corporations and government-owned or controlled enterprises. Interest income on financial assets at fair value through other comprehensive income increased 69.6% from \text{\text{\text{W}}280} billion in 2018 to \text{\text{\text{\text{W}}475} billion in 2019, while interest income on securities at amortized cost increased 15.6% from \text{\text{\text{W}}377} billion in 2018 to \text{\text{\text{\text{\text{W}}436} billion in 2019. Such increases were primarily due to a 34.5% increase in the average balance of such investment financial assets from \text{\text{\text{W}}32,404} billion in 2018 to \text{\text{\text{\text{\text{\text{W}}43,568}} billion in 2019, which was further enhanced by a 6 basis point increase in the average yield on such investment financial assets from 2.03% in 2018 to 2.09% in 2019. The increase in the average balance of investment financial assets principally reflected an increase in the amount of financial institution bonds that we held as investment financial assets. The increase in the average yield on investment financial assets resulted mainly from the overall increase in the general level of interest rates in Korea in 2019 compared to 2018.

Interest Expense. Interest expense increased 16.1% from \(\pi4,033\) billion in 2018 to \(\pi4,683\) billion in 2019, primarily due to a 17.4% increase in interest expense on deposits, which was enhanced by a 24.8% increase in interest expense on borrowings and a 7.9% increase in interest expense on debentures. The average balance of interest-bearing liabilities increased 7.9% from \(\pi300,174\) billion in 2018 to \(\pi323,855\) billion in 2019, principally due to an increase in the average balance of deposits. The effect of this increase was enhanced by an 11 basis point increase in the average cost of interest-bearing liabilities from 1.34% in 2018 to 1.45% in 2019, which mainly reflected the overall increase in the general level of interest rates in Korea in 2019 compared to 2018.

The 17.4% increase in interest expense on deposits from \clubsuit 2,917 billion in 2018 to \clubsuit 3,424 billion in 2019 resulted mainly from:

- a 10 basis point increase in the average cost of Won-denominated time and savings deposits from 1.23% in 2018 to 1.33% in 2019, which was enhanced by a 7.6% increase in the average balance of such deposits from ₩196,806 billion in 2018 to ₩211,732 billion in 2019; and
- a 31 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 1.31% in 2018 to 1.63% in 2019, which was enhanced by a 10.2% increase in the average balance of such deposits from ₩26,254 billion in 2018 to ₩28,930 billion in 2019.

The increases in the average cost of Won-denominated time and savings deposits and other deposits were primarily attributable to the overall increase in the general level of interest rates in Korea in 2019 compared to 2018 as well as our efforts to increase the proportion of deposits compared to loans and the competition in connection therewith, while the increases in the average volume of such deposits mainly reflected such efforts as well as customers' continuing preference for low-risk products and institutions in Korea in light of the continuing uncertainty in financial markets in 2019.

Overall, the average cost of deposits increased by 12 basis points from 1.23% in 2018 to 1.35% in 2019, while the average volume of deposits increased 7.2% from \display236,663 billion in 2018 to \display253,635 billion in 2019.

The 24.8% increase in interest expense on borrowings from \(\pm\)307 billion in 2018 to \(\pm\)383 billion in 2019 was primarily due to a 22.3% increase in the average balance of borrowings from \(\pm\)15,752 billion in 2018 to \(\pm\)19,258 billion in 2019, which was mainly attributable to our increased reliance on borrowings to meet our funding needs. Such increase was enhanced by a 4 basis point increase in the average cost of borrowings from 1.95% in 2018 to 1.99% in 2019, which mainly reflected the overall increase in the general level of interest rates in Korea in 2019 compared to 2018.

The 7.9% increase in interest expense on debentures from \(\pi\)720 billion in 2018 to \(\pi\)777 billion in 2019 was primarily due to a 7.0% increase in the average balance of debentures from \(\pi\)27,613 billion in 2018 to \(\pi\)29,536 billion in 2019, which was mainly attributable to our increased use of debentures to meet our funding needs. Such increase was enhanced by a 2 basis point increase in the average cost of debentures from 2.61% in 2018 to 2.63% in 2019, which mainly reflected the overall increase in the general level of interest rates in Korea in 2019 compared to 2018.

Net Interest Margin. Our overall net interest margin decreased from 1.80% in 2018 to 1.74% in 2019, as a 7.9% increase in the average balance of our interest-earning assets from \(\pi\)314,642 billion in 2018 to \(\pi\)339,634 billion in 2019 outpaced a 4.3% increase in our net interest income from \(\pi\)5,651 billion in 2018 to \(\pi\)5,894 billion in 2019. The growth in average interest-earning assets was matched by a 7.9% increase in average interest-bearing liabilities from \(\pi\)300,174 billion in 2018 to \(\pi\)323,855 billion in 2019. The increase in interest income outpaced the increase in interest expense, resulting in the increase in net interest income. The decrease in net interest margin was driven mainly by a decrease in our net interest spread from 1.74% in 2018 to 1.66% in 2019. The decrease in our net interest spread reflected a larger increase in the average cost of interest-bearing liabilities between the two periods compared to the increase in the average yield on interest-earning assets, as interest rates on interest-bearing liabilities adjusted later than those on interest-earning assets in the context of a lower interest rate environment in the second half of 2019. See "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."

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		
	2018 2019		20	20	2019/2018	2020/2019		
	(in b	illions o	f W	on)		(%)	
Impairment loss due to credit loss on financial assets measured at fair value through other comprehensive income	₩ ((2)	₩ (3)	₩	(2)	50.0%	(33.3)%
Impairment loss due to credit loss on securities at amortized cost	((2)		1		1	N/M ⁽¹⁾	(0.0)
amortized cost	(41	5)	(38	6)	(792)	(7.0)	105.2
Reversal of provisions on guarantees	10)6		4		18	(96.2)	350.0
Reversal of provisions on (provisions for) unused loan commitments	(1	7)		9		(10)	N/M	N/M
Total impairment losses due to credit loss	₩(33	<u>B</u> (0)	₩(37	4) =	₩(784)	13.3%	109.6%

⁽¹⁾ N/M = not meaningful.

Comparison of 2020 to 2019

Our impairment losses due to credit loss increased 109.6% from \display374 billion in 2019 to \display784 billion in 2020, primarily due to a 105.2% increase in provisions for credit loss on loans and other financial assets at amortized cost. Such increase in provisions for credit loss on loans and other financial assets at amortized cost from \display386 billion in 2019 to \display792 billion in 2020 was primarily due to an increase in provision for loan losses in respect of our loan portfolio, which was mainly attributable to an expected deterioration in the overall asset quality of our loan portfolio due to the COVID-19 pandemic.

Comparison of 2019 to 2018

Our impairment losses due to credit loss increased 13.3% from \www.330 billion in 2018 to \www.374 billion in 2019, primarily due to a 96.2% decrease in reversal of provisions on guarantees from 2018 to 2019, which was offset in part by a 7.0% decrease in provisions for credit loss on loans and other financial assets at amortized cost and a change in reversal of provision on (provision for) unused loan commitments during the same period. The 96.2% decrease in reversal of provisions on guarantees from \www.106 billion in 2018 to \www.4 billion in 2019 was mainly attributable to significant reversals in 2018 caused by the improvement in the financial condition of certain corporate customers on behalf of which we had extended guarantees and loans, which were not repeated in 2019. The 7.0% decrease in provisions for credit loss on loans and other financial assets at amortized cost from \www.415 billion in 2018 to \www.386 billion in 2019 was primarily due to our efforts to improve the overall asset quality of our loan portfolio. Reversal of provision on (provision for) unused loan commitments changed from a net provision of \www.415 billion in 2018 to a net reversal of \www.99 billion in 2019, mainly reflecting our efforts to reduce unused loan commitments in 2019.

Allowance for Credit Losses

For information on our allowance for credit losses, see "Item 5.A. Operating Results—Critical Accounting Policies—Impairment of Loans and Allowance for Credit Losses" and "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 o	f December :	31,
	2018	2019	2020
Impaired corporate loans as a percentage of total corporate loans	0.7%	0.5%	0.5%
Allowance for credit losses for corporate loans as a percentage of total corporate			
loans	0.9	0.7	0.8
Allowance for credit losses for corporate loans as a percentage of impaired			
corporate loans	120.1	136.4	172.4
Net charge-offs of corporate loans as a percentage of total corporate loans	0.1	0.1	0.1

During 2020, impaired corporate loans and net charge-offs, each as a percentage of total corporate loans, remained stable at 0.5% and 0.1% respectively. However, allowance for credit losses for corporate loans as a percentage of total corporate loans and as a percentage of impaired corporate loans increased, as a 22.7% increase in allowance for credit losses for corporate loans from \text{\text{\$\text{\$W\$}}}1,009 billion as of December 31, 2019 to \text{\text{\$\tex{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$

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 o	f December :	31,
	2018	2019	2020
Impaired 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 total consumer			
loans	0.3	0.2	0.3
Allowance for credit losses for consumer loans as a percentage of impaired			
consumer loans	75.2	69.6	76.7
Net charge-offs of consumer loans as a percentage of total consumer loans	0.1	0.1	0.1

During 2020, impaired consumer loans and allowance for credit losses for consumer loans, each as a percentage of total consumer loans, increased as an 11.4% increase in total consumer loans from

W124,003 billion as of December 31, 2019 to ₩138,119 billion as of December 31, 2020 was outpaced by both a 28.5% increase in impaired consumer loans from ₩418 billion as of December 31, 2019 to ₩537 billion as of December 31, 2020 and a 41.6% increase in allowance for credit losses for consumer loans from ₩291 billion as of December 31, 2019 to ₩412 billion as of December 31, 2020. Allowance for credit losses for consumer loans as a percentage of impaired consumer loans also increased, as the increase in allowance for credit losses for consumer loans outpaced the increase in impaired consumer loans due to an expected deterioration in the overall asset quality of our consumer loan portfolio due to the COVID-19 pandemic. Net charge-offs of consumer loans as a percentage of total corporate loans remained stable at 0.1% as of December 31, 2019 and 2020.

During 2019, impaired consumer loans and net charge-offs, each as a percentage of total consumer loans, remained stable. However, allowance for credit losses for consumer loans as a percentage of total consumer loans and as a percentage of impaired consumer loans decreased as the degree of overall impairment of our impaired consumer loans was not as severe in 2019 compared to 2018, as a 1.0% decrease in allowance for credit losses for consumer loans from \(\forall 294\) billion as of December 31, 2018 to \(\forall 291\) billion as of December 31, 2019 was enhanced by both a 5.9% increase in the total amount of our consumer loans from \(\forall 117,095\) billion as of December 31, 2019 and a 6.9% increase in impaired consumer loans from \(\forall 391\) billion as of December 31, 2018 to \(\forall 418\) billion as of December 31, 2019.

The following table shows, for the years indicated, certain information regarding our impaired credit card balances:

	As o	f December :	31,
	2018	2019	2020
Impaired credit card balances as a percentage of total credit card balances ⁽¹⁾ Allowance for credit losses for credit card balances as a percentage of total credit	2.6%	2.7%	2.1%
card balances ⁽¹⁾	3.2	3.3	3.0
credit card balances ⁽¹⁾	124.4	120.2	143.9
balances ⁽¹⁾	2.3	2.6	2.1

⁽¹⁾ Includes corporate credit card balances.

During 2020, 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. However, allowance for credit losses for credit card balances as a percentage of impaired credit card balances increased, as a 5.5% decrease in our allowance for credit losses for credit card balances from \(\fomathbf{W}274\) billion as of December 31, 2019 to \(\fomathbf{W}259\) billion as of December 31, 2020 was outpaced by a 21.1% decrease in impaired credit card balances from \(\fomathbf{W}228\) billion as of December 31, 2019 to \(\fomathbf{W}180\) billion as of December 31, 2020. Net charge-offs of credit card balances as a percentage of total credit card balances decreased mainly as a result of an 18.6% decrease in net charge-offs of credit card balances from \(\fomathbf{W}221\) billion as of December 31, 2019 to \(\fomathbf{W}180\) billion as of December 31, 2019, primarily due to the decrease in delinquency rates due to heightened credit review standards.

During 2019, impaired credit card balances and allowance for credit losses for credit card balances, each as a percentage of total credit card balances, increased mainly due to a deterioration in the overall credit quality of our credit card portfolio. However, allowance for credit losses for credit card balances as a percentage of impaired credit card balances decreased, as a 5.4% increase in our allowance for credit losses for credit card balances from \text{\text{\text{\$\psi}}}260 billion as of December 31, 2018 to \text{\text{\$\psi}}274 billion as of December 31, 2019 was outpaced by a 9.1% increase in impaired credit card balances from \text{\text{\$\psi}}209 billion as of December 31, 2018 to \text{\text{\$\psi}}228 billion as of December 31, 2019. Net charge-offs of credit card balances as a percentage of total credit card balances increased mainly as a result of a 19.5% increase in net charge-offs of credit card balances from \text{\text{\$\psi}}185 billion as of December 31, 2018 to \text{\text{\$\psi}}221 billion as of December 31, 2019, primarily due to the deterioration in the overall credit quality of our credit card portfolio.

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 Decem	Percentage change		
	2018 2019 2020 20			2019/2018	2020/2019
	(in	billions of W	(%	(%)	
Fees and commissions income	₩1,681	₩1,709	₩1,694	1.7%	(0.9)%
Fees and commissions expense	(611)	(607)	(681)	(0.7)	12.0
Total fees and commissions income, net	₩1,070	₩1,103	₩1,013	3.1	(8.1)

Comparison of 2020 to 2019

Our net fees and commissions income decreased 8.1% from \$1,103 billion in 2019 to \$1,013 billion in 2020, mainly due to a 12.0% increase in fees and commissions expense from \$607 billion in 2019 to \$681 billion in 2020, which was enhanced by a 0.9% decrease in fees and commissions income from \$1,709 billion in 2019 to \$1,694 billion in 2020.

The 12.0% increase in fees and commissions expense was primarily due to a 30.0% increase in fees and commissions paid from \text{\$\psi\$190 billion in 2019 to \$\psi\$247 billion in 2020 and a 3.9% increase in credit card commissions from \text{\$\psi\$408 billion in 2019 to \$\psi\$424 billion in 2020. The increase in fees and commissions paid was primarily attributable to increases in the fees and commissions paid with respect to loans and payments in foreign currencies. The increase in credit card commissions was mainly due to an increase in the overall credit card commission rate as well as an increase in commissions related to credit card benefits.

The 0.9% decrease in fees and commissions income was primarily due to a 7.5% decrease in fees and commissions received on credit cards from \(\psi_549\) billion in 2019 to \(\psi_508\) billion in 2020, a 29.2% decrease in fees and commissions received on securities business from \text{\$\psi\$}113 billion in 2019 to \text{\$\psi\$}80 billion in 2020, a 25.0% decrease in fees and commissions received on foreign exchange from \text{\textbf{W}}92 billion in 2019 to \text{\textbf{W}}69 billion in 2020 and a 10.6% decrease in fees and commissions from trust management from \text{\text{\$\psi}}180 billion in 2019 to W161 billion in 2020, which were offset in part by a significant increase in fees and commissions received related to leases from \(\psi_5\) billion in 2019 to \(\psi_84\) billion in 2020 and a 17.7% increase in other fees from ₩141 billion in 2019 to ₩166 billion in 2020. The decrease in fees and commissions received on credit cards was mainly due to a decrease in rates on credit card commissions received from merchants in accordance with Korean government policy, and the decrease in fees and commissions received on securities business and trust management was primarily attributable to the FSC's restrictions on the sale of certain products included in such operations, including equity-linked trust products, from March 2020. The decrease in fees and commissions received on foreign exchange was primarily attributable to a general decrease across foreign currency transactions due to the COVID-19 pandemic, including foreign exchange, international wire transfers and foreign trade. The increase in fees and commissions received related to leases was primarily due to the additional fees and commissions received related to leases attributable to the addition of Woori Financial Capital as a consolidated subsidiary starting on October 20, 2020.

Comparison of 2019 to 2018

Our net fees and commissions income increased 3.1% from \$1,070 billion in 2018 to \$1,103 billion in 2019, mainly due to a 1.7% increase in fees and commissions income from \$1,681 billion in 2018 to \$1,709 billion in 2019, which was enhanced by a 0.7% decrease in fees and commissions expense from \$611 billion in 2018 to \$607 billion in 2019.

The 1.7% increase in fees and commissions income was primarily due to a 39.4% increase in fees and commissions received on foreign exchange from \text{\text{\text{W}}66} billion in 2018 to \text{\text{\text{\text{W}}92} billion in 2019, a 17.7% increase in fees and commissions received on securities business from \text{\text{\text{W}}96} billion in 2018 to \text{\text{\text{W}}113} billion in 2019, a 9.8% increase in fees and commissions received related to credit from \text{\text{\text{W}}173} billion in 2018 to \text{\text{\text{W}}190} billion in 2018 to \text{\text{\text{W}}121} billion in 2018 to

W137 billion in 2019, which were offset in part by an 8.3% decrease in fees and commissions received on credit cards from W599 billion in 2018 to W549 billion in 2019. The increase in fees and commissions received on foreign exchange was primarily attributable to an increase in foreign exchange transactions due to an expansion of our overseas operations, the increase in fees and commissions received on securities business was mainly due to the expansion of our asset management business, the increase in fees and commissions received related to credit was principally due to growth in our loan portfolio, and the increase in fees and commissions received for electronic finance was mainly attributable to the expansion of our online and electronic platforms. The decrease in fees and commissions received on credit cards was mainly due to a decrease in rates on credit card commissions received from merchants in accordance with Korean government policy.

The 0.7% decrease in fees and commissions expense was primarily due to a 4.9% decrease in credit card commissions from \(\pi\)429 billion in 2018 to \(\pi\)408 billion in 2019, which was offset in part by an 8.6% increase in fees and commissions paid from \(\pi\)175 billion in 2018 to \(\pi\)190 billion in 2019. The decrease in credit card commissions was mainly due to a decrease in the average volume of our credit card receivables. The increase in fees and commissions paid was primarily attributable to increases in the fees and commissions paid with respect to overseas and agency-related transactions.

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 en	ded Decer	Percentage change		
	2018 2019		2020	2019/2018	2020/2019
	(in billions of Won)			(%)	
Net gain on financial instruments at fair value through profit or					
loss	₩214	₩ 25	₩422	(88.3)%	$N/M^{(1)}$
Net gain on financial assets at fair value through other					
comprehensive income	2	11	24	450.0	118.2
Net gain arising on disposals of financial assets at amortized					
cost	80	102	44	27.5	(56.9)
Total net gain on financial instruments	₩296	₩139	₩490	(53.0)	252.5

⁽¹⁾ N/M = not meaningful.

Comparison of 2020 to 2019

Our net gain on financial instruments increased 252.5% from \text{\$\psi}\$139 billion in 2019 to \text{\$\psi}\$490 billion in 2020. This increase was primarily attributable to a significant increase in net gain on financial instruments at fair value through profit or loss from \text{\$\psi}\$25 billion in 2019 to \text{\$\psi}\$422 billion in 2020, which was partially offset by a 56.9% decrease in net gain arising on disposals of financial assets at amortized cost from \text{\$\psi}\$102 billion in 2019 to \text{\$\psi}\$44 billion in 2020.

The significant increase in net gain on financial instruments at fair value through profit or loss resulted mainly from a significant increase in net gain on the transaction and valuation of currency derivatives from \$17 billion in 2019 to \$656 billion in 2020, which was offset in part by a 148.6% increase in net loss on the transaction and valuation of interest rate derivatives from \$109 billion in 2019 to \$271 billion in 2020.

The 56.9% decrease in net gain arising on disposals of financial assets at amortized cost was primarily attributable to gains realized on sales of certain non-performing project finance loans held by us in 2019, which were not repeated in 2020.

Comparison of 2019 to 2018

Our net gain on financial instruments decreased 53.0% from \text{\psi}296 billion in 2018 to \text{\psi}139 billion in 2019. This decrease was primarily attributable to an 88.3% decrease in net gain on financial instruments at fair value through profit or loss from \text{\psi}214 billion in 2018 to \text{\psi}25 billion in 2019, which was partially offset by a 27.5% increase in net gain arising on disposal of financial assets at amortized cost from \text{\psi}80 billion in 2018 to \text{\psi}102 billion in 2019.

The 88.3% decrease in net gain on financial instruments at fair value through profit or loss resulted mainly from a 70.1% decrease in gain on financial instruments at fair value through profit or loss mandatorily measured at fair value from \text{\text{W}}197 billion in 2018 to \text{\text{\text{W}}59 billion in 2019}. Such decrease was primarily attributable to an 85.0% decrease in net gain on the transaction and valuation of currency derivatives from \text{\text{W}}113 billion in 2018 to \text{\text{W}}17 billion in 2019, which was enhanced by a 127.1% increase in net loss on the transaction and valuation of interest rate derivatives from \text{\text{\text{W}}48 billion in 2018 to \text{\text{\text{W}}109 billion in 2019}.

The 27.5% increase in net gain arising on disposals of financial assets at amortized cost was primarily attributable to a 29.1% increase in net gain arising on disposals of loans and other financial assets at amortized cost from \(\forall \)79 billion in 2018 to \(\forall \)102 billion in 2019. Such increase mainly reflected gains realized on sales of certain non-performing project finance loans held by us in 2019.

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 e	nded Decem	ber 31,	Percentag	ge change
	2018	2019	2020	2019/2018	2020/2019
	(in	(%	(%)		
Employee benefits	₩2,322	₩2,391	₩2,533	3.0%	5.9%
Depreciation and amortization	217	481	521	121.7	8.3
Other general and administrative expenses	1,085	894	903	(17.6)	1.0
General and administrative expenses	₩3,624	₩3,766	₩3,956	3.9	5.0

Comparison of 2020 to 2019

Our general and administrative expenses increased 5.0% from \$3,766 billion in 2019 to \$3,956 billion in 2020, primarily as a result of a 5.9% increase in employee benefits from \$2,391 billion in 2019 to \$2,533 billion in 2020, which was enhanced by an 8.3% increase in depreciation and amortization expenses from \$481 billion in 2019 to \$521 billion in 2020.

The 5.9% increase in employee benefits was primarily due to a 4.1% increase in short-term employee benefits, which include salaries and other employee benefits, from \(\foadsigma 2,060\) billion in 2019 to \(\foadsigma 2,144\) billion in 2020. Such increase was enhanced by a 29.5% increase in termination benefits from \(\foadsigma 156\) billion in 2019 to \(\foadsigma 202\) billion in 2020. The increase in short-term employee benefits was principally due to an increase in employee salaries due to increases in average wages and the number of employees attributable to the addition of Woori Financial Capital as a consolidated subsidiary on October 20, 2020, and the increase in termination benefits was mainly attributable to our implementation of an early retirement program in the fourth quarter of 2020.

The 8.3% increase in depreciation and amortization expenses was principally due to one-off depreciation expenses relating to our IT system and certain facilities of our headquarters.

Comparison of 2019 to 2018

Our general and administrative expenses increased 3.9% from \display3,624 billion in 2018 to \display3,766 billion in 2019, primarily as a result of a 121.7% increase in depreciation and amortization expenses from \display217 billion in 2018 to \display481 billion in 2019, which was partially offset by a 17.6% decrease in other general and administrative expenses from \display1,085 billion in 2018 to \display894 billion in 2019.

The 121.7% increase in depreciation and amortization expenses was principally due to our adoption of IFRS 16, which resulted in an increase in lease amortization expenses that was offset in part by a decrease in rent expenses. The 17.6% decrease in other general and administrative expenses was primarily due to a 73.2% decrease in rent expenses from \(\forall \)321 billion in 2018 to \(\forall \)86 billion in 2019, which was principally due to our adoption of IFRS 16, as discussed above.

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 e	ended	,	Percentage change				
	2018	2018 2019 2020		2019/2018	2020/2019			
	(in	billion	ns of W	on)		(%)		
Other operating income	₩ 1,389	₩	775	₩	899	(44.2)%	16.0%	
Other operating expenses	(1,783)	(1	1,077)	(1,720)	(39.6)	59.7	
Total other net operating expenses	₩ (394)	₩	(303)	₩	(820)	(23.1)	170.6	

Comparison of 2020 to 2019

Our other net operating expenses increased 170.6% from \$303 billion in 2019 to \$820 billion in 2020, as a 59.7% increase in other operating expenses from \$1,077 billion in 2019 to \$1,720 billion in 2020 was partially offset by a 16.0% increase in other operating income from \$775 billion in 2019 to \$899 billion in 2020.

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 59.7% increase in other operating expenses was primarily the result of a 253.6% increase in losses on transactions of foreign exchange from \text{\text{\$\text{\$W}\$}}192 billion in 2019 to \text{\text{\$\text{\$\text{\$\text{\$W}\$}}679 billion in 2020, which was enhanced by a significant increase in losses related to derivatives designated for hedging from \text{\text{\$\text{\$\text{\$\text{\$\text{\$W}\$}}4 billion in 2019 to \text{\text{\$\

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 16.0% increase in other operating income was mainly attributable to a 25.9% increase in gains on transactions of foreign exchange from \(\forall 602\) billion in 2019 to \(\forall 758\) billion in 2020, which was offset in part by a 47.2% decrease in gains related to derivatives designated for hedging from \(\forall 127\) billion in 2019 to

W67 billion in 2020. The increase in gains on transactions of foreign exchange, which was principally due to higher exchange rate volatility in 2020 compared to 2019, was more than offset by a greater increase in losses on transactions of foreign exchange, which is recorded as part of other operating expenses as discussed above. The decrease in gains related to derivatives designated for hedging, which was primarily driven by higher volatility in the financial markets in 2020 compared to 2019, was enhanced by an increase in losses related to derivatives designated for hedging, as discussed above.

Comparison of 2019 to 2018

Our other net operating expenses decreased 23.1% from \www.394 billion in 2018 to \www.303 billion in 2019, as a 44.2% decrease in other operating income from \www.1,389 billion in 2018 to \www.775 billion in 2019 was more than offset by a 39.6% decrease in other operating expenses from \www.1,783 billion in 2018 to \www.1,077 billion in 2019.

The 44.2% decrease in other operating income was mainly attributable to a 51.0% decrease in gains on transactions of foreign exchange from \(\forall 1,228\) billion in 2018 to \(\forall 602\) billion in 2019. This decrease, which was principally due to the overall depreciation of the Won in 2019 compared to 2018, was more than offset by a greater decrease in losses on transactions of foreign exchange from \(\forall 991\) billion in 2018 to \(\forall 192\) billion in 2019, which is recorded as part of other operating expenses. On a net basis, net gains on transactions of foreign exchange increased 73.0% from \(\forall 237\) billion in 2018 to \(\forall 410\) billion in 2019.

The 39.6% decrease in other operating expenses was primarily the result of an 80.6% decrease in losses on transactions of foreign exchange from \(\foldagge 991\) billion in 2018 to \(\foldagge 192\) billion in 2019, which mainly reflected the overall depreciation of the Won in 2019 compared to 2018. This decrease was partially offset by a decrease in gains on transaction of foreign exchange, which is recorded as part of other operating income 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 Income (Expenses)

The following table shows, for the years indicated, the components of our net other non-operating income (expenses):

	Year ended December 31,			Percentage change		
	2018	2019	2020	2019/2018	2020/2019	
	(in	billions of V	(%)			
Other non-operating income	₩ 130	₩ 68	₩ 133	(47.7)%	95.6%	
Other non-operating expenses	(87)	(229)	(313)	163.2	36.7	
Total net other non-operating income (expenses)	₩ 43 ===	₩(161)	₩(180)	N/M ⁽¹⁾	11.8	

⁽¹⁾ N/M = not meaningful.

Comparison of 2020 to 2019

Our net other non-operating expenses increased 11.8% from \$161 billion in 2019 to \$180 billion in 2020, as a 36.7% increase in other non-operating expenses from \$229 billion in 2019 to \$313 billion in 2020 was partially offset by a 95.6% increase in other non-operating income from \$68 billion in 2019 to \$133 billion in 2020.

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 36.7% increase in other non-operating expenses was mainly attributable to a 92.4% increase in miscellaneous other non-operating expenses from \(\forall \)132 billion in 2019 to \(\forall \)254 billion in 2020, which was partially offset by a 67.9% decrease in impairment losses on premises, equipment, intangible

assets and other assets from \ 28 billion in 2019 to \ 9 billion in 2020 and a 28.6% decrease in donations from \ 63 billion in 2019 to \ 45 billion in 2020. The increase in miscellaneous other non-operating expenses was principally due to increases in 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—Woori Bank" and Notes 23-(5)-2) and 3) of the notes to our consolidated financial statements included elsewhere in this annual report.

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 95.6% increase in other non-operating income was primarily attributable to an 84.2% increase in miscellaneous other non-operating income from \displays 57 billion in 2019 to \displays 105 billion in 2020, which was mainly due to additional income from the liquidation of funds and bargain purchases resulting from the addition of Woori Financial Capital as a consolidated subsidiary on October 20, 2020.

Comparison of 2019 to 2018

Our net other non-operating income (expenses) changed from net income of \$\forall 43\$ billion in 2018 to net expense of \$\forall 161\$ billion in 2019, as a 163.2% increase in other non-operating expenses from \$\forall 87\$ billion in 2018 to \$\forall 229\$ billion in 2019 was enhanced by a 47.7% decrease in other non-operating income from \$\forall 130\$ billion in 2018 to \$\forall 68\$ billion in 2019.

The 163.2% increase in other non-operating expenses was mainly attributable to a significant increase in miscellaneous other non-operating expenses from \(\foathbf{W}26\) billion in 2018 to \(\foathbf{W}132\) billion in 2019, which was principally due to an increase in provisions relating to the estimated reimbursements and other payments in connection with Woori Bank's sale of derivative-linked fund and securities products tied to yields on treasury bonds of Germany, the United Kingdom and the United States. See "Item 8.A. Consolidated Statements and Other Financial Information—Legal Proceedings and Regulatory Actions—Woori Bank" and Note 23-(5)-2) of the notes to our consolidated financial statements included elsewhere in this annual report.

The 47.7% decrease in other non-operating income was primarily attributable to a 100.0% decrease in gains on disposal of investment in joint ventures and associates from \(\foat{\psi} 51\) billion in 2018 to nil in 2019, which was due to gains recognized in 2018 on the disposal of certain investments in joint ventures and associates after improvements in their financial condition, which were not repeated in 2019.

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 2020 to 2019

Our share of gain on joint ventures and associates increased 20.2% from \$84 billion 2019 to \$101 billion in 2020. Such increase was primarily due to a 21.2% increase in our gains on valuation of investments in joint ventures and associates from \$104 billion in 2019 to \$126 billion in 2020, resulting mainly from an increase in the share of profits from Well to Sea No.3 Private Equity Fund.

Comparison of 2019 to 2018

Our share of gain on joint ventures and associates significantly increased from \\$\forall 3\) billion in 2018 to \\$\forall 84\) billion 2019. Such increase was primarily due to a significant increase in our gains on valuation of investments in joint ventures and associates from \\$\forall 26\) billion in 2018 to \\$\forall 104\) billion in 2019, resulting mainly from the share of profits from Lotte Card Co., Ltd., in which we acquired a 20% equity interest in October 2019. See "Item 4.B. Business Overview—Credit Cards."

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 2020 to 2019

Income tax expense decreased 29.1% from \$685 billion in 2019 to \$486 billion in 2020, mainly as a result of a decrease in our net income before income tax expense. Our effective tax rate was 25.2% in 2019 and 24.3% in 2020.

Comparison of 2019 to 2018

Income tax expense decreased 9.0% from \$753 billion in 2018 to \$685 billion in 2019, mainly as a result of a decrease in our net income before income tax expense, as well as a negative tax adjustment recognized in 2019 in respect of prior periods compared to a positive tax adjustment recognized in 2018. Our effective tax rate was 26.9% in 2018 and 25.2% in 2019.

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

Due to the factors described above, we recorded net income of \$1,515 billion in 2020, compared to \$2,038 billion in 2019 and \$2,052 billion in 2018.

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 four operational business segments: banking, credit card, investment banking and other operations.

The following table shows, for the years indicated, our results of operations by segment:

	Net income Year ended December 31,			Total Year e	come ⁽¹⁾ ber 31,	
	2018	2019	2020	2018	2019	2020
			(in billion	s of Won)		
Banking	₩ 1,916	₩ 1,862	₩ 1,417	₩ 2,559	₩2,629	₩ 1,911
Credit card	127	114	120	172	136	165
Investment banking	33	53	63	33	56	70
Others	3	633	652	5	636	681
Total ⁽²⁾	₩2,079	₩2,663	₩2,252	₩2,770	₩3,458	₩2,827

⁽¹⁾ Comprises net interest income and net non-interest income after administrative expenses and impairment losses due to credit losses.

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

Before adjustments for consolidation, inter-segment transactions and certain differences in classification under our management reporting system.

medium-sized enterprises and individuals in Korea. The following table shows, for the years indicated, our income statement data for this segment:

	Year ended December 31,			Percenta	ge change
	2018	2019	2020	2019/2018	2020/2019
	(in	billions of Wo	on)	(9	%)
Income statement data					
Net interest income	₩ 4,454	₩ 4,583	₩ 4,545	2.9%	(0.8)%
Non-interest income	1,517	1,557	1,423	2.6	(8.6)
Reversal of (provision for) impairment losses due to					
credit loss and others ⁽¹⁾	5	(33)	(512)	N/M ⁽²⁾	N/M
General administrative expenses	(3,416)	(3,479)	(3,545)	1.8	1.9
Net operating income	2,559	2,629	1,911	2.7	(27.3)
Non-operating income (expense)	70	(151)	(57)	N/M	(62.3)
Net income before tax	2,629	2,478	1,854	(5.7)	(25.2)
Tax expense	(713)	(616)	(437)	(13.6)	(29.1)
Net income	₩ 1,916	₩ 1,862	₩ 1,417	(2.8)	(23.9)

⁽¹⁾ Consist of reversal of (provision for) impairment losses due to credit loss and others and reversal of provisions (provisions).

Comparison of 2020 to 2019

Our net income before tax for this segment decreased 25.2% from \$2,478 billion in 2019 to \$1,854 billion in 2020. Net income after tax also decreased 23.9% from \$1,862 billion in 2019 to \$1,417 billion in 2020.

Net interest income for this segment decreased 0.8% from \$4,583 billion in 2019 to \$4,545 billion in 2020, primarily reflecting the decrease in the average yield on loans, which was offset in part by the decrease in the average cost of deposits, mainly reflecting the overall decrease in the general level of interest rates in Korea in 2020 compared to 2019. The impact of such decrease was partially offset by increases in the average balances of loans and deposits, respectively, principally as a result of increased demand for such products from customers as discussed above.

Non-interest income attributable to this segment decreased 8.6% from \(\foat\)1,557 billion in 2019 to \(\foat\)1,423 billion in 2020, primarily due to a decrease in sales of financial products through bank branches as well as decreases in fees and commissions received on foreign exchange derivatives.

Impairment losses due to credit loss and others for this segment increased significantly from \(\mathbb{W} \)33 billion in 2019 to \(\mathbb{W} \)512 billion in 2020, primarily as a result of an increase in provision for loan losses in respect of Woori Bank's loan portfolio, which was mainly attributable to an expected deterioration in the overall asset quality of such loan portfolio due to the COVID-19 pandemic.

General administrative expenses attributable to this segment increased 1.9% from \(\mathbb{W}\)3,479 billion in 2019 to \(\mathbb{W}\)3,545 billion in 2020, mainly due to increases in salaries and termination benefits and depreciation expenses relating to IT systems.

Non-operating expense for this segment decreased 62.3% from \text{\text{\$\psi}151} billion in 2019 to \text{\$\psi}57 billion in 2020, primarily due to profits from the liquidation of the Well to Sea No.3 Private Equity Fund, which were partially offset by the increase in 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.

⁽²⁾ N/M = not meaningful.

Comparison of 2019 to 2018

Our net income before tax for this segment decreased 5.7% from \$2,629 billion in 2018 to \$2,478 billion in 2019. Net income after tax also decreased 2.8% from \$1,916 billion in 2018 to \$1,862 billion in 2019.

Net interest income for this segment increased 2.9% from \(\foat{\psi}\)4,454 billion in 2018 to \(\foat{\psi}\)4,583 billion in 2019, primarily due to an increase in the average balances of loans, principally as a result of increased demand for loans from customers, which was enhanced by an increase in the average yields on loans, mainly reflecting the overall increase in the general level of interest rates in Korea in 2019 compared to 2018.

Non-interest income attributable to this segment increased 2.6% from \$1,517 billion in 2018 to \$1,557 billion in 2019, primarily due to increases in fees and commissions received on foreign exchange and electronic finance, which mainly reflect the expansion of our overseas operations and online and electronic business, respectively.

Reversal of (provision for) impairment losses due to credit loss and others for this segment changed from a net reversal of \$5 billion in 2018 to a net provision of \$33 billion in 2019, primarily as a result of a decrease in reversal of provisions on guarantees attributable to significant reversals in 2018 caused by the improvement in the financial condition of certain corporate customers on behalf of which we had extended guarantees and loans, which were not repeated in 2019.

General administrative expenses attributable to this segment increased 1.8% from \(\mathbb{W}\)3,416 billion in 2018 to \(\mathbb{W}\)3,479 billion in 2019, mainly due to an increase in depreciation and amortization expenses resulting from our adoption of IFRS 16 that was offset in part by a decrease in rent expenses. See Note 2(1)-1)-a) of the notes to our consolidated financial statements included elsewhere in this annual report.

Non-operating income (expense) for this segment changed from net income of \(\mathbb{W}70\) billion in 2018 to net expense of \(\mathbb{W}151\) billion in 2019, primarily due to an increase in provisions relating to the estimated reimbursements and other payments in connection with Woori Bank's sale of derivative-linked fund and securities products tied to yields on treasury bonds of Germany, the United Kingdom and the United States. See "Item 8.A. Consolidated Statements and Other Financial Information—Legal Proceedings and Regulatory Actions—Woori Bank" and Note 23-(5)-2) of the notes to our consolidated financial statements included elsewhere in this annual report.

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		
2018	2019	2020	2019/2018	2020/2019	
(in b	oillions of W	/on)	(%	6)	
₩ 510	₩ 554	₩ 564	8.6%	1.8%	
60	32	4	(46.7)	(87.5)	
(227)	(260)	(196)	14.5	(24.6)	
(171)	(190)	(207)	11.1	8.9	
172	136	165	(20.9)	21.3	
(6)	14	(6)	$N/M^{(2)}$	N/M	
167	150	159	(10.2)	6.0	
(40)	(36)	(39)	(10.0)	8.3	
₩ 127	₩ 114	₩ 120	(10.2)	5.3	
	2018 (in the state of the stat	2018 (in billions of W) W 510 (60 32) (227) (260) (171) (190) 172 136 (6) 14 167 150 (40) (36)	2018 2019 2020 (in billions of Won) W 554 ₩ 564 60 32 4 (227) (260) (196) (171) (190) (207) 172 136 165 (6) 14 (6) 167 150 159 (40) (36) (39)	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	

⁽¹⁾ Consist of reversal of (provision for) impairment losses due to credit loss and others and reversal of provisions (provisions).

⁽²⁾ N/M = not meaningful.

Comparison of 2020 to 2019

Our net income before tax for this segment increased 6.0% from \$150 billion in 2019 to \$150 billion in 2020. Net income after tax also increased 5.3% from \$114 billion in 2019 to \$120 billion in 2020.

Net interest income for this segment increased 1.8% from \wspace{1.8\%} from \wspace{1.8\%} billion in 2019 to \wspace{1.8\%} from \wspace{1.8\%}

Non-interest income attributable to this segment decreased 87.5% from \(\foatsu202\) billion in 2019 to \(\foatsu204\) billion in 2020, mainly due to a decrease in fees and commissions received on credit cards resulting from reduced consumer spending due to the COVID-19 pandemic and an increase in commissions paid related to credit card benefits.

Impairment losses due to credit loss and others for this segment decreased 24.6% from \(\mathbb{W}\)260 billion in 2019 to \(\mathbb{W}\)196 billion in 2020, primarily as a result of a decrease in delinquency rates due to heightened credit review standards.

General administrative expenses attributable to this segment increased 8.9% from \(\mathbb{W}\)190 billion in 2019 to \(\mathbb{W}\)207 billion in 2020, mainly due to an increase in salaries paid resulting from an increase in the number of employees in this segment.

Non-operating income for this segment changed from net income of $\mathbb{W}14$ billion in 2019 to a net expense of $\mathbb{W}6$ billion in 2020, mainly as a result of a net reversal of provisions related to litigation in this segment due to judgments in our favor in 2019, which was not repeated in 2020.

Comparison of 2019 to 2018

Our net income before tax for this segment decreased 10.2% from \textbf{\psi}167 billion in 2018 to \textbf{\psi}150 billion in 2019. Net income after tax also decreased 10.2% from \textbf{\psi}127 billion in 2018 to \textbf{\psi}114 billion in 2019.

Net interest income for this segment increased 8.6% from \wxib 10 billion in 2018 to \wxib 554 billion in 2019, primarily due to an increase in the average yield on credit card receivables, including cash advances and credit card loans, which was offset in part by a decrease in the average volume of such receivables.

Non-interest income attributable to this segment decreased 46.7% from \(\foatim{\text{W}}60 \) billion in 2018 to \(\foatim{\text{W}}32 \) billion in 2019, mainly due to a decrease in fees and commissions received on credit cards resulting from a decrease in rates on credit card commissions received from merchants in accordance with Korean government policy.

Impairment losses due to credit loss and others for this segment increased 14.5% from \(\foat\)227 billion in 2018 to \(\foat\)260 billion in 2019, primarily as a result of an increase in the outstanding balance of our credit card receivables.

General administrative expenses attributable to this segment increased 11.1% from \$171 billion in 2018 to \$190 billion in 2019, mainly due to increases in salaries and benefits paid to our employees in this segment and computer and IT-related expenses.

Non-operating income (expense) for this segment changed from net expense of \(\forall \)6 billion in 2018 to net income of \(\forall \)14 billion in 2019, mainly as a result of a net reversal of provisions related to litigation in this segment due to judgments in our favor in 2019.

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 ended December 31,			Percentage change		
	2018	2019	2020	2019/2018	2020/2019	
	(in bi	llions of V	Von)	(%	6)	
Income statement data						
Net interest income	₩ 43	₩ 54	₩ 78	25.6%	44.4%	
Non-interest income	20	34	34	70.0	0.0	
Reversal of (provision for) impairment losses due to credit loss						
and others ⁽¹⁾	(4)	(1)	(4)	(75.0)	300.0	
General administrative expenses	(26)	(31)	(39)	19.2	25.8	
Net operating income	33	56	70	69.7	25.0	
Non-operating expense		(4)	(1)	$N/A^{(2)}$	(75.0)	
Net income before tax	33	52	69	57.6	32.7	
Tax income (expense)	1	1	(6)	0.0	N/M ⁽³⁾	
Net income	₩ 33	₩ 53	₩ 63	60.6	18.9	

⁽¹⁾ Consist of reversal of (provision for) impairment losses due to credit loss and others and reversal of provisions (provisions).

Comparison of 2020 to 2019

Our net income before tax for this segment increased 32.7% from \displays 52 billion in 2019 to \displays 69 billion in 2020. Net income after tax also increased 18.9% from \displays 53 billion in 2019 to \displays 63 billion in 2020.

Net interest income for this segment, which consists mainly of interest income from financing provided to corporations, increased 44.4% from \(\mathbb{W}\)54 billion in 2019 to \(\mathbb{W}\)78 billion in 2020, primarily reflecting an increase in the average balance of such financing provided to corporate customers.

Non-interest income attributable to this segment remained stable at \widetilde{W}34 billion in 2019 and 2020.

Impairment losses due to credit loss and others for this segment increased 300.0% from \text{\text{\$\psi}}1 billion in 2019 to \text{\$\psi}4 billion in 2020, primarily as a result of an expected deterioration in the overall asset quality of loans in this segment due to the COVID-19 pandemic.

General administrative expenses attributable to this segment increased 25.8% from \(\mathbb{W}\) 31 billion in 2019 to \(\mathbb{W}\) 39 billion in 2020, mainly due to an increase in salaries paid resulting from an increase in the number of employees in this segment.

Comparison of 2019 to 2018

Our net income before tax for this segment increased 57.6% from \wx33 billion in 2018 to \wx52 billion in 2019. Net income after tax also increased 60.6% from \wx33 billion in 2018 to \wx53 billion in 2019.

Net interest income for this segment increased 25.6% from \display43 billion in 2018 to \display54 billion in 2019, primarily reflecting an increase in the average balance of such financing provided to corporate customers.

Non-interest income attributable to this segment increased 70.0% from \$20 billion in 2018 to \$34 billion in 2019, primarily due to an increase in the fees received on financing provided to corporations as a result of an increase in the average balance of such financing.

⁽²⁾ N/A = not applicable.

⁽³⁾ N/M = not meaningful.

Impairment losses due to credit loss and others for this segment decreased 75.0% from \(\foatsup 4 \) billion in 2018 to \(\foatsup 1 \) billion in 2019, primarily as a result of our recovery of loans previously written off in this segment, as well as our efforts to improve the overall asset quality of our loan portfolio.

General administrative expenses attributable to this segment increased 19.2% from \(\mathbb{W}\)26 billion in 2018 to \(\mathbb{W}\)31 billion in 2019, mainly due to an increase in salary expenses as a result of an increase in the number of our employees in this segment.

Others

Other operations include the operations of Woori Financial Group and all of our subsidiaries (other than Woori Bank, Woori Card and Woori Investment Bank), including Woori Financial Capital, 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		
	2018	2019	2020	2019/2018	2020/2019	
	(in	billions of V	Von)	(%)		
Income statement data						
Net interest income	₩ 1	₩ 2	₩ 69	100.0%	N/M ⁽³⁾	
Non-interest income	297	958	1,072	222.6	11.9%	
Impairment losses due to credit loss and others ⁽¹⁾	_	(1)	(44)	N/A ⁽²⁾	N/M	
General administrative expenses	(293)	(324)	(417)	10.6	28.7	
Net operating income	5	636	681	N/M	7.1	
Non-operating income (expense)		(2)	1	N/A	N/M	
Net income before tax	6	635	682	N/M	7.4	
Tax expense	(2)	(1)	(29)	(50.0)	N/M	
Net income	₩ 3	₩ 633	₩ 652	N/M	3.0	

⁽¹⁾ Consist of reversal of (provision for) impairment losses due to credit loss and others and reversal of provisions (provisions).

Comparison of 2020 to 2019

Our net income before tax for this segment increased 7.4% from \$635 billion in 2019 to \$682 billion in 2020. Net income after tax increased 3.0% from \$633 billion in 2019 to \$652 billion in 2020.

Net interest income for this segment increased significantly from \(\mathbb{W} 2 \) billion in 2019 to \(\mathbb{W} 69 \) billion in 2020, primarily due to the additional interest income attributable to the addition of Woori Financial Capital as a consolidated subsidiary starting on October 20, 2020.

Non-interest income attributable to this segment increased 11.9% from \(\foathbf{W}\)958 billion in 2019 to \(\foatbf{W}\)1,072 billion in 2020, primarily as a result of the additional non-interest income attributable to the addition of Woori Financial Capital as a consolidated subsidiary starting on October 20, 2020.

Impairment losses due to credit loss and others for this segment increased significantly from \(\mathbb{W} \)1 billion in 2019 to \(\mathbb{W} \)44 billion in 2020, primarily as a result of an expected deterioration in the overall asset quality of the loans included in this segment due to the COVID-19 pandemic, as well as the additional impairment losses attributable to the addition of Woori Financial Capital as a consolidated subsidiary starting on October 20, 2020.

General administrative expenses attributable to this segment increased 28.7% from \$324 billion in 2019 to \$417 billion in 2020, mainly due to an increase in salaries and other employee benefits paid to our employees in this segment and an increase in termination benefits resulting mainly from our implementation of an early retirement program in the fourth quarter of 2020, as well as the additional expenses attributable to the addition of Woori Financial Capital as a consolidated subsidiary starting on October 20, 2020.

⁽²⁾ N/A = not applicable.

N/M = not meaningful.

Comparison of 2019 to 2018

Our net income before tax for this segment increased from \\ \text{\$\exitt{\$\exitt{\$\exitt{\$\exitt{\$\exitt{\$\exitt{\$\exitt{\$\exitt{\$\exitt{\$\exitt{\$\exitt{\$\exitt{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitt{\$\exitt{\$\text{\$\text{\$\text{\$\exitt{\$\text{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\}}\exitt{\$\text{\$\exitt{\$\text{\$\text{\$\text{\$\}\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\e

Net interest income for this segment increased 100.0% from \(\foatsup 1\) billion in 2018 to \(\foatsup 2\) billion in 2019, primarily due to an increase in interest income from Woori FIS, Woori Asset Management and Woori Global Asset Management, some of which were newly acquired in 2019.

Non-interest income attributable to this segment increased 222.6% from \(\foat\)297 billion in 2018 to \(\foat\)958 billion in 2019, primarily as a result of dividends from Woori Bank in 2019.

Impairment losses due to credit loss and others for this segment increased from nil in 2018 to $\mathbb{W}1$ billion in 2019, primarily as a result of provisions established in connection with deposits of the holding company.

General administrative expenses attributable to this segment increased 10.6% from \(\mathbb{W}\)293 billion in 2018 to \(\mathbb{W}\)324 billion in 2019, mainly due to an increase in employee benefit expenses as a result of our establishment as a holding company.

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		
	2018	2019	2020	2019/2018	2020/2019	
		billions of Wo		(%)		
Cash and cash equivalents	₩ 6,748	₩ 6,393		(5.3)%	56.3%	
Financial assets at fair value through profit or loss	6,126	8,069	14,763	31.7	83.0	
Financial assets at fair value through other						
comprehensive income	18,063	27,731	30,029	53.5	8.3	
Securities at amortized cost	22,933	20,321	17,021	(11.4)	(16.2)	
Loans and other financial assets at amortized cost:	282,458	293,718	320,106	4.0	9.0	
Due from banks ⁽²⁾	14,151	14,492	9,863	2.4	(31.9)	
Loans ⁽²⁾	260,820	271,032	302,794	3.9	11.7	
Loans in local currency	210,701	221,484	249,265	5.1	12.5	
Loans in foreign currencies	15,239	18,534	20,025	21.6	8.0	
Domestic banker's usance	2,934	2,900	2,241	(1.2)	(22.7)	
Credit card accounts	8,051	8,399	8,543	4.3	1.7	
Bills bought in foreign currencies	7,874	4,772	5,763	(39.4)	20.8	
Bills bought in local currency	23	61	134	165.2	119.7	
Factoring receivables	46	21	38	(54.3)	81.0	
Advances for customers on guarantees	14	13	31	(7.1)	138.5	
Privately placed bonds	366	307	354	(16.1)	15.3	
Securitized loans	1,377	2,250	2,562	63.4	13.9	
Call loans	2,669	3,290	2,352	23.3	(28.5)	
Bonds purchased under resale agreements	11,702	8,982	10,146	(23.2)	13.0	
Financial lease receivables	156	226	586	44.9	159.3	
Installment financial bonds	881	753	1,925	14.5	155.6	
Others	_	1	_	100.0	(100.0)	
Loan origination costs and fees	574	621	744	8.2	19.8	
Discounted present value	(10)	(7)	(7)	(30.0)	(0.0)	
Loss allowance	(1,778)	(1,575)	(1,909)	(11.4)	21.2	
Other financial assets (other receivables) ⁽²⁾	7,487	8,193	7,449	9.4	(9.1)	
Investments in joint ventures and associates	362	806	993	122.7	23.2	
Investment properties	378	280	387	(25.9)	38.2	
Premises and equipment	2,450	3,365	3,287	37.3	(2.3)	
Other assets ⁽³⁾	929	1,299	2,503	39.8	92.7	
Total assets	₩340,447	₩361,981	₩399,081	6.3	10.2	

 $^{^{(1)}}$ N/A = not applicable.

For further information on our assets, see "Item 4.B. Business Overview—Assets and Liabilities."

Comparison of 2020 to 2019

Our total assets increased 10.2% from \wx361,981 billion as of December 31, 2019 to \wx399,081 billion as of December 31, 2020, principally due to an 11.7% increase in loans from \wx271,032 billion as of December 31,

⁽²⁾ Net of allowance for credit losses.

⁽³⁾ 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.

2019 to \display302,794 billion as of December 31, 2020, which was enhanced by an 83.0% increase in financial assets at fair value through profit or loss from \display8,069 billion as of December 31, 2019 to \display14,763 billion as of December 31, 2020.

The increase in financial assets at fair value through profit or loss was primarily attributable to a 136.2% increase in derivatives assets from \(\pi\)2,922 billion as of December 31, 2019 to \(\pi\)6,902 billion as of December 31, 2020, which was enhanced by a 45.4% increase in securities from \(\pi\)4,907 billion as of December 31, 2019 to \(\pi\)7,136 billion as of December 31, 2020. Such increase in securities was principally due to an increase in beneficiary certificates.

Comparison of 2019 to 2018

Our total assets increased 6.3% from \display340,447 billion as of December 31, 2018 to \display361,981 billion as of December 31, 2019, principally due to a 3.9% increase in loans from \display260,820 billion as of December 31, 2018 to \display271,032 billion as of December 31, 2019, which was enhanced by a 53.5% increase in financial assets at fair value through other comprehensive income from \display18,063 billion as of December 31, 2018 to \display27,731 billion as of December 31, 2019.

The increase in loans was primarily attributable to a 5.1% increase in loans in local currency from \$\forall 210,701\$ billion as of December 31, 2018 to \$\forall 221,484\$ billion as of December 31, 2019, which was enhanced by a 21.6% increase in loans in foreign currencies from \$\forall 15,239\$ billion as of December 31, 2018 to \$\forall 18,534\$ billion as of December 31, 2019. Such increases were partially offset by a 39.4% decrease in bills bought in foreign currencies from \$\forall 7,874\$ billion as of December 31, 2018 to \$\forall 4,772\$ billion as of December 31, 2019 and a 23.2% decrease in bonds purchased under resale agreements from \$\forall 11,702\$ billion as of December 31, 2018 to \$\forall 8,982\$ billion as of December 31, 2019. The increase in financial assets at fair value through other comprehensive income was primarily attributable to a 57.9% increase in debt securities of financial institutions from \$\forall 11,253\$ billion as of December 31, 2018 to \$\forall 17,770\$ billion as of December 31, 2019, which was enhanced by a 114.7% increase in corporate debt securities from \$\forall 1,824\$ billion as of December 31, 2018 to \$\forall 3,917\$ billion as of December 31, 2019.

Liabilities and Equity

The following table sets forth, as of the dates indicated, the principal components of our liabilities and our equity:

As	s of December 3	Percentage char		
2018	2019	2020	2019/2018	2020/2019
(iı	n billions of Wo	n)	(%	6)
₩ 2,283	₩ 2,958	₩ 6,814	29.6%	130.4%
248,691	264,686	291,477	6.4	10.1
16,203	18,999	20,745	17.3	9.2
28,736	30,858	37,479	7.4	21.5
391	444	502	13.6	13.1
21,443	17,707	14,216	(17.4)	(19.7)
747	837	1,122	12.0	34.1
318,494	336,488	372,356	5.6	10.7
3,381	3,611	3,611	6.8	_
3,162	998	1,895	(68.4)	89.9
286	626	626	118.9	(0.0)
(2,214)	(2,249)	(2,347)	1.6	4.4
17,125	18,525	19,268	8.2	4.0
21,740	21,510	23,054	(1.1)	7.2
213	3,982	3,672	1769.5	(7.8)
21,953	25,492	26,725	16.1	4.8
₩340,447	₩361,981	₩399,081	6.3	10.2
	2018 (in the second content of the second c	2018 2019 (in billions of Works) ₩ 2,283 ₩ 2,958 248,691 264,686 16,203 18,999 28,736 30,858 391 444 21,443 17,707 747 837 318,494 336,488 3,381 3,611 3,162 998 286 626 (2,214) (2,249) 17,125 18,525 21,740 21,510 213 3,982 21,953 25,492	(in billions of Won) W 2,283 W 2,958 W 6,814 248,691 264,686 291,477 16,203 18,999 20,745 28,736 30,858 37,479 391 444 502 21,443 17,707 14,216 747 837 1,122 318,494 336,488 372,356 3,381 3,611 3,611 3,162 998 1,895 286 626 626 (2,214) (2,249) (2,347) 17,125 18,525 19,268 21,740 21,510 23,054 213 3,982 3,672 21,953 25,492 26,725	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

⁽¹⁾ N/A = not applicable.

For further information on our liabilities, see "Item 4.B. Business Overview—Assets and Liabilities."

Comparison of 2020 to 2019

Our total liabilities increased 10.7% from \w336,488 billion as of December 31, 2019 to \w372,356 billion as of December 31, 2020, principally as a result of a 10.1% increase in deposits due to customers from \w264,686 billion as of December 31, 2019 to \w291,477 billion as of December 31, 2020, which was enhanced by a 21.5% increase in debentures from \w30,858 billion as of December 31, 2019 to \w37,479 billion as of December 31, 2020 and a 130.4% increase in financial liabilities at fair value through profit or loss from \w2,958 billion as of December 31, 2019 to \w6,814 billion as of December 31, 2020. The increase in deposits due to customers was primarily due to an 8.2% increase in time deposits from \w224,116 billion as of December 31, 2019 to \w242,398 billion as of December 31, 2020, which was enhanced by a 43.9% increase in demand deposits from \w8,655 billion as of December 31, 2019 to \w12,454 billion as of December 31, 2020 and a 12.0% increase in deposits in foreign currencies from \w27,144 billion as of December 31, 2019 to \w30,409 billion as of December 31, 2020.

Our total equity increased 4.8% from \(\pm25,492\) billion as of December 31, 2019 to \(\pm26,725\) billion as of December 31, 2020. Such increase mainly reflected an 89.9% increase in hybrid securities from \(\pm998\) billion as

⁽²⁾ Includes net defined benefit liability, current tax liabilities, deferred tax liabilities, derivative liabilities designated for hedging and other liabilities.

⁽³⁾ Includes regulatory reserve for credit loss of \(\pi\)2,578 billion as of December 31, 2018, \(\precent{\pi}\)2,356 billion as of December 31, 2019 and \(\precent{\pi}\)2,548 billion as of December 31, 2020.

of December 31, 2019 to \(\forall 1,895\) billion as of December 31, 2020 and a 4.0% increase in retained earnings from \(\forall 18,525\) billion as of December 31, 2019 to \(\forall 19,268\) billion as of December 31, 2020. The increase in hybrid securities was due to the issuances of local currency-denominated hybrid securities in February, June and October 2020. The increase in retained earnings was attributable mainly to the net income we generated in 2020.

Comparison of 2019 to 2018

Our total liabilities increased 5.6% from \www.318,494 billion as of December 31, 2018 to \ww.336,488 billion as of December 31, 2019, principally as a result of a 6.4% increase in deposits due to customers from \ww.248,691 billion as of December 31, 2018 to \ww.264,686 billion as of December 31, 2019. The increase in deposits due to customers was primarily due to a 9.8% increase in time deposits from \ww.204,052 billion as of December 31, 2018 to \ww.224,116 billion as of December 31, 2019, which was partially offset by an 85.0% decrease in certificates of deposits from \ww.6,511 billion as of December 31, 2018 to \ww.974 billion as of December 31, 2019.

Our total equity increased 16.1% from \(\mathbb{W}\)21,953 billion as of December 31, 2018 to \(\mathbb{W}\)25,492 billion as of December 31, 2019. Such increase mainly reflected a significant increase in non-controlling interests from \(\mathbb{W}\)213 billion as of December 31, 2018 to \(\mathbb{W}\)3,982 billion as of December 31, 2019, principally due to the classification of hybrid securities (issued by Woori Bank) as non-controlling interests starting from January 11, 2019.

Liquidity

Our primary source of funding has historically been and continues to be customer deposits, particularly lower-cost retail deposits. Customer deposits amounted to \(\frac{\text{\$

We also obtain funding through borrowings and issuances of debentures to meet our liquidity needs. Borrowings represented 6.6%, 7.0% and 6.7% of our total funding as of December 31, 2018, 2019 and 2020, respectively. Debentures represented 9.6%, 9.7% and 10.6% of our total funding as of December 31, 2018, 2019 and 2020, 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, 2020:

	Payments due by period					
	Total	Less than 1 year	1-3 years	3-5 years	More than 5 years	
		(in b	illions of Won)		
Contractual obligations						
Borrowing obligations ⁽¹⁾	₩ 20,906	₩ 16,266	₩ 3,185	₩ 992	₩ 463	
Debenture obligations ⁽¹⁾	39,224	14,068	16,738	5,161	3,257	
Deposits ⁽²⁾⁽³⁾	293,391	282,367	8,115	1,116	1,793	
Lease obligations	409	173	157	44	35	
Purchase obligations	122	26	37	38	21	
Employee severance plan obligations	2,953	53	136	177	2,587	
Total	₩357,005	₩312,953	₩28,368	₩7,528	₩8,156	

⁽¹⁾ 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, 2020. In order to calculate future interest payments on debts with floating rates, we used contractual interest rates as of December 31, 2020.

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.

⁽²⁾ Comprising certificates of deposit, other time deposits and installment deposits.

⁽³⁾ Includes estimated future interest payments, which have been estimated using weighted average interest rates paid in 2020 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,			
	2018	018 2019 202		
	(on)		
Confirmed guarantees	₩ 7,108	₩ 7,689	₩ 7,275	
Guarantees for loans	126	90	103	
Acceptances	372	392	602	
Guarantees in acceptances of imported goods	158	225	78	
Other confirmed guarantees	6,453	6,983	6,492	
Unconfirmed guarantees	4,297	4,046	3,617	
Local letter of credit	305	193	187	
Letters of credit	3,323	3,081	3,026	
Other unconfirmed guarantees	670	771	404	
Commercial paper purchase commitments and others	1,261	884	917	
Loan commitments and others:				
Loans	97,797	103,652	112,089	
Others	5,041	5,994	7,828	

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, 2020, we had established provisions for possible losses of \(\forall 212\) 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, 2018, 2019 and 2020 based on IFRS and applicable regulatory reporting standards:

	As of December 31,					
	2	2018 2019		2019	2020	
	(in billions of Won, except percentage			ntages)		
Tier I capital						
Tier I common equity capital						
Capital stock	₩	3,381	₩	3,611	₩	3,611
Capital surplus		286		626		626
Retained earnings		17,125		18,525		19,268
Non-controlling interests in consolidated subsidiaries		22		20		16
Others		(3,538)		(3,647)		(3,693)
Additional Tier I capital						
Hybrid securities		3,130		998		1,895
Other equity		17		2,343		1,639
Total Tier I capital	₩	20,423	₩	22,476	₩	23,362
Tier II capital						
Allowance for credit losses(1)	₩	194	₩	1,209	₩	1,018
Subordinated debt		1,507		_		_
Others		2,127		3,431		3,068
Total Tier II capital	₩	3,828	₩	4,640	₩	4,086
Total Tier I and Tier II capital	₩	24,251	₩	27,115	₩	27,448
Risk-weighted assets						
Credit risk-weighted assets	₩1	42,626	₩2	209,803	₩1	78,115
Market risk-weighted assets		2,372		5,587		6,087
Operational risk-weighted assets		9,973		12,656		14,067
Total	₩1	54,971	₩2	228,046	₩1	98,269
Tier I common equity capital ratio		11.15%		8.39%)	10.00%
Total Tier I capital ratio		13.18		9.86		11.78
Tier II capital ratio		2.47		2.03		2.06
Total Tier I and Tier II capital ratio		15.65		11.89		13.84

⁽¹⁾ 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. Off-Balance Sheet Arrangements

See "Item 5.B. Liquidity and Capital Resources—Financial Condition—Contractual Obligations and Off-Balance Sheet Arrangements."

Item 5.F. Tabular Disclosure of Contractual Obligations

See "Item 5.B. Liquidity and Capital Resources—Financial Condition—Contractual Obligations and Off-Balance Sheet Arrangements."

Item 5.G. Safe Harbor

See "Forward-Looking Statements."

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 two standing directors, 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.

Pursuant to an agreement we entered into with the KDIC in July 2019, we are required to use our best efforts to cause an employee of the KDIC nominated by it to be appointed as our non-standing director, so long as the KDIC either (x) owns 10% or more of our issued shares with voting rights or (y) owns more than 4% but less than 10% of our total issued shares with voting rights and remains our largest shareholder (other than the National Pension Service of Korea). See "Item 10.C. Material Contracts."

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 directors are as follows:

Name	Date of Birth	Position	Director Since	Year Term Ends ⁽¹⁾
Tae-Seung Son	May 16, 1959	President and Chief Executive Officer	December 22, 2017(2)	2023
Won-Duk Lee	January 15, 1962	Director and Senior Deputy President	March 25, 2020	2022

⁽¹⁾ The date on which the term will end will be the date of the general shareholders' meeting in the relevant year.

⁽²⁾ Prior to January 11, 2019, served as a director of Woori Bank.

Tae-Seung Son is our president and chief executive officer and also served as the president and chief executive officer of Woori Bank from December 2017 to March 2020. Previously, he served as a deputy president of the global business unit of Woori Bank. Mr. Son holds a Bachelor of Laws from Sungkyunkwan University, a Master of Laws from Seoul National University and a Master of Business Administration from the Helsinki School of Economics.

Won-Duk Lee serves as our standing director and senior deputy president. Previously, he served as deputy president of our strategy planning unit and executive vice president and managing director of the management and finance planning group of Woori Bank. He holds a Bachelor of Science in Agriculture and a Master of Arts in Economics from Seoul National University.

Such directors are 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(1)
Hong-Tae Kim	February 20, 1966	Non-Standing Director	March 25, 2020	2022

⁽¹⁾ The date on which the term will end will be the date of the general shareholders' meeting in the relevant year.

Hong-Tae Kim was elected as a non-standing director in March 2020. He currently serves as Head of the Planning and Coordination Department at the KDIC. He holds a Bachelor of Arts in International Economics from Seoul National University.

Outside Directors

We currently have six outside directors. Pursuant to a commitment made by the KDIC in connection with the bidding process for the sale of a combined 29.7% ownership interest in Woori Bank in December 2016 and January 2017, five of the seven winning bidders each nominated one person to become a new outside director, and each such nominee was elected as a new outside director at an extraordinary general meeting of Woori Bank's shareholders held in December 2016. In December 2018, five persons, each nominated by one of such winning bidders, were elected at an extraordinary general meeting of Woori Bank's shareholders to serve as our outside directors upon our establishment, and in March 2021, such five persons were reappointed as our outside directors at an extraordinary general meeting of Woori Bank's shareholders. In March 2020, one person nominated by Fubon Life Insurance Co., Ltd., pursuant to a commitment made by Woori Bank in connection with its disposal of 42,103,377 shares of our common stock in September 2019, was elected at the annual general meeting of our shareholders to serve as our outside director. Three of our outside directors concurrently serve as outside directors of Woori Bank. See "Item 4.A. History and Development of the Company—Privatization Plan—Sales of the KDIC's Ownership Interest" and "Item 4.A. History and Development of the Company—Establishment of Woori Financial Group—Reorganization and Expansion of Woori Financial Group."

Our outside directors are as follows:

Name	Date of Birth	Position	Director Since	$\underline{Year\ Term\ Ends^{(1)}}$
Sung-Tae Ro	September 1946	Outside Director	December 30, 2016 ⁽²⁾	2022
Sang-Yong Park	February 1951	Outside Director	December 30, 2016(2)	2022
Chan-Hyoung Chung	February 1956	Outside Director	December 28, 2018(2)	2022
Dennis Chan	November 1962	Outside Director	March 25, 2020	2022
Zhiping Tian	February 1966	Outside Director	December 30, 2016(2)	2022
Dong-Woo Chang	January 1967	Outside Director	December 30, 2016 ⁽²⁾	2022

⁽¹⁾ The date on which the term will end will be the date of the general shareholders' meeting in the relevant year.

⁽²⁾ Prior to January 11, 2019, served as a director of Woori Bank.

Sung-Tae Ro was elected as an outside director in December 2018 and was previously and is currently an outside director of Woori Bank. He currently serves as chairman of Samsung Dream Scholarship Foundation. He holds a Bachelor of Arts in Economics from Seoul National University and a Master of Arts and a Ph.D. in Economics from Harvard University.

Sang-Yong Park was elected as an outside director in December 2018 and was previously and is currently an outside director of Woori Bank. He also currently serves as professor emeritus at the School of Business at Yonsei University. He holds a Bachelor of Arts in Business Administration from Yonsei University and a Master of Business Administration and a Ph.D. in Business Administration from New York 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.

Dennis Chan was elected as an outside director in March 2020. He previously served as vice chairman of Fubon Bank. He holds a Bachelor of Arts in Business Administration from Taipei National University and a Master of Business Administration from Georgetown University.

Zhiping Tian was elected as an outside director in December 2018 and was previously an outside director of Woori Bank. He currently serves as a vice general manager at China Fellow Partners Limited. He holds a Bachelor of Arts in Government Economics Management from Shanxi University of Finance & Economics, an International Master of Business Administration from the University of Hong Kong and a Master of Business Administration from the Southwestern University of Finance and Economics.

Dong-Woo Chang was elected as an outside director in December 2018 and was previously an outside director of Woori Bank. He is currently the chief executive officer and representative director of IMM Investment Corp. He holds a Bachelor of Laws from Hanyang University.

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. The director having an interest in the transaction may not vote at the meeting during which the board approves the transaction.

Executive Officers

In addition to the standing directors who are also our executive officers, we currently have the following 11 executive officers.

Name	Date of Birth	Position
Min-Cheol Shin	June 10, 1963	Deputy President
Dong-Su Choi	September 25, 1962	Deputy President
Jin-Ho Noh	February 2, 1964	Deputy President
Kyu-Mok Hwang	February 12, 1963	Deputy President
Seok-Tae Lee	July 13, 1964	Deputy President
Seok-Young Chung	December 21, 1964	Deputy President
Jong-il Park	September 28, 1964	Senior Managing Director
Byoung-Kwon Woo		Senior Managing Director and the
	November 28, 1964	Compliance Officer
Sung-Wook Lee	November 13, 1965	Senior Managing Director
Weon-Cheol Hwang	June 15, 1968	Senior Managing Director
Jong-Keun Lee	November 21, 1964	Managing Director

Min-Cheol Shin serves as a deputy president of the audit unit. Previously, he served as a senior advisor at PricewaterhouseCoopers Consulting, a vice minister at the Board of Audit and Inspection of Korea and the director general of the Bureau of Social and Welfare Audit at the Board of Audit and Inspection of Korea. He holds a Bachelor of Arts in political science from Seoul National University.

Dong-Su Choi serves as a deputy president of the management support unit. Previously, he served as a deputy president of the consumer protection and management support unit, a deputy president of the management support unit and a managing director of the future strategy division of Woori Bank. He holds a Bachelor of Arts in Economics from Chung-Ang University and a Master of Business Administration from Korea University.

Jin-Ho Noh serves as a deputy president of the digital and IT unit. Previously, he served as a senior managing director and managing director of the ICT planning division and representative director of Hancom Inc. He holds a Bachelor of Arts in Business Administration from Korea University and a Master of Arts in Management Science from Lancaster University.

Kyu-Mok Hwang serves as a deputy president of the brand unit and an executive vice president of the brand and ESG group of Woori Bank. Previously, he served as a senior managing director of the public relations and brand unit, a managing director and the compliance officer and a senior general manager of the future strategy division of Woori Bank. He holds a Bachelor of Arts in Public Administration from Inha University and a Master of Arts in Public Administration from Yonsei University.

Seok-Tae Lee serves as a deputy president of the business growth unit. Previously, he served as a senior managing director of the new business division, a managing director of the strategy planning division and a senior general manager of the future strategy department of Woori Bank. He holds a Bachelor of Arts in Business Administration from Chung-Ang University.

Seok-Young Chung serves as a deputy president of the risk management unit. Previously, he served as a senior managing director of the risk management unit, a managing director of the risk management unit and a senior general manager of the future strategy division of Woori Bank. He holds a Bachelor of Arts in Business Administration and a Master of Arts in Economics from Yonsei University.

Jong-il Park serves as a senior managing director of the strategy planning unit. Previously, he served as a managing director of the strategy planning division, a senior general manager of the strategy and planning department of Woori Bank and a senior general manager of the retail banking products and marketing department of Woori Bank. He holds a Bachelor of Laws from Hankuk University of Foreign Studies.

Byoung-Kwon Woo serves as a senior managing director and the compliance officer. Previously, he served as a managing director of the compliance department, a senior general manager of the management support department and a senior general manager of the future strategy division of Woori Bank. He holds a Bachelor of Arts in English Language and Literature from Sungkyunkwan University.

Sung-Wook Lee serves as a senior managing director of the finance planning unit. Previously, he served as a managing director of the finance planning division, a senior general manager of the finance and management department and a senior general manager of the future strategy division of Woori Bank. He holds a Bachelor of Arts in Business Administration from Yonsei University.

Weon-Cheol Hwang serves as a senior managing director of the digital business division and a deputy executive vice president and managing director of the digital transformation promotion division of Woori Bank. Previously, he served as a managing director and a senior general manager of the digital banking business group of Woori Bank. He holds a Bachelor of Science and a Master of Science in Mathematics from Hanyang University.

Jong-Keun Lee serves as a managing director of the management support division. Previously, he served as a senior general manager of the management support department, a senior general manager of the human resources department of Woori Bank and a senior general manager of the Jungbu regional banking headquarters of Woori Bank. He holds a Bachelor of Arts in Public Administration from Korea University and a Master of Arts in Business Administration from the University of Birmingham.

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 2020 to our directors and our other executive officers, including the compliance officer and managing directors, was \(\foathbf{W}4,683\) million, which includes \(\foatbf{W}217\) 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 \(\formalfont{\psi} 500\) million in 2020 was as follows:

Name	Position	Total Compensation in 2020 (in millions of Won)
Tae-Seung Son	President and Chief Executive Officer	$\mathbf{W}_{1,100^{(1)}}$

⁽¹⁾ Such compensation does not include a maximum 35,842 shares of our common stock that may be granted in connection with long-term performance from 2019 to 2022. 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 seven 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;
- · the Committee for Internal Control Management; 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.

Audit Committee

This committee consists of three outside directors: Sung-Tae Ro, Chan-Hyoung Chung and Dong-Woo Chang. The chairman is Chan-Hyoung Chung. 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 one non-standing director and three outside directors: Hong-Tae Kim, Sang-Yong Park, Dennis Chan and Zhiping Tian. The chairman is Sang-Yong Park. It oversees and makes determinations on all significant issues relating to our risk management system. It implements policies regarding, monitors and has ultimate responsibility for managing credit, market and liquidity risk and asset for liability management. 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 one non-standing director and all six of our outside directors: Hong-Tae Kim, Sung-Tae Ro, Sang-Yong Park, Chan-Hyoung Chung, Dennis Chan, Zhiping Tian and Dong-Woo Chang. The chairman is Chan-Hyoung Chung. 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: Dong-Woo Chang, Sung-Tae Ro, Sang-Yong Park, Chan-Hyoung Chung, Dennis Chan and Zhiping Tian. The chairman is Dong-Woo Chang. 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 and all six of our outside directors: Tae-Seung Son, Sung-Tae Ro, Sang-Yong Park, Chan-Hyoung Chung, Dennis Chan, Zhiping Tian and Dong-Woo Chang. The chairman is Tae-Seung Son. 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.

Committee for Internal Control Management

This committee consists of two standing directors, Tae-Seung Son and Won-Duk Lee, one non-standing director, Hong-Tae Kim, and one outside director, Sang-Yong Park. The chairman is Sang-Yong Park. The committee oversees the operation of our internal control management systems, including those of our subsidiaries, through the inspection and review thereof. Through such process, the committee continues to develop new standards for effective control. This committee holds regular meetings every six months.

Board ESG Management Committee

This committee consists of all nine of our directors: Tae-Seung Son, Won-Duk Lee, Hong-Tae Kim, Sung-Tae Ro, Sang-Yong Park, Chan-Hyoung Chung, Dennis Chan, Zhiping Tian and Dong-Woo Chang. The chairman is Sung-Tae Ro. 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, 2020, we had a total of 123 full-time employees at our financial holding company, excluding 20 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 December 31,		
		2018	2019	2020
Woori Financial Group	Full-time employees	_	130	143
	Contractual employees	_	36	46
Woori Bank	Full-time employees	14,011	13,911	13,715
	Contractual employees	1,178	1,239	989

At the holding company level, our employees do not currently have a labor union and none of such employees are members of an outside labor union. Woori Bank has a labor union, and approximately 68.3% of its employees as of December 31, 2020 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 our labor unions. 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 23, 2021, the persons who are currently our directors or executive officers, in the aggregate, held 263,063 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 23, 2021.

Name of Executive Officer or Director	Number of Shares of Common Stock
Tae-Seung Son	88,127
Won-Duk Lee	21,500
Sung-Tae Ro	5,000
Sang-Yong Park	1,000
Chan-Hyoung Chung	10,532
Min-Cheol Shin	17,000
Dong-Su Choi	19,738
Jin-Ho Noh	6,000
Kyu-Mok Hwang	16,239
Seok-Tae Lee	18,857
Seok-Young Chung	22,951
Jongil Park	14,619
Byoung-Kwon Woo	5,500
Sung-Wook Lee	10,000
Weon-Cheol Hwang	4,000
Jong-Keun Lee	2,000
Total	263,063

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 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 23, 2021 (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
KDIC	110,159,443	15.25	15.25
National Pension Service ⁽¹⁾	70,818,135	9.80	9.80
Nobis1, Inc. ⁽²⁾	40,560,000	5.62	5.62

⁽¹⁾ As of December 31, 2020.

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) in a private sale 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. Pursuant to a commitment made by the KDIC in connection with such bidding process, five persons, each nominated by one of the winning bidders were elected as new outside directors at an extraordinary general meeting of Woori Bank's shareholders held in December 2016. In December 2018, five persons, each nominated by one of such winning bidders, were elected at an extraordinary general meeting of Woori Bank's shareholders to serve as our outside directors upon our establishment, and in March 2021, such five persons were reappointed as our outside directors at an extraordinary general meeting of Woori Bank's shareholders. In March 2020, one person nominated by Fubon Life Insurance Co., Ltd., pursuant to a commitment made by Woori Bank in connection with its disposal of 42,103,377 shares of our common stock in September 2019, was elected at the annual general meeting of our shareholders to serve as our outside director. See "Item 6.A. Directors and Senior Management—Board of Directors—Outside Directors." 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 2.94% of its outstanding common stock). As a result of such transactions, the KDIC's ownership interest in Woori Bank was reduced to 18.43%. 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

⁽²⁾ 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.

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 2.00% of our outstanding common stock) in a block trade. As a result of such transaction, the KDIC currently owns 15.25% of our outstanding common stock.

As of April 23, 2021, our chief executive officer owned 88,127 shares of our common stock. Our executive officers (excluding our chief executive officer) collectively owned 158,404 shares of our common stock. Our outside directors collectively owned 16,532 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 23, 2021. None of our major shareholders has different voting rights from our other shareholders. However, pursuant to an agreement we entered into with the KDIC in July 2019, the KDIC has the right to require us to use our best efforts to cause an employee of the KDIC nominated by it to be appointed as our non-standing director, so long as the KDIC either (x) owns 10% or more of our total issued shares with voting rights or (y) owns more than 4% but less than 10% of our total issued shares with voting rights and remains our largest shareholder (other than the National Pension Service of Korea). See "Item 10.C. Material Contracts."

As of the close of our shareholders' register on December 31, 2020, approximately 75% of its issued shares were held in Korea by approximately 84,962 shareholders.

Item 7.B. Related Party Transactions

We regularly engage in transactions with entities affiliated with the government, which currently owns 15.25% 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, 2020, we also had loans outstanding to our executive officers and directors in the aggregate amount of \(\forall 3,888\) million.

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-180.

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 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, 2020, Woori Bank reimbursed 1,231 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 W19.7 billion and a six-month ban on sales of new private equity funds 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. Such decision was finally confirmed on September 2, 2020. 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 June 2020, the dispute settlement committee of the Financial Supervisory Service recommended the full refund of the customers' investments by the banks involved in the sale of the trade finance funds, including Woori Bank, and accordingly, we refunded an aggregate amount of \(\foldapsilon\) definition to all 288 customers that had purchased the trade finance funds from Woori Bank. In addition, as of December 31, 2020, Woori Bank reimbursed an aggregate amount of \(\psi\)119 billion to 1,088 out of the 1,302 customers with losses relating to fund products managed by Lime Asset Management Co. (other than the trade finance funds), and in February 2021, the dispute settlement committee of the Financial Supervisory Service recommended the reimbursement of 30% to 80% of such losses to the customers who purchased such products by the banks involved in the sales, including Woori Bank. While we intend to fully cooperate with any relevant investigations by government authorities, including investigations by the Seoul Southern District Prosecutors' Office and the Financial Services Commission, 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 \(\foatsup 16.5\) 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 and is currently pursuing summary judgment.

In March 2018, AJ Energy filed a lawsuit against Woori Bank and Woori America Bank in the Supreme Court of the State of New York, which was removed to the United States District Court in the Southern District of New York, seeking to recover an alleged transfer to Woori Bank from its foreign investors through an intermediary bank in the amount of EUR 8 billion. In June 2018, AJ Energy withdrew the lawsuit against Woori America Bank, and in September 2019, the district court granted Woori Bank's motion to dismiss with prejudice in its entirety and ordered AJ Energy and its counsel to pay Woori Bank's attorney's fees and costs associated

with filing the motion. In October 2019, AJ Energy filed an appeal against the district court's order to the United States Court of Appeals for the Second Circuit, and in September 2020, the appellate court affirmed the judgment of the district court. The deadline for AJ Energy to file a petition for writ of certiorari was March 1, 2021, and as AJ Energy has not filed such a petition as of April 23, 2021, the case is now deemed closed.

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. We must pay the annual dividend to the shareholders of record as of the end of the preceding fiscal year within one month after that meeting. 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. In addition, we may declare, and distribute in cash, interim dividends once a year pursuant to a board resolution.

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, 2018, 2019 and 2020. 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)
2018	650	437,626
2019	700	505,587
2020	360	260.016

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 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 722,267,681 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") 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.

Certificates evidencing shares of Korean companies must be kept in the custody of 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 must ensure that its custodian deposits its shares with the Korea Securities Depository. A foreign investor may be exempted from complying with this deposit requirement with the approval of the governor of the Financial Supervisory Service in circumstances where compliance with that requirement is made impracticable, including cases where compliance would contravene the laws of the foreign investors' home country.

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, 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 "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, 722,267,683 shares of common stock were issued and 722,267,681 shares of common stock were outstanding. Pursuant to our articles of incorporation, which became effective upon our establishment on January 11, 2019, 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 registered form. As of the date of this annual report, our authorized but unissued share capital was 3,277,732,317 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, 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. 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.

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 must pay the annual dividend to the shareholders of record as of the end of the preceding fiscal year within one month after that meeting. 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. In addition, we may declare, and distribute in cash, interim dividends once a year pursuant to a board resolution.

Under the Korean Commercial Code and our articles of incorporation, we do not have an obligation to pay any annual or interim 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. 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;
- issued to the members of our employee stock ownership association pursuant to Article 165-7 of the Financial Investment Services and Capital Markets Act;
- issued to specified foreign investors or foreign or domestic financial institutions for managerial needs, strategic technology alliances, emergency financing or debt-to-equity swaps by those financial institutions (where the number of shares so offered may not exceed 50% of our total number of issued shares); or
- issued to a depositary for the purpose of issuing depositary receipts pursuant to 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).

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 then outstanding. As of December 31, 2020, our employees owned 8.4% 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 \(\forall 2 \) 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 the event we issue new shares, the foregoing provision would be applicable notwithstanding any provision in the articles of incorporation allowing issuance of new shares to persons other than existing shareholders. 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 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 0.001% of the aggregate market value of total issued and outstanding stock of \(\forall 500\) 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 1,000 million. A major shareholder that violates these reporting requirements may suffer criminal sanctions, including fines or imprisonment.

Other Provisions

Record Date. The record date for annual dividends is December 31. For the purpose of determining the holders of shares entitled to annual dividends, the register of shareholders will be closed for the period beginning from January 1 and ending on January 31. Further, 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, in the event that the register of shareholders is closed for the period beginning from January 1 and ending on January 31 for the purpose of determining the holders of shares entitled to attend the annual general meeting of shareholders, the Korean Commercial Code waives the requirement to provide at least two weeks' public notice. The trading of shares and the delivery of certificates 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 Financial Investment Services and Capital Markets Act provides, however, that in case of a company listed on the KRX KOSPI Market such as us, share transfers can be effected by the book-entry method. 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, shareholders are required to file with us their name, address and seal. Non-resident shareholders must notify us of the name of their proxy in Korea to which notices can be sent.

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

In July 2019, in connection with the KDIC's ownership of shares of our common stock, we entered into an agreement with the KDIC, which we refer to as the KDIC Agreement. Pursuant to the KDIC Agreement, we are required to use our best efforts to cause an employee of the KDIC nominated by it to be appointed as a non-standing director of each of us and Woori Bank, so long as the KDIC either (x) owns 10% or more of our total issued shares with voting rights or (y) owns more than 4% but less than 10% of our total issued shares with voting rights and remains our largest shareholder (other than the National Pension Service of Korea). In addition, pursuant to the KDIC Agreement, we are required to use our best efforts to cause such non-standing director nominated by the KDIC to be appointed as a member of the Compensation Committee under each of the board of directors of us and Woori Bank, so long as the KDIC owns 10% or more of our total issued shares with voting rights. Furthermore, so long as the KDIC owns 4% or more of our total issued shares with voting rights, the KDIC Agreement requires us to provide certain information in advance to the KDIC, including the agenda and minutes for meetings of our board of directors, information regarding our retained earnings available for distribution of dividends, and information regarding matters that could have a material effect on the KDIC's remaining share ownership interest in us, such as capital increases or decreases, changes in our corporate governance, changes in the lines of business of our subsidiaries and material dispositions or acquisitions of assets. The KDIC Agreement provides that it will automatically terminate if the KDIC ceases to own 4% or more of our total issued shares with voting rights.

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 tax purposes. This summary does not apply to you if you are a member of a class of holders subject to special rules, such as:

- a 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;
- a tax-exempt organization;
- 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 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.

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 dividends that you receive (prior to deduction of Korean 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; and (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. 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 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 2019 and 2020 taxable years. In addition, based on our current expectations regarding our income, assets and activities, we do not anticipate becoming a PFIC for our 2021 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 in the first sentence of this paragraph, 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

You should consult your own tax advisers to determine whether you are subject to any special rules that limit your ability to make effective use of foreign tax credits. If no such rules apply, you may claim a credit against your U.S. federal income tax liability for Korean taxes withheld from dividends on the common shares or ADSs at the rate provided for under the income tax treaty between the United States and Korea, so long as you have owned the common shares or ADSs (and not entered into specified kinds of hedging transactions) for at least a 16-day period that includes the ex-dividend date. Instead of claiming a credit, you may, if you so elect, deduct such Korean taxes in computing your taxable income, subject to generally applicable limitations under U.S. tax law. Korean taxes withheld from a distribution of additional shares that is not subject to U.S. tax may be treated for U.S. federal income tax purposes as imposed on "foreign branch" category income. Such treatment could affect your ability to utilize any available foreign tax credit in respect of such taxes.

Any Korean securities transaction tax or agriculture and fishery special surtax that you pay will not be creditable for foreign tax credit purposes.

Similarly, a U.S. holder will not be able to claim a foreign tax credit against its U.S. federal income tax liability for any Korean inheritance or gift tax imposed in respect of the common shares or ADSs.

Foreign tax credits will not be allowed for withholding taxes imposed in respect of certain short-term or hedged positions in securities and may not be allowed in respect of arrangements in which a U.S. holder's expected economic profit is insubstantial.

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 (i) is a corporation or other exempt recipient and demonstrates this when required or (ii) provides a taxpayer identification number and certifies that no loss of exemption from backup withholding has occurred. Holders that are not U.S. persons generally are not subject to information reporting or backup withholding. However, such a holder may be required to provide a certification of its non-U.S. status in connection with payments received within the United States or through a U.S.-related financial intermediary.

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.

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 surtax). 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 surtax) 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 surtax) 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 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 gain from the sales price in an amount equal to the lower of (1) 11.0% (inclusive of local income surtax) 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 surtax) 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 surtax) 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. 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 0.08% (if the transfer is made in 2021 or 2022) 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 0.43% (if the transfer is made in 2021 or 2022) 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 transfer 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% 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 http://www.sec.gov.

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. We have further strengthened our 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 a standardized method and the VaR method and stress testing for Woori Bank;
- 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 2021 is as follows:

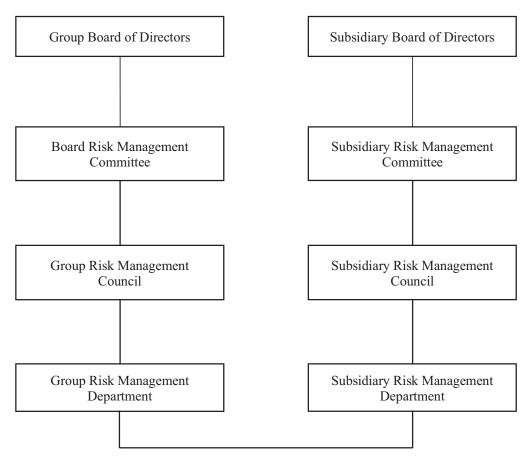
	Available capital ⁽¹⁾	Risk capital	Risk appetite	Credit	Market	Operational	Interest rate
		(ir	billions of	Won, exce	pt percenta	ages)	
Woori Financial Group	23,342	16,902	72.4%	14,253	1,435	1,442	1,159
Woori Bank	21,947	15,240	69.4%	12,812	1,400	1,300	985
Woori Card	1,954	1,173	60.0%	1,009	0	105	155
Woori Investment Bank	489	422	86.3%	387	24	16	12
Woori Private Equity	34	19	54.3%	18	0	1	0
Woori Asset Management	111	24	21.5%	10	8	5	5
Woori Global Asset Management	25	6	24.5%	2	3	2	1
Woori Asset Trust	121	24	20.0%	15	0	14	1

⁽¹⁾ 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 Departments. Each 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 implements policies regarding, monitors and has ultimate responsibility for managing credit, market and liquidity risk and for asset and liability 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 one non-standing director and 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, balanced and 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 Credit Guarantee Fund 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 easily 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 department, head of the investment banking group, head of the corporate banking business group, head of the capital market group, head of the large corporate audit department and head of medium-size enterprise audit department (no more than seven persons)	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 Individual Individual	Approval of the individual Approval of the 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 Audits 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 \(\mathbf{W}\)1 billion. In general, each model uses scores from both a computerized evaluation of quantitative financial factors, such as cash flow and income, 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 more 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 automatically reviewed by the Loan Committee.

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 \(\forall 1\) 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 score ranging from one to ten to each application based on its evaluation of various factors. Applications are classified as either approved or rejected, 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.

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, such as the Korea Federation of Banks, Korea Information Service, Korean government-released information on bankruptcy rates, National Information & Credit Evaluation Inc. and Korea Management Consulting & Credit Rating Corporation. 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 scoring system 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.

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 not previously evaluated, including 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 Korea Investors Service 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 \(\formaller{W}\)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 \(\mathbf{W}\)5 billion, any consumer loan over \(\mathbf{W}\)1 billion, any loan to a housing applicant group over \(\mathbf{W}\)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\(^3\)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 \(\mathbf{W}\)50 million or aggregate secured loans over \(\mathbf{W}\)300 million, and new consumer and corporate loans (including credit limit increases) over US\(^3\)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 assets, 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 December 31, 2018, 2019 and 2020:

	As of December 31,				
	2018	2020			
		on)			
Debt securities	₩1,687,869	₩1,284,003	₩ 1,299,687		
Equity securities	218,574	243,629	53,086		
Spot exchanges ⁽¹⁾	1,173,041	1,301,228	1,434,417		
Derivatives ⁽²⁾	4,606,411	6,299,833	14,141,105		
Total	₩7,685,895	₩9,128,693	₩16,928,295		

⁽¹⁾ 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

⁽²⁾ 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.

December 31, 2020, we have established market risk limits with respect to Woori Bank as shown in the following table:

	Trading Portfolio					
VaR Limit	VaR Limit Quarter Annual					
	(in billion	of Won)				
₩ 17.6	₩ 95.9	₩ 191.8	₩ 5.9			

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.

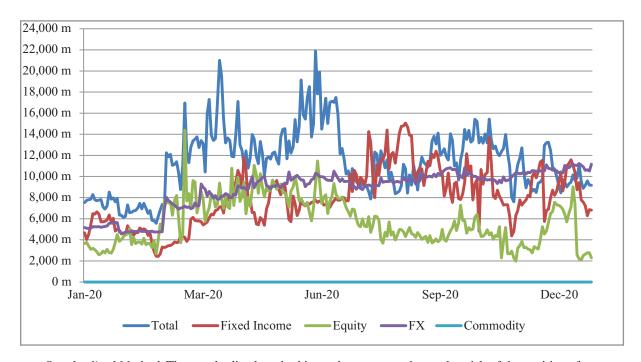
The following table shows Woori Bank's daily VaR as of December 31, 2018, 2019 and 2020 at a 99% confidence level for a one-day holding period, for interest rate risk, equity risk, foreign exchange risk and commodity risk relating to its trading activities.

	Interest Rate Risk	Foreign Exchange Risk	Equity Risk	Commodity Risk	Less: Diversification	VaR for Overall Trading Activities
			(in	millions of Wo	n)	
As of December 31, 2018	₩3,107	₩ 4,972	₩2,353	₩0	₩ 4,445	₩ 5,987
As of December 31, 2019	5,052	5,028	3,730	0	6,233	7,577
As of December 31, 2020	6,815	11,160	2,283	0	11,087	9,171

In 2018, 2019 and 2020, 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, 2018			As of December 31.		the year e ember 31,	2010	As of December 31.	Doo	the year en ember 31, 2	
	2018	Average	Maximum	Minimum	2019	Average	Maximum	Minimum	2020	Average	Maximum	Minimum
Interest risk	₩ 3,107	₩ 3,702	₩ 5,528	₩ 1,730	₩ 5,052	₩ 3,406	₩ 5,725	₩ 1,176	₩ 6,815	₩ 7,959	₩ 15,065	₩ 2,427
Foreign												
exchange												
risk	4,972	4,678	6,136	3,439	5,028	5,033	6,469	4,395	11,160	8,814	11,233	4,613
Equity risk	2,353	2,669	5,081	1,138	3,730	3,203	5,935	1,146	2,283	5,783	14,394	1,982
Commodity												
risk	0	3	24	0	0	1	32	0	0	0	0	0
Diversification .	(4,445)	(4,869)	(8,155)	(1,815)	(6,233)	(5,127)	(9,229)	(2,339)	(11,087)	(11,175)	(18,796)	(3,452)
Total risk	₩ 5,987	₩ 6,183	₩ 8,614	₩ 4,492	₩ 7,577	₩ 6,516	₩ 8,932	₩ 4,378	₩ 9,171	₩ 11,381	₩ 21,896	₩ 5,570

The graph of Woori Bank's daily 99% VaR relating to its trading activities in 2020 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 December 31, 2018, 2019 and 2020:

	As of December 31,			
	2018	2019	2020	
	(in	millions of W	on)	
Risk categories				
Interest risk	₩ 9,034	₩11,671	₩ 7,775	
Equity risk	7,522	8,188	7,345	
Foreign exchanges risk	25,330	32,707	37,026	
Commodity risk	0	0	0	
Total	₩41,886	₩52,566	₩52,146	

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 2018, 2019 and 2020 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, 2020 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% ₩0.7 ₩(43.9) ₩(6.5) $\mathbf{W}(2.1)$ ₩(4.7) ₩(5.0) (in billions of Won, except basis points) 40 basis Interest Rate Chart Basis point fluctuation (60) basis (40) basis (20) basis 20 basis 60 basis amount points points points points points points ₩0.4 ₩0.3 ₩0.1 $\mathbf{W}(0.1)$ $\mathbf{W}(0.3)$ $\mathbf{W}(0.4)$

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, 2020:

	Won/U.S. Dollar Dealing			es			
	Headqu	arters	Headq	uarters	Overseas Branches		
	Total Individual		Total	Total Individual		Individual	
			(in millio	ns 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 December 31, 2018, 2019 and 2020. Positive amounts represent long exposures and negative amounts represent short exposures.

	As of December 31,				
	2018	2019	2020		
	(iı	millions of US	\$)		
Currency					
U.S. dollar	US\$ 153.8	US\$ 171.1	US\$(307.4)		
Japanese yen	(4.5)	(38.7)	(80.1)		
Euro	(399.1)	(400.8)	(642.3)		
Others	146.0	182.3	303.7		
Total	<u>US\$(103.8)</u>	<u>US\$ (86.1)</u>	<u>US\$(726.1</u>)		

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 ΔEVE (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 49.9% of our total deposits in Won as of December 31, 2020). We generally adjust the interest rates on these deposits when they are rolled over. In addition, as of December 31, 2020, 97.8% of those deposits had current maturities of one year or less. As of December 31, 2020, approximately 64.3% of our Won-denominated loans bore floating rates of interest, and 62.3% 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 Δ 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, 2020:

Part						As	of Decem	As of December 31, 2020						
Non-denominated accounts		0-3	Months	3-6							r 3 Years		Total	
Tree interest rate W 16,222 W 16,206 W 13,029 W 18,336 W 21,794 W 85,587 Market interest rate 222,727 35,816 13,029 24,720 14,006 210,478 11,000 210,478 11,0					(in	billions	of Won,	except	percenta	ges)				
Free interest rate № 16,222 № 16,202 № 13,029 № 18,336 № 21,794 № 85,587 Market interest rate 122,727 35,816 13,029 24,720 14,006 210,478 Interest rate pegged to customer deposit 106 82 133 39 13 373 Total № 139,055 № 5,104 № 26,371 № 33,905 № 35,813 № 29,043 № 29,043 № 20,038 № 20,039 № 20,03														
Market interest rate 122,727 35,816 13,029 24,720 14,006 210,478 Interest rate pegged to customer deposit 106 82 133 39 13 373 Total № 139,055 № 5,104 № 26,371 № 43,095 № 35,813 № 296,438 Interest rate-sensitive liabilities Free interest rate № 31,308 № 5,007 № 9,178 № 28,085 № 29,092 № 102,670 Market interest rate № 31,308 № 30,900 51,418 12,322 3,402 173,142 Total № 106,408 № 35,907 № 60,596 № 40,407 № 32,494 № 275,812 Sensitivity gap 32,647 16,197 (34,225) 2,688 3,319 20,626 Cumulative gap 32,647 16,197 (34,225) 2,688 3,319 20,626 Cumulative gap 32,647 16,197 (34,225) 2,588 3,319 20,626 Cumulative gap 32,647 18,291 48,844 14,619			16000		16.206		12.020		10.226		21 501		0.5.505	
Total Property			,	₩		₩				₩		₩		
customer deposit 106 82 133 39 13 373 Total № 139,055 № 25,104 № 26,371 № 43,095 № 35,813 № 296,438 Interest rate-sensitive liabilities Serie interest rate № 31,308 № 5,007 № 9,178 № 28,085 № 29,092 № 102,670 Market interest rate 75,100 30,900 51,418 12,322 3,402 173,142 Total № 106,408 № 35,907 № 60,596 № 40,407 № 32,494 № 275,812 Sensitivity gap 32,647 16,197 (34,225) 2,688 3,319 20,626 Cumulative gap 32,647 16,197 15,21 4,55 5,39 6,42 6,42 Worl 10,17 15,21 4,55 5,39 6,42 6,42 Total assets in Won 10 10,107 15,21 4,55 15,39 0ex 3 Years Total Interest rate sensitive interest rate 16,290 1,953 0 18 0 18			122,727		35,816		13,029		24,720		14,006		210,478	
Total	1 00		106		0.2		122		20		10		272	
Interest rate-sensitive Iiabilities Free interest rate W 31,308 W 5,007 W 9,178 W 28,085 W 29,092 W 102,670 Market interest rate 75,100 30,900 51,418 12,322 3,402 173,142 173,142 Market interest rate 25,647 48,844 14,619 17,307 20,626 20,626 W 32,494 20,626 20,626 M 40,407 M 32,494 M 275,812	customer deposit										13		3/3	
Free interest rate W 31,308 W 5,007 W 9,178 W 28,085 W 29,092 W 102,670 Market interest rate 75,100 30,900 51,418 12,322 3,402 173,142	Total	₩	139,055	₩	52,104	₩	26,371	₩	43,095	₩	35,813	₩	296,438	
Market interest rate 75,100 30,900 51,418 12,322 3,402 173,142 Total № 106,408 № 35,907 № 60,596 № 40,407 № 32,494 № 275,812 Sensitivity gap 32,647 16,197 (34,225) 2,688 3,319 20,626 Cumulative gap 32,647 48,844 14,619 17,307 20,626 20,626 % of total assets in Won 70,117 15,21 4.55 5.39 6.42 6.42 Total assets in Won 70,107 15,21 1.52														
Total W 106,408 W 35,907 W 60,596 W 40,407 W 32,494 C 20,626 C 20	Free interest rate	₩	31,308	₩	5,007	₩	9,178	₩	28,085	₩	29,092	₩	102,670	
Sensitivity gap	Market interest rate		75,100		30,900		51,418		12,322		3,402		173,142	
Cumulative gap 32,647 48,844 14,619 17,307 20,626 20,626 % of total assets in Won Total assets in Ww 321,083 Total assets in Won Total assets in Ww 321,083 Ww	Total	₩	106,408	₩	35,907	₩	60,596	₩	40,407	₩	32,494	₩	275,812	
Note 10.17 15.21 15.21 15.25 15.39 16.42 16.4	Sensitivity gap		32,647		16,197	((34,225)		2,688		3,319		20,626	
Total assets in Won Won Property Won Won Property Won Won Property Won	Cumulative gap		32,647		48,844		14,619		17,307		20,626		20,626	
Note	% of total assets ⁽¹⁾		10.17		15.21		4.55		5.39		6.42		6.42	
Precince	Total assets in													
Paris Pari	Won											₩	321,083	
Paris Pari						A.c	of Dogom	hon 21	2020					
Foreign currency- denominated accounts: Interest rate-sensitive assets Free interest rate . US\$ 0 Market interest rate . 16,290 1,953 799 696 885 20,622 Interest rate pegged to customer deposit . 0 0 0 0 0 0 0 0 0 Total . US\$ 16,290 US\$ 1,953 US\$ 799 US\$ 696 US\$ 885 US\$ 20,622 Interest rate-sensitive liabilities Free interest rate . US\$ 0 US\$ 0 US\$ 0 US\$ 0 US\$ 885 US\$ 20,622 Interest rate-sensitive liabilities Free interest rate . US\$ 0 US\$ 0 US\$ 0 US\$ 0 US\$ 3 US\$ 3 Market interest rate . US\$ 0 US\$ 0 US\$ 0 US\$ 0 US\$ 2,263 1,375 2,317 15,110 Total . US\$ 6,988 US\$ 2,167 2,263 1,375 US\$ 2,320 US\$ 15,113 Sensitivity gap . 9,302 (214) (1,464) (680) (1,435) 5,510 Cumulative gap . 9,302 9,088 7,624 6,944 5,510 5,510 % of total assets(1) 28,97% 28,30% 23,75% 21,63% 17,16% 17,16% Total assets in		0-3	Months	3-6	Months					Ove	r 3 Vears		Total	
Foreign currency-denominated accounts: Interest rate-sensitive assets US\$ 0 US			TITOTICIIS								- Tears			
Comparison of					(111	шшиоп		CALCHI		ges)				
Free interest rate . US\$ 0 US\$	Foreign currency-				(III)	million	3 01 Cοφ, (схсері	percenta	ges)				
Market interest rate 16,290 1,953 799 696 885 20,622 Interest rate pegged to customer deposit 0	•				(III	miiion	3 01 CSψ, (ехсері	percenta	ges)				
Interest rate pegged to customer deposit	denominated accounts:				(III)	million	S 01 CS4,	ехсері	percenta	ges)				
customer deposit 0	denominated accounts: Interest rate-sensitive assets	US\$	0	US\$							\$ 0	USS	S 0	
Total US\$ 16,290 US\$ 1,953 US\$ 799 US\$ 696 US\$ 885 US\$ 20,622 Interest rate-sensitive liabilities Free interest rate US\$ 0 US\$ 0 US\$ 0 US\$ 0 US\$ 3 US\$ 3 Market interest rate 6,988 2,167 2,263 1,375 2,317 15,110 Total US\$ 6,988 US\$ 2,167 US\$ 2,263 US\$ 1,375 US\$ 2,320 US\$ 15,113 Sensitivity gap 9,302 (214) (1,464) (680) (1,435) 5,510 Cumulative gap 9,302 9,088 7,624 6,944 5,510 5,510 % of total assets(1) 28.97% 28.30% 23.75% 21.63% 17.16% 17.16% Total assets in 10.00 10.00 10.00 10.00 17.16% 17.16%	denominated accounts: Interest rate-sensitive assets Free interest rate	US\$		US\$	5 0		0		0			USS		
Interest rate-sensitive Iiabilities Free interest rate US\$ 0 US\$ 0 US\$ 0 US\$ 0 US\$ 3 US\$ 1,375 2,317 15,110 US\$ 2,263 US\$ 1,375 US\$ 2,320 US\$ 15,113 US\$ 2,263 US\$ 1,375 US\$ 2,320 US\$ 15,113 US\$ 2,320 US\$ 15,113 US\$ 2,263 US\$ 2,320 US\$ 1,375 US\$ 2,320 US\$	denominated accounts: Interest rate-sensitive assets Free interest rate	US\$		US\$	5 0		0		0			USS		
liabilities Free interest rate US\$ 0 US\$ 0 US\$ 0 US\$ 0 US\$ 3 US\$ 3 Market interest rate 6,988 2,167 2,263 1,375 2,317 15,110 Total US\$ 6,988 US\$ 2,167 US\$ 2,263 US\$ 1,375 US\$ 2,320 US\$ 15,113 Sensitivity gap 9,302 (214) (1,464) (680) (1,435) 5,510 Cumulative gap 9,302 9,088 7,624 6,944 5,510 5,510 % of total assets(1) 28.97% 28.30% 23.75% 21.63% 17.16% 17.16% 17.16% Total assets in	denominated accounts: Interest rate-sensitive assets Free interest rate	US\$	16,290	US\$	6 0 1,953		0 799		0 696		885	USS	20,622	
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% of total assets ⁽¹⁾	denominated accounts: Interest rate-sensitive assets Free interest rate Market interest rate Interest rate pegged to customer deposit Total Interest rate-sensitive liabilities Free interest rate Market interest rate Total	US\$	16,290 0 6 16,290 6 6,988 6 6,988	USS	6 0 1,953 0 6 1,953 6 0 2,167 6 2,167	US\$ US\$ US\$	0 799 0 799 0 2,263 2,263	US\$ US\$ US\$	0 696 0 696 0 1,375 1,375	USS USS	885 0 885 885 3 2,317 2,320	USS USS	20,622 0 6 20,622 6 3 15,110 6 15,113	
Total assets in	denominated accounts: Interest rate-sensitive assets Free interest rate Market interest rate Interest rate pegged to customer deposit Total Interest rate-sensitive liabilities Free interest rate Market interest rate Total Sensitivity gap	US\$	16,290 0 6 16,290 6 6,988 6 6,988 9,302	USS	0 1,953 0 6 1,953 6 0 2,167 6 2,167 (214)	US\$ US\$ US\$	0 799 0 799 0 2,263 2,263 (1,464)	US\$ US\$ US\$	0 696 0 696 0 1,375 1,375 (680)	USS USS	885 0 885 885 3 2,317 2,320 (1,435)	USS USS	20,622 0 5 20,622 3 15,110 6 15,113 5,510	
	denominated accounts: Interest rate-sensitive assets Free interest rate Market interest rate Interest rate pegged to customer deposit Total Interest rate-sensitive liabilities Free interest rate Market interest rate Total Sensitivity gap Cumulative gap	US\$	16,290 0 16,290 6,988 6,988 9,302 9,302	US\$ US\$	0 1,953 0 6 1,953 6 0 2,167 6 2,167 (214) 9,088	US\$ US\$ US\$	0 799 0 799 0 2,263 2,263 (1,464) 7,624	US\$ US\$ US\$	0 696 0 696 1,375 1,375 (680) 6,944	USS USS USS	885 0 885 885 3 2,317 2,320 (1,435) 5,510	USS USS	20,622 0 6 20,622 6 3 15,110 6 15,113 5,510 5,510	
US\$	denominated accounts: Interest rate-sensitive assets Free interest rate Market interest rate Interest rate pegged to customer deposit Total Interest rate-sensitive liabilities Free interest rate	US\$	16,290 0 16,290 6,988 6,988 9,302 9,302	US\$ US\$	0 1,953 0 6 1,953 6 0 2,167 6 2,167 (214) 9,088	US\$ US\$ US\$	0 799 0 799 0 2,263 2,263 (1,464) 7,624	US\$ US\$ US\$	0 696 0 696 1,375 1,375 (680) 6,944	USS USS USS	885 0 885 885 3 2,317 2,320 (1,435) 5,510	USS USS	20,622 0 6 20,622 6 3 15,110 6 15,113 5,510 5,510	

⁽¹⁾ 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, 2018	0.77	0.80	0.03	83
December 31, 2018	0.84	0.80	0.10	276
June 30, 2019	0.90	0.81	0.15	415
December 31, 2019	0.94	0.88	0.14	392
June 30, 2020	1.02	0.92	0.18	507
December 31, 2020	0.94	0.93	0.07	213

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 ΔEVE with respect to its Won-denominated assets and liabilities for each of the quarters since the fourth quarter of 2019:

	Fourth Quarter 2019	First Quarter 2020	Second Quarter 2020	Third Quarter 2020	Fourth Quarter 2020
	(in bil	lions of Won, excep	ot percentages)		
Interest rate $\Delta EVE \dots$	₩386.4	₩282.9	₩ 246.0	₩195.8	₩136.5

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%;
- maintain a foreign currency liquidity coverage ratio of not less than 80%; 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%. Although these temporary deregulation measures were originally scheduled to end in September 2020, the Financial Services Commission extended them until the end of September 2021, which may be subject to change.

As of December 31, 2020, Woori Bank's 30-day liquidity coverage ratio was 91.41%, above the Financial Services Commission's standard of 85%.

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, 2020 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\$)		
Foreign currency accounts:			
Foreign currency assets	US\$ 18,457	US\$ 13,375	US\$ 17,452
Foreign currency liabilities	16,149	13,693	18,326
Maturity gap	2,308	(318)	(874)
Cumulative gap (A)	2,308	1,990	1,116
Total assets (B)	145,838	145,838	145,838
Liquidity gap ratio (A/B)	1.58%	1.36%	$102.32\%^{(1)}$
Limits	(3)%	% (10)%	85%

⁽¹⁾ 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 2020, pursuant to an agreement with us, the depositary waived, or made payments to third parties of, approximately \$11,909 (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, 2020. 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, 2020 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, 2020 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, 2020, our internal control over financial reporting is effective.

Our management has excluded Woori Financial Capital (including its then wholly-owned subsidiary Woori Savings Bank) from our assessment of internal control over financial reporting as of December 31, 2020 in accordance with the SEC's general guidance that an assessment of a recently-acquired business may be omitted from our scope of assessment in the year of acquisition. On December 10, 2020, we acquired a 74.0% equity interest in Woori Financial Capital from Well to Sea Investment. Notwithstanding the foregoing, Woori Financial Capital became our consolidated subsidiary on October 20, 2020 for accounting purposes. For further information regarding the accounting treatment of the acquisition of Woori Financial Capital, see Note 43.1 of the notes to our consolidated financial statements included elsewhere in this annual report. As of December 31, 2020, Woori Financial Capital accounted for approximately 2.2% of our consolidated total assets, and its net loss before income tax for the period subsequent to its consolidation on October 20, 2020 amounted to \text{\text{\$\text{\$W}\$18 billion, compared to our consolidated net profit before income tax of \text{\$\text{\$\text{\$\text{\$\text{\$W}\$2,001 billion.}}}

The effectiveness of our internal control over financial reporting as of December 31, 2020 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, 2020.

Changes in Internal Control Over Financial Reporting

As a result of our acquisition of Woori Financial Capital as described above, we are evaluating and implementing changes to processes, policies and other components of our internal control over financial reporting as part of our ongoing integration activities. Our management continues to be engaged in efforts to evaluate the effectiveness of our internal control procedures and the design of those control procedures in connection with the acquisition of Woori Financial Capital, with a plan to report its evaluation of the internal control over the financial reporting of Woori Financial Capital at December 31, 2021. Except for the foregoing, there has been no change in our internal control over financial reporting during 2020 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 https://www.woorifg.com. 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 former independent registered public accountants, Deloitte Anjin LLC, the member firms of Deloitte Touche Tohmatsu Limited, and their respective affiliates

(which we refer to collectively as Deloitte), for the fiscal year ended December 31, 2019 and our current independent registered public accountants, Samil PricewaterhouseCoopers, and other firms in the PricewaterhouseCoopers network (which we refer to collectively as PwC), for the fiscal year ended December 31, 2020:

	Year ended December 31,	
	2019	2020
	(in millions of Won)	
Audit fees	₩6,115	₩7,445
Audit-related fees	228	50
Tax fees	341	237
All other fees	125	1,701
Total fees	₩6,809	₩9,433

Audit fees in the above table are the aggregate fees billed or expected to be billed by Deloitte and 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 Deloitte and 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 Deloitte and 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 Deloitte and 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 disclosure called for by paragraph (a) of this Item 16F was previously reported, as that term is defined in Rule 12b-2 under the Exchange Act, in our Annual Report on Form 20-F (File No. 001-31811), filed on April 29, 2020.

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.

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.

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 nine 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 three 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 one non-standing director and six outside directors.

We have established an Audit Committee consisting of three 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.

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.

Corporate Governance Guidelines

Listed companies must adopt and disclose corporate governance guidelines.

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.

Item 16H. MINE SAFETY DISCLOSURE

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. (successor issuer of Woori	
Bank) 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, 2019 and 2020	F-5
Consolidated Statements of Comprehensive Income for the Years Ended December 31, 2018, 2019	
and 2020	F-6
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2018, 2019 and	
2020	F-8
Consolidated Statements of Cash Flows for the Years Ended December 31, 2018, 2019 and 2020	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

Our Audit Committee has three members, as described above.

We currently have one equity compensation plan, providing for the grant of stock options to officers and directors.

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.

We have adopted corporate governance standards, the Korean-language version of which is available on our website.

We have adopted a Code of Ethics and Business Conduct for Employees, the Korean-language version of which is available on our website.

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 ₩5,000 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.
4.1****	Agreement between the Korea Deposit Insurance Corporation and Woori Financial Group (translation in English).
8.1*****	List of subsidiaries of Woori Bank.
11.1	Code of Ethics (translation in English).
12.1	Section 302 certifications.
13.1	Section 906 certifications.
101.INS	XBRL Instance Document
101.SCH	XBRL Taxonomy Extension Schema Document
101.CAL	XBRL Taxonomy Extension Calculation Linkbase Document
101.DEF	XBRL Taxonomy Extension Definition Linkbase Document
101.LAB	XBRL Taxonomy Extension Label Linkbase Document
101.PRE	XBRL Taxonomy Extension Presentation Linkbase Document
	porated by reference to exhibit 2.1 to the Annual Report on Form 20-F (File No. 001-31811), filed on April 30, 2019. porated by reference to exhibit (a)(1) to the Registration Statement on Form F-6 (File No. 333-229197), filed on January 11,

^{***} See Item 10.B. Memorandum and Articles of Association.

Incorporated by reference to exhibit 2.4 to the Annual Report on Form 20-F (File No. 001-31811), filed on April 29, 2020.

Incorporated by reference to exhibit 4.1 to the Annual Report on Form 20-F (File No. 001-31811), filed on April 29, 2020.

^{*****} See Note 1 of the notes to the consolidated financial statements of the registrant included in this Annual Report.

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/ Tae-Seung Son
(Signature)

Tae-Seung Son Chief Executive Officer (Name/Title)

Date: April 30, 2021

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 statement of financial position of Woori Financial Group Inc. and its subsidiaries (the "Company") as of December 31, 2020, and the related consolidated statements of comprehensive income, of changes in equity and of cash flows for the year then ended, 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, 2020, 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, 2020, and the results of its operations and its cash flows for the year then ended 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, 2020, 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 audit. 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 audit in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit 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 audit 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 audit 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 audit also included performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinions.

As described in Management's Annual Report on Internal Control Over Financial Reporting, management has excluded Woori Financial Capital Co., Ltd. (including its then wholly-owned subsidiary Woori Savings Bank), from its assessment of internal control over financial reporting as of December 31, 2020 because it was

acquired by the Company in a purchase business combination during 2020. We have also excluded Woori Financial Capital Co., Ltd. and Woori Savings Bank, from our audit of internal control over financial reporting. As of December 31, 2020, Woori Financial Capital and its subsidiaries including Woori Savings Bank accounted for approximately 2.2% of our consolidated total assets, and its net loss before income tax for the period subsequent to its consolidation on October 20, 2020 amounted to \text{\$\frac{1}{2}\$} 18 billion, compared to our consolidated net profit before income tax of \text{\$\frac{1}{2}\$},201 billion.

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 Notes 4 and 10 to the consolidated financial statements, loans measured at amortized cost subject to individual or collective assessments were \(\foathbf{W}\)304,702,706 million, with allowances for credit losses of \(\foatbf{V}\)1,908,524 million as of December 31, 2020. Allowances for credit losses for individually assessed loans are determined by the estimation of the expected future cash flows. For collectively assessed loans, allowances are determined based on assumptions and variables in the models used for estimating expected credit loss. Significant judgment is applied in management's estimation including updating forward-looking information used for expected credit losses and determining significant increases in credit risk for loans, including the impacts of government-led loan deferment.

The principal considerations for our determination that performing procedures relating to the allowances for credit losses for individually assessed and collectively assessed loans is a critical audit matter are (i) the significant judgment by management in determining such allowances including judgment related to the cash flow projections for the individually assessed loans, and measurement uncertainties arising from various assumptions and methodologies including credit rating assessments, forward-looking information and credit risk of loans affected by government-led loan deferment, which in turn led to a high degree of subjectivity in performing

procedures relating to the assumptions used; (ii) the significant judgment in evaluating audit evidence related to the assumptions used; and (iii) the audit effort involved the use of professionals with specialized skill 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 Company's allowance estimation process, which included controls over the assumptions used in determining the allowance for credit losses. These procedures also included, among others, the involvement of professionals with specialized skill and knowledge to assist in testing management's process for determining the allowance for credit losses for individually assessed and collectively assessed loans, including evaluating the appropriateness of estimated future cash flows, evaluating the appropriateness of methodology and models used, testing the accuracy of the data used in the estimates, and evaluating the reasonableness of significant assumptions.

/s/ Samil PricewaterhouseCoopers

Seoul, Korea April 30, 2021

We have served as the Company's auditor since 2020.

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholders and the Board of Directors of Woori Financial Group Inc.:

Opinion on the Financial Statements

We have audited the consolidated statement of financial position of Woori Financial Group Inc. and subsidiaries (the "Group") as of December 31, 2019, the related consolidated statements of comprehensive income, changes in equity, and cash flows for each of the two years in the period ended December 31, 2019 (all expressed in Korean Won), and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Group as of December 31, 2019, and the results of its operations and its cash flows for each of the two years in the period ended December 31, 2019, in conformity with International Financial Reporting Standards as issued by the International Accounting Standards Board.

Basis for Opinion

These financial statements are the responsibility of the Group's management. Our responsibility is to express an opinion on the Group's financial statements based on our audits. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Group 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 audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. Our audits included performing procedures to assess the risks of material misstatement of the 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 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 financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/ DELOITTE ANJIN LLC

Seoul, Korea April 29, 2020

We have served as the Group's auditor from 2002 to 2020.

CONSOLIDATED STATEMENTS OF FINANCIAL POSITION AS OF DECEMBER 31, 2019 AND 2020

	Korea	n Won	U.S. Dollars
	December 31, 2019	December 31, 2020	December 31, 2020
A GOTTING	(in mi	llions)	(in thousands)
ASSETS			0.400.050
Cash and cash equivalents (Note 6)	6,392,566	9,990,983	9,198,953
Financial assets at fair value through profit or loss ("FVTPL") (Notes 4, 7, 11, 12,	0.000.444	4.5604	10.500.515
18 and 26)	8,069,144	14,762,941	13,592,617
Financial assets at fair value through other comprehensive income("FVTOCI")	25 520 521	20.020.020	27 (40 402
(Notes 4, 8, 11, 12, and 18)	27,730,531	30,028,929	27,648,402
Securities at amortized cost (Notes 4, 9, 11, 12 and 18)	20,320,539	17,020,839	15,671,521
Loans and other financial assets at amortized cost (Notes 4, 10, 11, 12, 18 and	202 717 (02	220 106 079	204 720 920
41)	, ,	320,106,078	294,729,839
Investments in joint ventures and associates (Note 13)	806,360	993,291	914,548
Investment properties (Notes 14 and 18)	280,239	387,464	356,748
Premises and equipment (Notes 15 and 18)	3,364,716	3,287,198	3,026,607
Intangible assets (Note 16)	844,110	792,077	729,286
Assets held for sale (Note 17)	10,556	60,002	55,245
Net defined benefit asset (Note 24)	2,582	5,658	5,209
Current tax assets (Note 38)	47,367	75,655	69,657
Deferred tax assets (Note 38)	39,544	46,088 174,820	42,435 160,962
Derivative assets (Designated for hedging) (Notes 4,11,12 and 26)	121,131	<i>'</i>	,
Other assets (Notes 19 and 41)	233,646	1,348,994	1,242,053
Total assets	361,980,724	399,081,017	367,444,082
LIABILITIES			
Financial liabilities at fair value through profit or loss ("FVTPL") (Notes 4, 11, 12,			
20 and 26)	2,958,302	6,813,822	6,273,660
Deposits due to customers (Notes 4, 11, 21 and 41)	264,685,578	291,477,279	268,370,573
Borrowings (Notes 4, 11, 12 and 22)	18,998,920	20,745,466	19,100,880
Debentures (Notes 4, 11 and 22)	30,858,055	37,479,358	34,508,202
Provisions (Notes 23, 40 and 41)	443,980	501,643	461,876
Net defined benefit liability (Note 24)	92,470	52,237	48,096
Current tax liabilities (Note 38)	182,690	370,718	341,330
Deferred tax liabilities (Note 38)	134,322	160,250	147,546
Derivative liabilities (Designated for hedging) (Notes 4,11,12 and 26)	6,837	64,769	59,634
Other financial liabilities (Notes 4,11,12, 25 and 41)	17,706,767	14,215,817	13,088,865
Other liabilities (Notes 25 and 41)	420,471	473,813	436,252
Total liabilities	336,488,392	372,355,172	342,836,914
EQUITY			
Owners' equity (Note 28)	21,510,370	23,053,608	21,226,046
Capital stock	3,611,338	3,611,338	3,325,051
Hybrid securities	997,544	1,895,366	1,745,112
Capital surplus	626,295	626,111	576,476
Other equity	(2,249,322)	,	,
Retained earnings	18,524,515	19,268,265	17,740,784
Non-controlling interests	3,981,962	3,672,237	3,381,122
Total equity		26,725,845	24,607,168
Total liabilities and equity			367,444,082
Total habilities and equity	301,700,724	399,001,017	307,444,002

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, 2018, 2019 AND 2020

		U.S. Dollars		
	2018	2019	2020	2020
	(in millions,	except for per	share data)	(in thousands, except per share data) (Note 2)
Interest income	9,684,499	10,576,770	9,523,853	8,768,854
Financial assets at FVTPL	54,243	50,619	48,612	44,758
Financial assets at FVTOCI	280,371	474,751	437,527	402,842
Financial assets at amortized cost	9,349,885	10,051,400	9,037,714	8,321,254
Interest expense	(4,033,548)	(4,683,064)	(3,525,341)	(3,245,871)
Net interest income (Notes 11, 30 and 41)	5,650,951	5,893,706	5,998,512	5,522,983
Fees and commissions income	1,680,764	1,709,326	1,694,016	1,559,724
Fees and commissions expense	(610,790)	(606,698)	(679,977)	(626,072)
Net fees and commissions income (Notes 11, 31 and 41)	1,069,974	1,102,628	1,014,039	933,652
Dividend income (Notes 11, 32 and 41)	90,552	107,959	138,543	127,560
Net gain on financial instruments at FVTPL (Notes 11, 33				
and 41)	214,443	25,455	421,709	388,278
Net gain on financial assets at FVTOCI (Notes 11 and 34)	2,047	11,015	24,138	22,224
Net gain arising on financial assets at amortized cost				
(Note 11)	79,532	102,115	44,443	40,920
Impairment losses due to credit loss (Notes 35 and 41)	(329,574)	(374,244)	(784,371)	(722,190)
General and administrative expenses (Notes 36 and 41)	(3,624,033)	(3,766,077)	(3,956,181)	(3,642,557)
Other net operating expense (Notes 11, 26, 36 and 41)	(394,591)	(302,581)	(820,438)	(755,398)
Operating income	2,759,301	2,799,976	2,080,394	1,915,472
Share of gain of joint ventures and associates (Note 13)	3,019	83,997	101,077	93,064
Other non-operating income (expense)	42,552	(160,924)	(180,220)	(165,934)
Non-operating income (expense) (Note 37)	45,571	(76,927)	(79,143)	(72,870)
Net income before income tax expense	2,804,872	2,723,049	2,001,251	1,842,602
Income tax expense (Note 38)	(753,223)	(685,453)	(486,002)	(447,474)
Net income	2,051,649	2,037,596	1,515,249	1,395,128

(Continued)

CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME—(CONTINUED) FOR THE YEARS ENDED DECEMBER 31, 2018, 2019 AND 2020

		Korean Won		U.S. Dollars
	2018	2019	2020	2020
	(in millions,	except for per	share data)	(in thousands, except per share data) (Note 2)
Net gain (loss) on valuation of equity securities at FVTOCI	(30,855)	(58,129)	47,246	43,501
FVTPL due to own credit risk	100	_	_	_
Changes in capital due to equity method	_	_	(2,065)	(1,901)
Remeasurement gain (loss) related to defined benefit plan	(84,629)	(34,648)	9,783	9,007
Items that will not be reclassified to profit or loss	(115,384)	(92,777)	54,964	50,607
Net gain on valuation of debt securities at FVTOCI	33,360	43,988	12,114	11,154
Changes in capital due to equity method	2,958	613	(233)	(215)
Net gain (loss) on foreign currency translation of foreign				
operations	(4,379)	101,781	(153,472)	(141,306)
Net gain (loss) on valuation of cash flow hedge	(4,646)	(1,823)	4,420	4,070
Other comprehensive loss on valuation of assets held for sale	(4,145)	_	_	_
Items that may be reclassified to profit or loss	23,148	144,559	(137,171)	(126,297)
Other comprehensive income (loss), net of tax	(92,236)	51,782	(82,207)	
Total comprehensive income		2,089,378	1,433,042	1,319,438
Net income attributable to:				
Net income attributable to owners	2,033,182	1,872,207	1,307,266	1,203,633
Net income attributable to non-controlling interests	18,467	165,389	207,983	191,495
Total comprehensive income attributable to:	10,407	105,507	201,703	171,475
Comprehensive income attributable to owners	1.943.885	1,914,393	1,233,097	1,135,344
Comprehensive income attributable to non-controlling	1,5 .0,000	1,51 1,050	1,200,007	1,100,0
interests	15,528	174,985	199,945	184,094
Earnings per share (Note 39)	,	,	, -	,
Basic and diluted earnings per share (Unit: In Korean Won				
and U.S. Dollar)	2,796	2,727	1,742	1.604

The above consolidated financial statements should be read in conjunction with the accompanying notes.

WOORI FINANCIAL GROUP INC. AND SUBSIDIARIES CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY FOR THE YEARS ENDED DECEMBER 31, 2018, 2019 AND 2020

	Capital Stock	Hybrid securities	Capital surplus	Other equity	Retained earnings	Owners' equity in total	Non-controlling interests	Total equity
January 1, 2018	3,381,392	3,017,888	285,880	(Korean Won in millio (1,939,274) 15,620,006	(Korean Won in millions) 89,274) 15,620,006 2		199,008	20,564,900
Cumulative effect of change in accounting policy Adjusted balance, beginning of period	3,381,392	3,017,888	285,880	(392,176) 177,091 (2,331,450) 15,797,097	177,091 15,797,097	(215,085) 20,150,807	723 199,731	(214,362) 20,350,538
Total comprehensive income					7 022 187	7 022 187	19 167	2.051.640
Net gain on valuation of financial liabilities					2,022,102	2,022,102	10,407	2,021,042
designated as at FVTPL due to own credit risk				100		100		100
Changes in other comprehensive income due to redemption of financial liabilities designated as at								
FVTPL				(4)	4			
Net gain (loss) on valuation of financial instruments								
at FVTOCI				2,733		2,733	(228)	2,505
Net gain (loss) due to disposal of equity securities at								
FVTOCI				(1,009)	1,009			
Changes in capital due to equity method				2,958	(10,647)	(7,689)		(7,689)
Loss on foreign currency translation of foreign								
operations				(1,929)		(1,929)	(2,450)	(4,379)
Loss on valuation of cash flow hedge				(4,646)		(4,646)		(4,646)
Remeasurement loss related to defined benefit								
plan				(84,368)		(84,368)	(261)	(84,629)
Capital related to noncurrent assets held for sale				(4,145)		(4,145)	1	(4,145)
Transactions with owners and others								
Dividends to common stocks					(336,636)	(336,636)	(2,128)	(338,764)
Issuance of hybrid securities		398,707				398,707		398,707
Dividends to hybrid securities					(151,194)	(151,194)		(151,194)
Redemption of hybrid securities		(254,632)		(368)		(255,000)		(255,000)
Changes in subsidiaries' capital			6			6	(18)	(6)
Appropriation of retained earnings				208,158	(208, 158)			
December 31, 2018	3,381,392	3,161,963	285,889	(2,213,970) 17,124,657	17,124,657	21,739,931	213,113	21,953,044

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY—(CONTINUED) FOR THE YEARS ENDED DECEMBER 31, 2018, 2019 AND 2020

	Capital Stock	Hybrid securities	Capital surplus	Other equity	Retained earnings	Owners' equity in total	Non-controlling interests	Total equity
January 1, 2019	3,381,392	3,161,963	285,889	(Korean (2,213,970)	(2,213,970) 17,124,657 21,739,93	s) 21,739,931	213,113	21,953,044
Total comprehensive income					1,872,207	1,872,207	165,389	2,037,596
FVTOCI				(14,101)		(14,101)	(40)	(14,141)
at FVTOCI			1 153	29,368	(29,368)	1 766		
Gain on foreign currency translation of foreign operations			(),1	91.748		91,748	10.033	101,781
Loss on valuation of cash flow hedge Remeasurement loss related to defined benefit				(1,823)		(1,823)		(1,823)
plan				(34,251)		(34,251)	(397)	(34,648)
Dividends to common stocks	229.946		351.663		(437,626)	(437,626) 581.609	(2,014) 69.534	(439,640) 651.143
New stocks issue cost			(12,848)			(12,848)		(12,848)
Net increase of treasury stocks				4,245		4,245		4,245
Issuance of hybrid securities		997,544			(4,362)	997,544 (4.362)	658,470 (134,421)	1,656,014 (138,783)
Redemption of hybrid securities				(277)		(277)	(159,618)	(159,895)
:		(3,161,963)	000			(3,161,963)	3,161,963	80
Changes in substituaties capital Appropriation of retained earnings			458	368	(368)	438	(00)	388
Other changes in consolidated capital				(111,242)	(625)	(111,867)		(111,867)
December 31, 2019	3,611,338	997,544	626,295	(2,249,322)	(2,249,322) 18,524,515	21,510,370	3,981,962	25,492,332

(Continued)

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY—(CONTINUED) FOR THE YEARS ENDED DECEMBER 31, 2018, 2019 AND 2020

	Capital Stock	Hybrid securities	Capital surplus	Other equity	Retained earnings	Owners' equity in total	Non-controlling interests	Total equity
January 1, 2020	3,611,338	997,544	626,295	(Korean (2,249,322)	(Korean Won in millions) (2,249,322) 18,524,515 21,510,370	ons) 21,510,370	3,981,962	25,492,332
Total comprehensive income Net income Net gain (loss) on valuation of financial instruments at FVTOCI				59,417	1,307,266	1,307,266 59,417	207,983 (57)	1,515,249 59,360
Net gain (loss) due to disposal of equity securities at FVTOCI				2,664	(2,664)	— (3 06 C)		— (80 <i>C C)</i>
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
Transactions with owners and others					(205 507)	(505 507)	(170.07)	(507,659)
Dividends to continion stocks		897,822			(785,505)	897,822	(2,0/1)	897,822
Dividends to hybrid securities				(31.252)	(48,915)	(48,915)	(162,362)	(211,277)
Changes in subsidiaries' capital			(184)	4,607	(6,350)	(31,232) $(1,927)$	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
	Capital Stock	Hybrid securities	Capital surplus	Other equity	Retained earnings	Owners' equity in total	Non-controlling interests	Total equity
January 1, 2020	3,325,051	918,464	576,646	(U.S dollars (2,071,008)	(U.S dollars in thousands) (Note 2) (2,071,008) 17,055,994 19,805,1	(Note 2) 19,805,147	3,666,294	23,471,441
Total comprehensive income Net income Net income Net income Net income Net income A financial increments at EVITORI					1,203,633	1,203,633	191,495	1,395,128
Net gain (loss) due to disposal of equity securities at FVTOCI				2,453	(2,453)	5 1 5	(Z)	3 5
Changes in capital due to equity method Loss on foreign currency translation of foreign operations				(2,116) (133,851)		(2,116) (133,851)	(7,455)	(2,116) (141,306)
Gain on valuation of cash flow hedge				3,965 9,006		3,965 9,006	$\begin{array}{c} 105 \\ 1 \end{array}$	4,070 9,007
Transactions with owners and others Dividends to common stocks Learnong of burbard commerties		- 279 908			(465,507)	(465,507)	(1,907)	(467,414)
Dividends to hybrid securities		5,55			(45,037)	(45,037)	(149,491)	(194,528)
Kedemption of hybrid securities Changes in subsidiaries' capital Changes in non-controlling intersects englished to business combination			(170)	4,242	(5,846)	(1,774)	(511,687) 42,062 151,757	(540,462) 40,288 151,757
December 31, 2020	3,325,051	1,745,112	576,476	(2,161,377)	17,740,784	21,226,046	3,381,122	24,607,168

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, 2018, 2019 AND 2020

		Korean Won		U.S. Dollars
	2018	2019	2020	2020
		(in millions)		(in thousands)
Cash flows from operating activities:				(Note 2)
Net income	2,051,649	2,037,596	1,515,249	1,395,128
Adjustments to net income:	2,031,049	2,037,390	1,313,249	1,393,120
Income tax expense	753,223	685,453	486,002	447,474
Interest income	(9,684,499)	(10,576,770)	(9,523,853)	(8,768,854)
Interest expense	4,033,548	4,683,064	3,525,341	3,245,871
Dividend income	(90,552)	(107,959)	(138,543)	(127,560)
	(4,988,280)	(5,316,212)	(5,651,053)	(5,203,069)
Additions of expenses not involving cash outflows:				
Loss on valuation of financial instruments at FVTPL		_	44,863	41,307
Loss on financial assets at FVTOCI	1,053	1,375	787	725
Impairment loss due to credit loss	329,574	374,244	784,371	722,190
Loss on other provisions	28,350	129,682	232,680	214,234
Retirement benefit	142,712	165,125	174,628	160,784
Depreciation and amortization	272,550	505,718	535,548	493,093
Net gain on foreign currency translation		_	191,504	176,323
Loss on derivatives (designated for hedge)	36,483	3,686	82,746	76,186
Loss on fair value hedge	17,299	86,214	68,508	63,077
Loss on valuation of investments in joint ventures and			24.525	
associates	22,772	19,778	24,525	22,581
associates	2,931	_		
Loss on disposal of premises and equipment, intangible assets	2,731			
and other assets	1,160	3,433	2,717	2,502
Impairment loss on premises and equipment, intangible assets	1,100	2,.22	=,,,,,	2,002
and other assets	87	28,295	8,763	8,068
	854,971	1,317,550	2,151,640	1,981,070
Deductions of income not involving cash inflows:				
Gain on valuation of financial instruments at FVTPL	(215,711)	(246,175)	_	_
Gain on financial assets at FVTOCI	(3,100)	(12,390)	(24,925)	(22,949)
Gain on other provisions	(2,014)	(3,302)	(2,450)	(2,256)
Gain on derivatives (designated for hedge)	(35,810)	(126,651)	(67,395)	(62,052)
Gain on fair value hedge	(42,797)	(231)	(9,646)	(8,881)
Gain on valuation of investments in joint ventures and	, , ,	,	,	,
associates	(25,791)	(103,775)	(125,602)	(115,645)
Gain on disposal of investments in joint ventures and associates	(50,511)		(3,470)	(3,195)
Gain on disposal of premises and equipment, intangible assets	(50,511)		(3,470)	(3,173)
and other assets	(30,278)	(1,632)	(9,715)	(8,945)
Reversal of impairment loss on premises and equipment,	. , ,	. , ,		. , ,
intangible assets and other assets	(761)	(103)	(172)	(158)
Profit from bargain purchase	·	· —	(67,427)	(62,082)
Gain on redemption of debentures	(1,597)	_		_
Gain on securities at amortized cost	(431)		_	
Other income	_		(20,600)	(18,967)
	(408,801)	(494,259)	(331,402)	(305,130)
			(1,.02)	

(Continued)

CONSOLIDATED STATEMENTS OF CASH FLOWS—(CONTINUED) FOR THE YEARS ENDED DECEMBER 31, 2018, 2019 AND 2020

			U.S. Dollars	
	2018	2019	2020	2020
		(in millions)		(in thousands)
Changes in operating assets and liabilities:				(Note 2)
Financial instruments at FVTPL	670,872	(506,772)	(875,076)	(805,705)
Loans and other financial assets at amortized cost	(15,718,714)	(11,265,714)	(22,763,192)	(20,958,652)
Other assets	32,328	86,237	(89,918)	(82,790)
Deposits due to customers	13,995,747	15,407,222	27,378,173	25,207,783
Provisions	(11,920)	(63,751)	(184,112)	(169,517)
Net defined benefit liability	(135,313)	(293,008)	(214,741)	(197,718)
Other financial liabilities	7,411,617	(4,719,399)	(2,694,701)	(2,481,079)
Other liabilities	96,900	30,693	(8,150)	(7,504)
	6,341,517	(1,324,492)	548,283	504,818
Cash received from operating activities:				
Interest income received	9,617,201	10,478,357	9,558,119	8,800,404
Interest expense paid	(3,847,275)	(4,383,916)	(4,008,001)	(3,690,269)
Dividends received	90,651	107,940	138,562	127,578
Income tax paid	(551,560)	(552,215)	(315,422)	(290,417)
	5,309,017	5,650,166	5,373,258	4,947,296
Net cash inflow from operating activities	9,160,073	1,870,349	3,605,975	3,320,113
Cash flows from investing activities:				
Cash in-flows from investing activities:				
Disposal of financial instruments at FVTPL	11,919,335	11,357,056	6,605,483	6,081,837
Disposal of financial assets at FVTOCI	9,146,307	14,303,197	20,527,695	18,900,373
Redemption of securities at amortized cost	9,426,757	8,709,947	5,661,472	5,212,662
Disposal of investments in joint ventures and associates	51,435	30,098	410,940	378,363
Disposal of investment properties	3,512	193	353	325
Disposal of premises and equipment	85,892	13,343	22,828	21,018
Disposal of intangible assets	9,199	939	634 26,642	584
Net ilicrease of other assets				24,530
	30,642,437	34,414,773	33,256,047	30,619,692
Cash out-flows from investing activities:	(124.05=)	(20< 012)	(212.053)	(200.210)
Net cash out-flows of business combination	(134,967)	(296,813)	(313,058)	(288,240)
Acquisition of financial instruments at FVTPL	(12,322,160)	(11,823,630)	(8,082,824)	(7,442,063)
Acquisition of financial assets at FVTOCI	(13,275,429)	(23,775,062)	(23,044,741)	(21,217,882)
Acquisition of securities at amortized cost	(15,622,847)	(6,092,078)	(2,380,448)	(2,191,739)
Acquisition of investments in joint ventures and associates	(48,272)	(389,096)	(550,619)	(506,969)
Acquisition of investment properties	(15,195)	(70,346)	(76,588)	(70,517)
Acquisition of intangible assets	(118,668)	(429,547) (126,342)	(149,341)	(137,502) (105,749)
Acquisition of intangible assets	(176,067)		(114,854)	
	(41,713,605)	(43,002,914)	(34,712,473)	(31,960,661)
Net cash outflow from investing activities	(11,071,168)	(8,588,141)	(1,456,426)	(1,340,969)

(Continued)

CONSOLIDATED STATEMENTS OF CASH FLOWS—(CONTINUED) FOR THE YEARS ENDED DECEMBER 31, 2018, 2019 AND 2020

		Korean Won		U.S. Dollars
	2018	2019	2020	2020
		(in millions)		(in thousands) (Note 2)
Cash flows from financing activities:				
Cash in-flows from financing activities:				
Net increase in borrowings	1,257,121	3,081,757	2,033,851	1,872,619
Issuance of debentures	21,505,849	25,510,713	23,082,798	21,252,921
Net increase of other liabilities	_	_	3,971	3,656
Issuance of hybrid securities	398,707	1,656,014	897,822	826,648
Retirement of treasury stocks	_	760,101	_	
Paid-in capital increase on non-controlling interests			45,749	42,122
	23,161,677	31,008,585	26,064,191	23,997,966
Cash out-flows from financing activities:				
Net cash out-flows from hedging activities		(5,520)	(5,409)	(4,980)
Redemption of debentures	(20,903,518)	(23,651,950)	(22,168,962)	(20,411,529)
Redemption of lease liabilities		(217,867)	(204,794)	(188,560)
New stock issue cost	_	(17,337)		
Acquisition of treasury stocks	_	(184,164)	_	_
Dividends paid	(336,636)	(437,626)	(505,587)	(465,507)
Redemption of hybrid securities	(255,000)	(160,000)	(598,850)	(551,376)
Dividends paid to hybrid securities	(147,625)	(161,052)	(211,277)	(194,528)
Dividends paid to non-controlling interest	(2,128)	(2,014)	(2,071)	(1,907)
Paid-in capital decrease on non-controlling interests		(50)		
	(21,644,907)	(24,837,580)	(23,696,950)	(21,818,387)
Net cash inflow from financing activities	1,516,770	6,171,005	2,367,241	2,179,579
Net increase (decrease) in cash and cash equivalents	(394,325)	(546,787)	4,516,790	4,158,723
Cash and cash equivalents, beginning of the period	6,908,286	6,747,894	6,392,566	5,885,799
Effects of exchange rate changes on cash and cash equivalents	233,933	191,459	(918,373)	(845,569)
Cash and cash equivalents, end of the period (Note 6)	6,747,894	6,392,566	9,990,983	9,198,953

The above consolidated financial statements should be read in conjunction with the accompanying notes.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS AS OF DECEMBER 31, 2019 AND 2020 AND FOR THE YEARS ENDED DECEMBER 31, 2018, 2019 AND 2020

1. GENERAL

(1) Summary of the Parent company

Woori Financial Group, Inc. (hereinafter referred to the "Group" or 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 is 3,611,338 million Won as of December 31, 2020 while the Korea Deposit Insurance Corp. ("KDIC"), the Parent company's largest shareholder, owns 124,604,797 shares (17.25%) of the Parent company's stocks issued. The 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 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 Group acquired 76.8% (excluding treasury stocks, 74.0% interest including treasury stocks) interest in Woori Financial Capital Co., Ltd. (formerly Aju Capital Co., Ltd.) on December 10, 2020.

(2) Details of the Parent company and subsidiaries (hereinafter 'Group') as of December 31, 2019 and 2020 are as follows:

		Percentage of ownership (%)			Financial
Subsidiaries	Main business	December 31, 2019	December 31, 2020	Location	statements date of use
Held by Woori Financial Group Inc.					
Woori Bank	Bank	100.0	100.0	Korea	December 31
Woori Card Co., Ltd.	Finance	100.0	100.0	Korea	December 31
Woori Financial Capital Co., Ltd	Finance	_	76.8	Korea	December 31
Woori Investment Bank Co.,	Other credit finance		70.0	110104	Decemoer of
Ltd.(*7)	business	59.8	58.7	Korea	December 31
Woori Asset Trust Co., Ltd.	Real estate trust	67.2	67.2	Korea	December 31
Woori Asset Management Corp	Finance	73.0	73.0	Korea	December 31
Woori Credit Information Co., Ltd	Credit information	100.0	100.0	Korea	December 31
Woori Fund Service Co., Ltd	Finance	100.0	100.0	Korea	December 31
Woori Private Equity Asset					
Management Co., Ltd	Finance	100.0	100.0	Korea	December 31
Ltd	Finance	100.0	100.0	Korea	December 31
Woori FIS Co., Ltd	System software				
	development &				
Waari Einanga Pasaarah Instituta Co	maintenance	100.0	100.0	Korea	December 31
Woori Finance Research Institute Co., Ltd	Other service business	100.0	100.0	Korea	December 31
	Other service business	100.0	100.0	Korea	December 31
Held by Woori Bank Woori America Bank	Einanaa	100.0	100.0	A a	December 31
	Finance	100.0	100.0	America	December 31
Woori Global Markets Asia Limited	F:	100.0	100.0	Hong	D
W 'D LCL' L''.	Finance	100.0	100.0	Kong	December 31 December 31
Woori Bank China Limited	Finance	100.0	100.0	China	
AO Woori Bank	Finance	100.0	100.0	Russia	December 31
Tbk	Finance	79.9	79.9	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 Cambodia	1 manec	77.7	77.7	Rorea	December 31
PLC.(*1)(*5)	Finance	100.0		Cambodia	
Woori Finance Myanmar Co., Ltd	Finance	100.0	100.0	Myanmar	December 31
Wealth Development Bank	Finance	51.0	51.0	Philippines	December 31
Woori Bank Vietnam Limited	Finance	100.0	100.0	Vietnam	December 31
WB Finance Co., Ltd.	Finance	100.0	100.0	Cambodia	December 31
Woori Bank Europe	Finance	100.0	100.0	Germany	December 31
	Asset securitization	0.0	0.0	Korea	December 31
Kumho Trust First Co., Ltd. (*2)	Asset securitization Asset securitization	0.0	0.0	Korea	December 31
Asiana Saigon Inc. (*2)	Asset securitization	0.0	0.0	Korea	December 31
Securitization Specialty Co.,					
Ltd.(*2)	Asset securitization	15.0	15.0	Korea	December 31
Hermes STX Co., Ltd.(*2)	Asset securitization	0.0	0.0	Korea	December 31
BWL First Co., LLC(*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
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
Electric Cable First Co.,			0.0		December 51
Ltd. ^{(*2)(*5)}	Asset securitization	0.0	_	Korea	_
Ltd.(*2)	Asset securitization	0.0	0.0	Korea	December 31
Woori WEBST 1st Co., Ltd.(*2)(*5)	Asset securitization	0.0	_	Korea	_
Wibihansoop 1st Co., Ltd. (*2)	Asset securitization	0.0	0.0	Korea	December 31
Uri QS 1st Co., Ltd.(*2)	Asset securitization	0.0	0.0	Korea	December 31
Uri Display 1st Co., Ltd.(*2)	Asset securitization	0.0	0.0	Korea	December 31
Tiger Eyes 2nd Co., Ltd.(*2)	Asset securitization	0.0	0.0	Korea	December 31

Percentage of ownership (%)

			of ownership %)		
		December 31.	December 31,		Financial statements
sidiaries	Main business	2019	2020	Location	date of use
Woori Serveone 1st Co.,					
Ltd.(*2)(*5)	Asset securitization	0.0		Korea	_
Uri Display 2nd Co., Ltd.(*2)	Asset securitization Asset securitization	0.0	0.0	Korea	December 31
Woori the Colony Unjung Securitization	Asset securitization	0.0	0.0	Rorea	December 31
Specialty Co., Ltd. (*2)	Asset securitization	0.0	0.0	Korea	December 31
Woori Dream 1st Co., Ltd.(*2)	Asset securitization	0.0	0.0	Korea	December 31
Woori Dream 2nd Co., Ltd.(*2)	Asset securitization	0.0	0.0	Korea	December 31
Woori H 1st Co., Ltd.(*2)	Asset securitization	0.0	0.0	Korea	December 31
Woori HS 2nd Co., Ltd.(*5)	Asset securitization	0.0	_	Korea	_
Woori Sinnonhyeon 1st Inc. (*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
Uri S 1st Co., Ltd. ^(*2)	Asset securitization	0.0	0.0	Korea	December 31
Smart Casting Inc. (*2)(*5)	Asset securitization	0.0	_	Korea	_
Uri 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 2nd Co., Ltd.(*2)	Asset securitization	0.0	0.0	Korea	December 31
Woori-HJ 3rd Co., Ltd.(*2)	Asset securitization	0.0	0.0	Korea	December 31
Uri K 2nd Co., Ltd. ^(*2)	Asset securitization	0.0	0.0	Korea	December 31
Woori KC No.1 Co., Ltd.(*2)	Asset securitization	0.0	0.0	Korea	December 31
Woori Lake 1st., Ltd. (*2)(*5)	Asset securitization	0.0	_	Korea	_
Woori QSell 2nd Co., Ltd.(*2)	Asset securitization	0.0	0.0	Korea	December 31
Quantum Jump the 1st Co.,	115500 500 4111112411011	0.0	0.0	110104	December 51
Ltd.(*2)	Asset securitization	0.0	0.0	Korea	December 31
Quantum Jump the 2nd Co.,	115500 500 4111112411011	0.0	0.0	110104	December 51
Ltd.(*2)	Asset securitization	0.0	0.0	Korea	December 31
Woori BK the 1st Co., Ltd.(*2)	Asset securitization	0.0	0.0	Korea	December 31
Woori-HC 1st Co., Ltd. (*2)	Asset securitization	0.0	0.0	Korea	December 31
Wivi Synergy 1st Co., Ltd.(*2)	Asset securitization	0.0	0.0	Korea	December 31
ATLANTIC TRANSPORTATION 1	risset securitization	0.0	0.0	Marshall	December 31
S.A. ^(*2)	Asset securitization	0.0	0.0	islands	December 31
Woori Gongdeok First Co.,	110000 00001111111111111111111111111111	0.0	0.0	15141145	December 51
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	0.0	0.0	Korea	December 31
Woori Dream 3rd Co., Ltd.(*2)	Asset securitization	0.0	0.0	Korea	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	Korea	December 31
Woori-HWC 1st Co., Ltd.(*2)	Asset securitization	_	0.0	Korea	December 31
SPG the 1st Co., Ltd. (*2)	Asset securitization	_	0.0	Korea	December 31
Woori Park I 1st co., Ltd(*2)	Asset securitization		0.0	Korea	December 31
Woori HC 3rd Co., Ltd.(*2)	Asset securitization	_	0.0	Korea	December 31
Woori DS 1 st co., Ltd ^(*2)	Asset securitization		0.0	Korea	December 31
Woori HC 4th Co., Ltd.(*2)	Asset securitization	_	0.0	Korea	December 31
Woori SKR 1st Co., Ltd.(*2)	Asset securitization		0.0	Korea	December 31
G5 Pro Short-term Bond Investment	Securities investment and		0.0	110104	December 51
Fund 13 ^(*3)	others	100.0	100.0	Korea	December 31
Heungkuk Global Private Placement	Securities investment and	100.0	100.0	Horeu	December 31
Investment Trust No. 1(*3)	others	98.5	98.5	Korea	December 31
AI Partners UK Water Supply Private	others	70.5	70.5	Horeu	December 31
Placement Investment Trust	Securities investment and				
No.2 ^(*3)	others	97.3	97.3	England	December 31
Consus Sakhalin Real Estate Investment	Securities investment and	77.5	77.5	Diigitalia	December 51
Trust 1st(*5)	others	75.0	_	Korea	_
Multi Asset Global Real Estate	Securities investment and	75.0		Rorea	
Investment Trust No. 5-2(*3)	others	99.0	99.0	Korea	December 31
Igis Australia Investment Trust	Securities investment and	<i>))</i> .0	<i>)))</i> .0	Rorea	December 31
No. 209-1(*3)	others	99.4	99.4	Korea	December 31
INMARK Spain Private Placement Real	oulers)). T)). T	Roica	December 31
Estate Investment Trust	Securities investment and				
No. 26-2(*3)	others		97.7	Korea	December 31
Woori G Japan Investment Trust	Securities investment and	_	21.1	Korca	December 31
No. 1-2(*3)	others	_	98.8	Korea	December 31
110.1 20 /	oulers	_	70.0	Roica	December 31

(%) **Financial** December 31, December 31, statements Subsidiaries Main business Location 2019 2020 date of use IGIS Global Private Placement Real Estate Securities investment 99 3 993 December 31 and others Korea Principal Guaranteed Trust(*4) Trust 0.0 0.0 December 31 Korea Principal and Interest Guaranteed Trust 0.0 0.0 Korea December 31 Held by Multi Asset Global Real Estate Investment Trust No. 5-2 MAGI No.5 LuxCo Asset securitization 54.6 54.6 Luxembourg December 31 Held by MAGI No.5 LuxCo S.a.r.l. ADP 16 Asset securitization 0.0 0.0 Belgium December 31 Held by Woori Card Co., Ltd. TUTU Finance – WCI Myanmar Co., Ltd. ... Myanmar 100.0 100.0 December 31 Finance Woori Card one of 2017-1 Securitization Specialty Co., Ltd.(*2) (*5) Asset securitization 0.5 Korea Woori Card one of 2017-2 Securitization Specialty Co., Ltd.(*2) Asset securitization 0.5 0.5 Korea December 31 Woori Card one of 2018-1 Securitization Ltd.(*2) . . 0.5 0.5 December 31 Asset securitization 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 Korea December 31 Held by Woori Financial Capital Co., Ltd. Bank 100.0 Korea December 31 ACE Auto Invest the 46th Securitization Specialty Co., Ltd.(*2) 1.0 December 31 Asset securitization Korea ACE Auto Invest the 47th Securitization Specialty Co., Ltd.(*2) 1.0 Korea December 31 Asset securitization ACE Auto Invest the 48th Securitization Specialty Co., Ltd.(*2) Asset securitization 1.0 Korea December 31 ACE Auto Invest the 49th Securitization Specialty Co., Ltd.(*2) 1.0 December 31 Asset securitization Korea 100.0 Trust December 31 Korea Held by Woori Investment Bank Co., Ltd. Dongwoo First Securitization Specialty Co., 5.0 Asset securitization Korea Seari First Securitization Specialty Co., 5.0 5.0 Korea December 31 Asset securitization Seari Second Securitization Specialty Co., Asset securitization 5.0 5.0 Korea December 31 Namjong 1st Securitization Specialty Co., $Ltd.^{(*2)}\ \dots\dots\dots\dots\dots\dots\dots$ Asset securitization 5.0 5.0 Korea December 31 Bukgeum First Securitization Specialty Co., Asset securitization 5.0 5.0 Korea December 31 **Bukgeum Second Securitization Specialty** Asset securitization 5.0 5.0 Korea December 31 WS1909 Securitization Specialty Co., 5.0 Korea December 31 Asset securitization 5.0 WS2003 Securitization Specialty Co., 5.0 December 31 Asset securitization Korea WS2006 Securitization Specialty Co., Asset securitization 5.0 Korea December 31 WJ2008 Securitization Specialty Co., December 31 Asset securitization 5.0 Korea One Punch Korea the 1st Co., Ltd. (*2). 0.0 December 31 Asset securitization 0.0Korea One Punch blue the 1st Co., Ltd.(*2) Asset securitization 0.0 0.0 Korea December 31 Held by Woori Asset Management Corp. Woori China Convertible Bond Hedging feeder Investment Trust H (debt-oriented Securities investment

Percentage of ownership

and others

98.8

99.6

Korea

December 31

Financial December 31, December 31, statements Subsidiaries Main business 2019 Location 2020 date of use Woori China Convertible Bond Master Securities investment and Fund (debt-oriented hybrid)(*3) 98.6 34.5 December 31 others Korea Woori Yellow Chip High Yield Securities investment and Strategic Allocation 1 (FOF)(*3) 89.8 December 31 Korea others Woori Together TDF 2025(*3) Securities investment and others 47.6 Korea December 31 Woori Together TDF 2030(*3) Securities investment and others 47.4 Korea December 31 Woori Together TDF 2035(*3) Securities investment and others 47.8 Korea December 31 Woori Together TDF 2040(*3) Securities investment and December 31 others 48.8 Korea Woori Together TDF 2045(*3) Securities investment and 47.7 December 31 others Korea Woori Together TDF 2050(*3) Securities investment and 87.0 Korea December 31 others Held by Woori Financial Capital Co., Ltd., Woori Private Equity Asset Management Co., Ltd. and Woori Investment Bank Co., Japanese Hotel Real Estate Private Securities investment and Equity Fund 1^(*3)..... 45.5 100.0 December 31 others Korea Held by Woori Global Asset Management Co., Ltd. Woori G China Value Equity (C/ Securities investment and $C(F))^{(*3)(*5)} \quad \dots \dots \dots \dots \dots \dots$ 95.1 Korea others Woori G Global Multi Asset Income Private Placement Investment Securities investment and Trust_Class Cs(*3) . . 22.2 Korea December 31 others Held by Woori Bank, Woori Financial Capital Co., Ltd., Woori Investment Bank Co., Ltd and Woori Private Equity Asset Management Co., Ltd.(*6) Woori Innovative Growth Professional Securities investment and Investment Type Private Investment 60.0 90.0 Korea December 31 others Woori Innovative Growth Professional Investment Type Private Investment Securities investment and 85.0 December 31 others Korea Held by Woori bank and Woori Investment Bank Co., Ltd.(*6) Heungkuk Woori Tech Company Private Placement Investment Trust Securities investment and No. 1(*3) 100.0 100.0 others Korea December 31 Woori Global Development Infrastructure Synergy Company Private Placement Investment Trust Securities investment and 100.0 100.0 Korea December 31 others Woori G NorthAmerica Infra Private Placement Investment Trust Securities investment and No. 1(*3) 100.0 Korea December 31 others Woori G Infrastructure New Deal Specialized Investment Private Equity Securities investment and Investment Trust No. 1(*3) others 100.0 Korea December 31 Woori G Private Placement Real Estate Securities investment and 30.1 December 31 Investment Trust No.2^(*3) others Korea Held by Woori bank(*6) Woori G Woori Bank Partners Private Placement Investment Securities investment and Trust No. 1(*3) others 92.6 Korea December 31 Woori G Secondary Private Placement Securities investment and Investment Trust No. 1(*3) 97.2 December 31 others Korea Woori G Private Placement Real Estate Securities investment and

Percentage of ownership (%)

others

80.0

Korea

December 31

Investment Trust No.1[USD](*3)

		Percentage of ownership $(\%)$			Financial	
Subsidiaries	Main business	December 31, 2019	December 31, 2020	Location	statements date of use	
Held by Woori Financial Capital Co., Ltd Woori G Japan Private Placement Real Estate Feeder Investment Trust No.1-1(*3)	Securities investment and others	_	63.2	Korea	December 31	
Woori G Japan Private Placement Real Estate Master Investment Trust No.1(*3) Held by Woori G Japan Private Placement Real Estate Master Investment Trust No.1	Securities investment and others	_	100.0	Korea	December 31	
GK OK Chatan(*3)	Other financial services	_	_	Japan	December 31	

^(*1) The entity was merged with WB Finance Co., Ltd., which is a second-tier subsidiary, during current period.

(3) The Group has not consolidated the following entities as of December 31, 2019 and 2020 despite having more than 50% ownership interest:

	As of December 31, 2019				
Subsidiaries	Location	Main Business	Percentage of ownership (%)		
Golden Bridge NHN Online Private Equity Investment(*)	Korea	Securities Investment	60.0		
Mirae Asset Maps Clean Water Private Equity Investment Trust 7th(*)	Korea	Securities Investment	59.7		
Kiwoom Yonsei Private Equity Investment Trust(*)	Korea	Securities Investment	88.9		
IGIS Europe Private Placement Real Estate Fund No. 163-2(*)	Korea	Securities Investment	97.9		
IGIS Global Private Placement Real Estate Fund No. 148-1(*)	Korea	Securities Investment	75.0		
IGIS Global Private Placement Real Estate Fund No. 148-2(*)	Korea	Securities Investment	75.0		
Mirae Asset Seoul Ring Expressway Private Special Asset					
Fund No. 1(*)	Korea	Securities Investment	66.7		
Hangkang Sewage Treatment Plant Fund(*)	Korea	Securities Investment	55.6		
KIM Pocheon-Hwado Highway Infra Private Placement Special Asset					
Fund ^(*)	Korea	Securities Investment	55.2		

^(*) Since the investee is a private equity investment fund, the Group does not have the power over the fund's activities even though it holds more than 50% of ownership interest.

^(*2) 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.

^(*3) 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.

^(*4) 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.

^(*5) Companies are excluded from the consolidation as of December 31, 2020.

^(*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) The equity ratio changed due to paid-in capital increase during the current term.

tage of hip (%)
. 7
7
· . /
3.9
1.9
5.0
5.0
5.7
5.6
5.2
5.3
5.7
3.3
0.0
3.8
0.3
3.7.

As of December 31, 2020

(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, 2019						
Subsidiaries	Assets	Liabilities	Operating revenue	Net income (loss) attributable to owners	Comprehensive income (loss) attributable to owners		
Woori Bank(*1)	348,181,658	325,526,568	22,240,947	1,505,547	1,531,793		
Woori Card Co., Ltd	10,087,342	8,299,175	1,368,234	114,196	111,782		
Woori Investment Bank Co., Ltd	3,398,960	3,031,622	204,655	53,358	52,095		
Woori Asset Trust Co., Ltd.(*2)	139,839	45,410	_	_	_		
Woori Asset Management Corp.(*2)	113,037	6,301	9,204	1,720	2,544		
Woori Credit Information Co., Ltd	37,872	7,948	39,118	1,698	1,389		
Woori Fund Service Co., Ltd	16,852	2,109	11,071	1,735	1,735		
Management Co., Ltd	38,243	2,985	4,152	(2,087)	(2,124)		
Ltd. (*2)	32,807	3,230	3,588	(1,360)	(1,360)		
Woori FIS Co., Ltd	91,079	55,112	244,923	3,107	3,119		
Ltd	5,447	1,999	5,452	160	117		

^(*1) The amount is prepared based on the consolidated financial statements of Woori Bank (before reflecting the classification of profit or loss of the discontinued operation).

^(*) Since the investee is a private equity investment fund, the Group does not have the power over the fund's activities even though it holds more than 50% of ownership interest.

^(*2) Net income (loss) attributable to owners of Woori Asset Trust Co., Ltd., Woori Asset Management Corp. and Woori Global Asset Management Co., Ltd. are prepared on a cumulative basis from the date on which the entities were included as subsidiaries, to December 31, 2019.

As of and for the year ended December 31, 2020

Subsidiaries	Assets	Liabilities	Operating revenue	Net income (loss) attributable to owners	Comprehensive income (loss) attributable to owners
Woori Bank	374,310,415	350,790,158	26,838,766	1,363,224	1,295,302
Woori Card Co., Ltd	11,366,596	9,312,986	1,388,208	120,230	118,109
Woori Financial Capital Co., Ltd.(*)	8,880,117	8,053,840	218,945	(30,349)	(38,293)
Woori Investment Bank Co., Ltd	4,332,474	3,803,594	256,079	62,937	62,275
Woori Asset Trust Co., Ltd	185,634	56,396	79,426	35,312	35,954
Woori Asset Management Corp	136,460	23,411	26,158	6,797	6,313
Woori Credit Information Co., Ltd	40,860	9,830	40,010	1,879	1,600
Woori Fund Service Co., Ltd	18,957	2,172	13,346	2,563	2,563
Woori Private Equity Asset					
Management Co., Ltd	38,035	2,009	4,773	823	768
Woori Global Asset Management Co.,					
Ltd	37,935	9,807	10,652	(1,449)	(1,449)
Woori FIS Co., Ltd	97,479	59,577	249,169	2,013	1,935
Woori Finance Research Institute Co.,					
Ltd	7,232	3,689	6,223	105	95

^(*) Net income (loss) attributable to owners of Woori Financial Capital for the year ended December 31, 2020 has been prepared on a cumulative basis since entity was included as the subsidiary.

- (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, 2020, the Group provides 2,540,760 million Won of credit facilities for the structured entities mentioned above.

(6) The Group has entered into various agreements with structured entities such as asset securitization, structured finance, investment fund, and monetary trust. The characteristics 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 vehicles, 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 vehicles' 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 the structured entities recognize 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 financing' 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. '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 valuation gain or loss on investment and dividend income as an investor and may be exposed to losses due to reduction in investment value. Short-term investments in MMF as of December 31, 2019 and 2020 are 47,502 million Won and 427,375 million Won, respectively, and there is no additional commitments.

'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 arrangements, credit offerings. As of December 31, 2019 and 2020, the purchase commitment amount is 2,264,510 million Won and 4,266,319 million Won, respectively.

	December 31, 2019				
	Asset securitization vehicle	Structured Finance	Investment Funds	Real-estate trust	
Total asset of the unconsolidated structured entities	8,230,254	62,879,421	18,265,273	152,257	
Assets recognized in the consolidated financial					
statements related to the unconsolidated structured	5 4 2 0 6 4 6	2 002 217	1 111 620	77 020	
entities	5,128,616	2,982,217	1,411,639	57,928	
Financial assets at FVTPL Financial assets at FVTOCI	324,414 2,006,230	28,834 42,305	1,109,621	655	
Financial assets at amortized cost	2,796,695	2,897,620	120,072	57,273	
Investments in joint ventures and associates	2,770,075	7,475	181,946	<i>51,213</i>	
Derivative assets	1,277	5,983	101,510	_	
Liabilities recognized in the consolidated financial	1,277	5,705			
statements related to the unconsolidated structured					
entities	184	1,291	_	2,808	
Derivative liabilities	_	15	_	_	
Other liabilities (provisions)	184	1,276	_	2,808	
The maximum exposure to risks	5,561,394	3,532,539	1,457,398	77,117	
Investment assets	5,128,616	2,982,217	1,411,639	57,928	
Credit facilities and others	432,778	550,322	45,759	19,189	
Loss recognized on unconsolidated structured entities		1 660	34,312	5,218	
entities	_	4,660	34,312	3,210	
		Decemb	er 31, 2020		
	Asset	G	.		
	securitization vehicle	Structured Finance	Investment Funds	Real-estate trust	
Total asset of the unconsolidated structured entities				Real-estate trust 76,772	
Total asset of the unconsolidated structured entities Assets recognized in the consolidated financial statements related to the unconsolidated structured	vehicle	Finance	Funds		
Assets recognized in the consolidated financial	vehicle	Finance	Funds		
Assets recognized in the consolidated financial statements related to the unconsolidated structured entities	3,900,254	Finance 69,010,369	Funds 44,629,638	76,772	
Assets recognized in the consolidated financial statements related to the unconsolidated structured entities	vehicle 3,900,254 648,700 374,231 163,808	Finance 69,010,369 4,291,535 167,271 41,378	Funds 44,629,638 3,350,605 2,922,716	76,772 22,402 —	
Assets recognized in the consolidated financial statements related to the unconsolidated structured entities Financial assets at FVTPL Financial assets at FVTOCI Financial assets at amortized cost	vehicle 3,900,254 648,700 374,231	Finance 69,010,369 4,291,535 167,271 41,378 4,072,321	Funds 44,629,638 3,350,605 2,922,716 — 39,955	76,772	
Assets recognized in the consolidated financial statements related to the unconsolidated structured entities Financial assets at FVTPL Financial assets at FVTOCI Financial assets at amortized cost Investments in joint ventures and associates	vehicle 3,900,254 648,700 374,231 163,808 109,008	Finance 69,010,369 4,291,535 167,271 41,378 4,072,321 5,958	Funds 44,629,638 3,350,605 2,922,716 — 39,955 387,902	76,772 22,402 —	
Assets recognized in the consolidated financial statements related to the unconsolidated structured entities Financial assets at FVTPL Financial assets at FVTOCI Financial assets at amortized cost Investments in joint ventures and associates Derivative assets	vehicle 3,900,254 648,700 374,231 163,808	Finance 69,010,369 4,291,535 167,271 41,378 4,072,321	Funds 44,629,638 3,350,605 2,922,716 — 39,955	76,772 22,402 —	
Assets recognized in the consolidated financial statements related to the unconsolidated structured entities Financial assets at FVTPL Financial assets at FVTOCI Financial assets at amortized cost Investments in joint ventures and associates Derivative assets Liabilities recognized in the consolidated financial	vehicle 3,900,254 648,700 374,231 163,808 109,008	Finance 69,010,369 4,291,535 167,271 41,378 4,072,321 5,958	Funds 44,629,638 3,350,605 2,922,716 — 39,955 387,902	76,772 22,402 —	
Assets recognized in the consolidated financial statements related to the unconsolidated structured entities Financial assets at FVTPL Financial assets at FVTOCI Financial assets at amortized cost Investments in joint ventures and associates Derivative assets Liabilities recognized in the consolidated financial statements related to the unconsolidated structured	vehicle 3,900,254 648,700 374,231 163,808 109,008 — 1,653	Finance 69,010,369 4,291,535 167,271 41,378 4,072,321 5,958 4,607	Funds 44,629,638 3,350,605 2,922,716 — 39,955 387,902	76,772 22,402 — 22,402 — 22,402 —	
Assets recognized in the consolidated financial statements related to the unconsolidated structured entities Financial assets at FVTPL Financial assets at FVTOCI Financial assets at amortized cost Investments in joint ventures and associates Derivative assets Liabilities recognized in the consolidated financial statements related to the unconsolidated structured entities	vehicle 3,900,254 648,700 374,231 163,808 109,008 — 1,653	Finance 69,010,369 4,291,535 167,271 41,378 4,072,321 5,958 4,607	Funds 44,629,638 3,350,605 2,922,716 — 39,955 387,902	76,772 22,402 — 22,402 — 400	
Assets recognized in the consolidated financial statements related to the unconsolidated structured entities Financial assets at FVTPL Financial assets at FVTOCI Financial assets at amortized cost Investments in joint ventures and associates Derivative assets Liabilities recognized in the consolidated financial statements related to the unconsolidated structured entities Other liabilities (provisions)	vehicle 3,900,254 648,700 374,231 163,808 109,008 — 1,653	Finance 69,010,369 4,291,535 167,271 41,378 4,072,321 5,958 4,607	Funds 44,629,638 3,350,605 2,922,716 — 39,955 387,902	76,772 22,402 — 22,402 — 400 400	
Assets recognized in the consolidated financial statements related to the unconsolidated structured entities Financial assets at FVTPL Financial assets at FVTOCI Financial assets at amortized cost Investments in joint ventures and associates Derivative assets Liabilities recognized in the consolidated financial statements related to the unconsolidated structured entities	vehicle 3,900,254 648,700 374,231 163,808 109,008 — 1,653	Finance 69,010,369 4,291,535 167,271 41,378 4,072,321 5,958 4,607	Funds 44,629,638 3,350,605 2,922,716 — 39,955 387,902 32 — —	76,772 22,402 — 22,402 — 400	
Assets recognized in the consolidated financial statements related to the unconsolidated structured entities Financial assets at FVTPL Financial assets at FVTOCI Financial assets at amortized cost Investments in joint ventures and associates Derivative assets Liabilities recognized in the consolidated financial statements related to the unconsolidated structured entities Other liabilities (provisions) The maximum exposure to risks	vehicle 3,900,254 648,700 374,231 163,808 109,008 — 1,653 130 130 970,628	Finance 69,010,369 4,291,535 167,271 41,378 4,072,321 5,958 4,607 963 963 5,366,037	Funds 44,629,638 3,350,605 2,922,716 39,955 387,902 32 — 3,438,924	76,772 22,402 — 22,402 — 400 400 65,722	
Assets recognized in the consolidated financial statements related to the unconsolidated structured entities Financial assets at FVTPL Financial assets at FVTOCI Financial assets at amortized cost Investments in joint ventures and associates Derivative assets Liabilities recognized in the consolidated financial statements related to the unconsolidated structured entities Other liabilities (provisions) The maximum exposure to risks Investment assets	vehicle 3,900,254 648,700 374,231 163,808 109,008 — 1,653 130 130 970,628 648,700	Finance 69,010,369 4,291,535 167,271 41,378 4,072,321 5,958 4,607 963 963 5,366,037 4,291,535	Funds 44,629,638 3,350,605 2,922,716 39,955 387,902 32 3,438,924 3,350,605	76,772 22,402 — 22,402 — 400 400 65,722 22,402	

- (7) As of December 31, 2019 and 2020, 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

	December 31, 2019	December 31, 2020
Woori Bank ^(*)	3,660,814	3,105,070
Woori Financial Capital Co., Ltd	_	166,369
Woori Investment Bank Co., Ltd	151,170	222,289
Woori Asset Trust Co., Ltd	40,161	49,738
Woori Asset Management Corp	29,800	31,369
PT Bank Woori Saudara Indonesia 1906 Tbk	83,315	79,890
Wealth Development Bank	18,524	19,521

^(*) Hybrid securities issued by Woori Bank

2) Net income attributable to non-controlling interests

	For the years ended December 3		
	2018	2019	2020
Woori Bank ^(*)	_	134,421	162,362
Woori Financial Capital Co., Ltd	_	_	1,466
Woori Investment Bank Co., Ltd	10,262	21,588	25,643
Woori Asset Trust Co., Ltd	_	_	9,732
Woori Asset Management Corp	_	408	1,699
PT Bank Woori Saudara Indonesia 1906 Tbk	8,126	8,502	6,040
Wealth Development Bank	39	427	1,130

^(*) Distribution of the hybrid securities issued by Woori Bank

3) Dividends to non-controlling interests

	For the years ended December		
	2018	2019	2020
Woori Bank ^(*)	_	134,421	162,362
Woori Asset Trust Co., Ltd	_	_	365
PT Bank Woori Saudara Indonesia 1906 Tbk	2,082	1,981	1,669

^(*) 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 1,086.1 Korean Won to US\$1.00, the noon buying exchange rate in effect on December 31, 2020, 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.

The consolidated financial statements of the Group were first approved for the issuance by the Board of Directors on February 5, 2021 and amended on March 5, 2021. The final approval was made in the annual general shareholders' meeting on March 26, 2021.

- 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 Amendments to IFRS 3 Business Combination—Definition of a Business
 - To consider the integration of the required activities and assets as a business, the amended definition of a business requires an acquisition to include an input and a substantive process that together significantly contribute to the ability to create outputs, and excludes economic benefits from the lower costs. An entity can apply a concentration test, an optional test, where substantially all of the fair value of gross assets acquired is concentrated in a single asset or a group of similar assets, the assets acquired would not represent a business. The amendment does not have a significant impact on the financial statements.
 - ② Amendments to IAS 1 Presentation of Financial Statements and IAS 8 Accounting policies, changes in accounting estimates and errors—Definition of Materiality
 - The amendments clarify the explanation of the definition of materiality and amended IAS 1 and IAS 8 according to the definition. Materiality is assessed by reference to omission or misstatement of material information as well as effects of immaterial information, and to the nature of the users when determining the information to be disclosed by the Group. The amendment does not have a significant impact on the financial statements.
 - 3 Amendments to IFRS 16 Lease—Practical expedient for COVID-19-Related Rent Exemption, Concessions, Suspension
 - As a practical expedient, a lessee may elect not to assess whether a rent concession occurring as a direct consequence of the COVID-19 pandemic is a lease modification. A lessee that makes this election shall account for any change in lease payments resulting from the rent concession the same way it would account for the change applying this Standard if the change were not a lease modification.
 - With implementation of IFRS 16 Lease, the Group has changed its accounting policy. The Group has adopted IFRS 16 retrospectively, as permitted under the specific transitional provisions in the standard. There was no cumulative impact on the beginning balance of retained earnings as at January 1, 2020 by retrospectively applying this standard, and the Group did not restate comparatives for the 2019 reporting period. The impact of the adoption of the leasing standard are disclosed in Note 42.
- 2) The details of IFRSs that have been issued and published as of the date of issue approval of financial statements but have not yet reached the effective date, and which the Group has not applied at an earlier date are as follows:
 - ① 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 amendments should be applied for annual periods beginning on or after January 1, 2022, 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 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 amendments should be applied for annual periods beginning on or after January 1, 2022, and earlier application is permitted. The Group does not expect that these amendments have a significant impact on the financial statements.

3 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 amendments should be applied for annual periods beginning on or after January 1, 2022, and earlier application is permitted. The Group does not expect that these amendments have a significant impact on the financial statements.

4 Annual Improvements to IFRSs 2018-2020

Annual improvements of IFRSs 2018-2020 Cycle should be applied for annual periods beginning on or after January 1, 2022, and earlier application is permitted. The Group does not expect that these amendments have a significant impact on the financial statements.

- IFRS 1 First time Adoption of International Financial Reporting Standards- Subsidiaries that are first-time adopters
- IFRS 9 Financial Instruments—Fees related to the 10% test for derecognition of financial liabilities
- IFRS 16 Leases—Lease incentives
- IAS 41 Agriculture—Measuring fair value
- S 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, 2023, and earlier application is permitted. The Group does not expect that these amendments have a significant impact on the financial statements.

Amendments to IFRS 9 'Financial Instruments,' IAS 39 'Financial Instruments: Recognition and Measurement', IFRS 7 'Financial Instruments: Disclosure', IFRS 4 'Insurance Contracts', IFRS 16 'Leases'—Interest Rate Benchmark Reform Phase 2

The amendments clarify that, in case of interest rate benchmark replacements, financial instruments measured at amortized cost shall be recalculated by updating the effective interest rate rather than adjusting the carrying amount. Also, the amendments include the exceptions to hedge accounting requirements that the entity can apply hedge accounting without any discontinuation, in case of interest rate benchmark transitions in hedging relationships. The amendments should be applied for annual periods beginning on or after January 1, 2021, and earlier application is permitted.

The Group holds derivatives, loans and debentures and others that are directly affected by the interest rate benchmark reform and is carrying out a project to replace the contracts referring to the existing benchmark interest rate with the alternative benchmark interest rates, with an aim to mitigate business disruptions and operational risk, and to reduce possible financial losses.

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 amounts 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. If there is any indication for impairments defined under IAS 36—Impairment of Assets, the entire carrying amount of the investment (including goodwill) is tested for impairment in accordance with IAS 36 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:

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.

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.

• 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.

• 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.

• 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.

• Fees 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.

Fees 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.

• 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.

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 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 on the trade date. 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 interest, 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 (e.g. non-recourse feature)

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 as gain (loss) on financial instruments at FVTPL 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 is 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 is presented at amortized cost using effective interest method, less allowance for credit losses.

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 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 as gain (loss) on financial instruments at FVTPL in profit or loss.

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 designated as at FVTPL are recognized as gain (loss) on financial instruments at FVTPL in profit or loss.

Financial liabilities not classified as financial liabilities at FVTPL are measured at amortized cost. The Group is classifying liabilities such as deposits due to customers, borrowings and debentures as financial liabilities 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 book value and the sum of proceeds and accumulated other comprehensive income is recognized as gain (loss) on financial instruments at FVTOCI 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 book value 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 book value 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 book value retained in the books, and to the portion of book value 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 includes management of an entity's specific assumptions (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 allowance for credit losses 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 allowance for credit loss under general approach is differentiated depending on whether the credit risk has increased significantly after initial recognition. That is, allowance for credit losses is measured based on 12-month expected credit loss when the credit risk has not increased significantly after initial recognition, while allowance for credit losses 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 allowance for credit losses under simplified approach is always based on lifetime expected credit loss, and allowance for credit losses 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 allowance for credit losses account, and when the financial asset is determined to be uncollectible, the allowance for credit losses is written off from the books along with the related financial asset.

b) Measurement of expected credit losses on financial asset at FVTOCI (debt securities)

The measurement method of expected credit loss is identical to financial asset at amortized cost, but changes in the allowance for credit losses is recognized in other comprehensive income. When financial assets at FVTOCI is disposed or repaid, the related allowance for credit losses is reclassified from other comprehensive income to gain (loss) on financial instruments at FVTOCI in 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 book value 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 as other non-operating income (expense) 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	35 to 57 years
Structures in leased office	4 to 5 years
Properties for business purpose	4 to 5 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. The estimated useful life and amortization method of intangible assets with an indefinite useful life are reviewed at the end of each reporting period to ensure that the asset has an indefinite useful life. 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	10 years
Development costs	5 years
Software and others	1 to 10 years

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 in 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 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 15,810 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 and 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 book value 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 book value 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, book value 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 book value. 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 as other non-operating income (expense) 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 book value 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 book value 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.

5) Interest Rate Benchmark Reform Phase 1

Interest Rate Benchmark Reform Phase 1 requires that, for the purpose of determining whether a forecast transaction (or a component thereof) is highly probable, an entity shall assume that the interest rate benchmark on

which the hedged cash flows (contractually or non-contractually specified) are based is not altered as a result of interest rate benchmark reform. When applying the prospective assessment, Interest Rate Benchmark Reform Phase 1 further requires that an entity shall assume that the hedged risk or the interest rate benchmark on which the hedged item or the hedging instrument is based is not altered as a result of the reform. Additionally, for a hedge of a non-contractually specified benchmark component of interest rate risk, an entity shall apply the requirement that the risk component shall be separately identifiable only at the inception of the hedging relationship.

(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 (or disposal group) 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.

- Allowance for credit losses in accordance with IFRS 9
- Initial book value 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 consolidated 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 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

The outbreak of COVID-19 in 2020 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 loan receivables. Despite the announcement of these various forms of government support policies, the negative impact of the COVID-19 on the global economy continues.

Significant changes have been made in future forecast information affecting expected credit losses for the period ended December 31, 2020, and major economic factors are expected to remain negative for a considerable period of time after 2020 due to the influence of COVID-19, and uncertainties in recovery or deterioration will persist.

Considering this situation comprehensively, the Group updated the forward-looking information used to estimate expected credit losses in accordance with IFRS 9 *Financial Instruments* by changing major variables such as GDP to reflect the impact of COVID-19, which has brought a global economic recession. Also, the Group reflected the impact on the borrowers subject to deferred loan principal and interest payments. The measure is in line with the Korean government's policies under which financial institutions in Korea are encouraged to provide financial support to particular sectors by extending loan terms and deferring interest payments with respect to small- and medium sized enterprises and small merchants affected by the COVID-19 pandemic.

<Woori Bank>

As abovementioned, Korean government has adopted policies for Korean banks to provide relief or assistance to customers affected by the COVID-19 pandemic and the Bank performs decision making processes, including internal assessments in order to determine borrowers eligible for such financial support.

The Bank determined that the credit risk of loans affected by the loan deferment has significantly increased; and evaluated that the possibility of default is high. As a result, total loans (Loans, payment guarantees) that are subject to loan deferment and interest deferment amount to 1,820,324 million Won, and expected credit loss allowance have increased for 219,231 million Won which consist of increases of corporate loan expected credit loss allowance for 210,173 million Won and retail loan expected credit loss allowance for 9,058 million Won.

Total loans (Loans, payment guarantees) that are subject to loan deferment and interest deferment consist of corporate loan of 1,697,899 million Won and retail loan of 122,425 million Won. Among total loans, loans changed its stage from 12-month to lifetime (Stage 2) expected credit losses amount to 1,650,526 million Won, which consist of corporate loan of 1,548,805 million Won and retail loan of 101,721 million Won. 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 Card>

As of December 31, 2020, Woori Card has 9,136 million Won in financial assets at amortized cost related to borrowers eligible for financial support, and the additional provision is 196 million Won.

<Woori Financial Capital and Woori Investment Bank>

Woori Financial Capital and Woori Investment Bank increased their expected credit loss allowance by 18,457 million Won and 8,701 million Won, respectively.

The significant accounting estimates and assumptions are continuously being evaluated based on numerous factors including historical experiences and expectations of future events considered to be reasonably possible. Actual results can differ from those estimates based on such definitions. The accounting estimates and

assumptions that contain significant risk of materially changing current book values of assets and liabilities in the next accounting periods are as follows:

(1) 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 and/or 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 book value 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.

(2) 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.

(3) Impairment of financial instruments

IFRS 9 requires entities to measure allowance for credit losses equal to 12-month expected credit losses or lifetime expected credit losses after classifying financial assets into one of the three stages, which depends on the degree of increase in credit risk after their initial recognition.

	Stage 1	Stage 2	Stage 3
	Credit risk has not significantly increased since initial recognition(*)	Credit risk has significantly increased since initial recognition	Credit impaired
Allowance for expected	Expected 12-month credit losses:	Expected lifetime credit l	osses:
credit losses	Expected credit losses due to	Expected credit losses fro	om all possible
	possible defaults on financial	defaults during the expec	ted lifetime of the
	instruments within a 12-month period from the year-end.	financial instruments.	

^(*) Credit risk may be considered not to have been significantly increased when credit risk is low at year-end.

Allowance for credit losses is determined by the estimation of the expected cash flows for each borrower 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, provisions for guarantees and provisions for unused loan 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.

Probability of default (PD) and Loss given default (LGD) for each category of financial asset is being calculated by considering factors such as debtor 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 economic growth rates, interest rates, market index rates, etc., in order to forecast future economic conditions.

The Group is conducting the following procedures to estimate and apply future economic forecast information.

 Development of prediction models by analyzing the correlation between default rates of corporate and retail exposures per year and macroeconomic indicators

Major macroeconomic indicators	Correlation between credit risk and macroeconomic indicators
GDP growth rate	Negative(-) Correlation
Home price index	Negative(-) Correlation
Consumer price index	Negative(-) Correlation

Calculation of predicted 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 prediction model developed

The results of Woori Bank's sensitivity analysis on expected credit loss allowance due to changes in macroeconomic indicators as of December 31, 2020 are as follows (Unit: Korean Won in millions):

			December 31, 2020
Corporate	GDP growth rate	Increase by 1% point	(86,086)
		Decrease by 1% point	96,177
Retail	Consumer Price Index	Increase by 1% point	(15,807)
		Decrease by 1% point	17.119

The Economic outlook of each major macroeconomic indicator for the year 2021 is as follows:

Major macroeconomic indicators	Basic Scenario	Upside Scenario	Downside Scenario	
GDP growth rate	3.00%	3.19%	2.66%	
Consumer Price Index	1.00%	1.07%	0.88%	
Home Price Index	100.98	101.09	100.78	

Woori Bank's probability weights for multiple economic scenario are as follows:

	Basic Scenario	Upside Scenario	Downside Scenario
47.46%		14.33%	38.21%

Assuming the probability weight for upside and downside scenario is 100% and all others remain the same, the Bank considered multiple economic scenario in applying the future economic forecast information to measure expected credit losses. The sensitivity analysis results on the Bank's expected credit losses is as follows (Unit: Korean Won in millions):

Scenario	Difference from carrying amount
Upside	(31,141)
Downside	30,642

At the end of every reporting period, the Group evaluates whether credit risk reflecting forward-looking information has significantly been increased since the date of initial recognition. When evaluating whether credit risk has significantly been increased, the changes in the probability of default over the financial instrument's remaining life is used instead of changes in the amount of expected credit losses.

The Bank performs the above evaluation with distinctions made to 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	

(*) Determining whether there has been a significant decrease in the credit rating of corporate and retail exposures applies only to credit ratings that are measured through 12-month expected credit loss. The Woori Bank, which is an important subsidiary of the Group, has applied the above 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- ∼ 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 sees 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 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 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. Notwithstanding the write-off, the Group may still exercise its right of collection after the asset has been written off in accordance with its collection policies.

(4) 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's operating activity is exposed to various financial risks and the 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, risk management responsible, 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 risk management office (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

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 grade, other than quantitative methods utilizing financial statements and others, and assessor's judgement, the Group utilizes credit grades derived using statistical methods.

In order to manage credit risk limit, the Group establishes the appropriate credit line per obligor, company or industry. It monitors 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 credit derivatives. 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) Maximum exposure to credit risk

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 book value 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, 2019 and 2020 is as follows (Unit: Korean Won in millions):

		December 31, 2019	December 31, 2020
Loans and other financial assets at	Korean treasury and government		
amortized cost(*1)	agencies	14,797,040	9,725,719
	Banks	18,597,206	19,493,189
	Corporates	101,041,110	114,131,994
	Consumers	159,282,337	176,755,176
	Sub-total	293,717,693	320,106,078
Financial assets at FVTPL(*2)	Deposit	27,901	48,796
	Debt securities	2,337,085	2,887,097
	Loans	212,473	676,291
	Derivative assets	2,921,903	6,901,742
	Sub-total	5,499,362	10,513,926
Financial assets at FVTOCI	Debt securities	26,795,161	28,948,141
Securities at amortized cost	Debt securities	20,320,539	17,020,839
Derivative assets	Derivative assets (Designated for		
	hedging)	121,131	174,820
Off-balance accounts	Guarantees ^(*3)	12,618,917	11,809,456
	Loan commitments	103,651,674	112,088,680
	Sub-total	116,270,591	123,898,136
	Total	462,724,477	500,661,940

^(*1) 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, 2019						
	Korea	China	USA	UK	Japan	Others(*)	Total
Loans and other financial assets							
at amortized cost	268,316,454	5,108,144	5,077,666	1,844,374	1,172,209	12,198,846	293,717,693
Securities at amortized cost	20,104,604	_	66,747	_	_	149,188	20,320,539
Financial assets at FVTPL	5,488,229	10,409	_	_	724	_	5,499,362
Financial assets at FVTOCI	24,553,655	332,319	144,601	102,311	2	1,662,273	26,795,161
Derivative assets (Designated							
for hedging)	121,131	_	_	_	_	_	121,131
Off-balance accounts	112,602,603	1,211,857	387,795	78,850	46,662	1,942,824	116,270,591
Total	431,186,676	6,662,729	5,676,809	2,025,535	1,219,597	15,953,131	462,724,477

^(*) Others consist of financial assets in Indonesia, Hong Kong, Germany, Australia, and other countries.

^(*2) Puttable financial instruments are not included.

^(*3) As of December 31, 2019 and 2020, the financial guarantee amount of 4,317,969 million Won and 4,163,382 million Won are included, respectively.

December	31.	2020

	Korea	China	USA	UK	Japan	Others(*)	Total
Loans and other financial assets							
at amortized cost	296,186,751	4,356,747	3,988,304	1,990,490	1,404,670	12,179,116	320,106,078
Securities at amortized cost	16,749,531	_	110,597	_	_	160,711	17,020,839
Financial assets at FVTPL	6,954,630	13,403	1,083,096	493,285	480,760	1,488,752	10,513,926
Financial assets at FVTOCI	25,966,333	608,893	1,092,636	5	5,460	1,274,814	28,948,141
Derivative assets (Designated							
for hedging)	_	_	165,458	3,740	_	5,622	174,820
Off-balance accounts	119,699,069	1,393,734	399,678	38,389	41,378	2,325,888	123,898,136
Total	465,556,314	6,372,777	6,839,769	2,525,909	1,932,268	<u>17,434,903</u>	500,661,940

^(*) Others consist of financial assets in Indonesia, Hong Kong, Germany, Australia, and other countries.

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, 2019 and 2020 (Unit: Korean Won in millions):

			De	ecember 31, 20)19		
	Service	Manufacturing	Finance and insurance	Construction	Individuals	Others	Total
Loans and other financial assets at amortized							
cost	51,233,088	32,983,972	36,141,770	3,291,001	155,120,055	14,947,807	293,717,693
Securities at amortized							
cost	8,545,838	_	10,979,001	364,591	_	431,109	20,320,539
Financial assets at							
FVTPL	162,780	128,666	4,084,698	39,193	15,430	1,068,595	5,499,362
Financial assets at							
FVTOCI	85,609	139,098	18,968,456	10,047	9,241	7,582,710	26,795,161
Derivative assets							
(Designated for							
hedging)	_	_	121,131	_	_		121,131
Off-balance accounts	17,813,366	23,841,881	10,015,897	4,161,139	53,335,209	7,103,099	116,270,591
Total	77,840,681	57,093,617	80,310,953	7,865,971	208,479,935	31,133,320	462,724,477

Finance and Service Manufacturing insurance Construction Individuals Others **Total** Loans and other financial assets at amortized cost 56,627,927 35,933,953 35,450,774 3,493,000 172,116,780 16,483,644 320,106,078 Securities at amortized 492,172 6,691 8,926,909 302,225 **—** 7,292,842 17,020,839 cost Financial assets at FVTPL 32,240 14,619 1,410,932 10,513,926 301,296 234,712 8,520,127 Financial assets at FVTOCI 475,881 207,903 23,017,149 142,396 **—** 5,104,812 28,948,141 Derivative assets (Designated for

174,820

Off-balance accounts . . . <u>18,828,656</u> <u>21,460,581</u> <u>12,086,935</u> <u>4,060,358</u> <u>62,477,117</u> <u>4,984,489</u> <u>123,898,136</u> Total <u>76,725,932</u> <u>57,843,840</u> <u>88,176,714</u> <u>8,030,219</u> <u>234,608,516</u> <u>35,276,719</u> <u>500,661,940</u>

December 31, 2020

174,820

② The detailed industries of financial assets and corporate loans that have been affected by the spread of COVID-19 as of December 31, 2020 are as follow and the industries that can be affected may change by future economic conditions (Unit: Korean Won in millions):

< Woori Bank >

hedging)

			Loans and other financial assets at amortized cost	Financial assets at FVTPL	Financial assets at FVTOCI
Service business	Distribution	General retail			
	business	business	1,070,789	11,944	5,461
		General wholesale			
		business	1,407,563	3,573	_
		Sub-total	2,478,352	15,517	5,461
	Accommodation	business	1,525,157	9,305	5,471
	Travel business		59,858	_	_
	Art/sports, leisur	e service	1,467,643	17,739	_
	Food business .		1,078,832	2,515	_
	Transportation b	usiness	395,873	461	8,752
	Education busine	ess	367,701	489	_
	Others		1,286,578	2,691	_
	Sub-total .		8,659,994	48,717	19,684
Manufacturing	Textile		2,281,344	6,608	6,559
	Metal		1,390,290	47,903	_
	Non-metal		698,478	8,357	_
	Chemical		1,819,207	19,161	_
	Transportation .		3,268,095	2,060	_
	Electronics		1,424,297	19,280	_
	Cosmetics		323,231	217	_
	Others		368,123	277	_
	Sub-total .		11,573,065	103,863	6,559
	Total		20,233,059	152,580	26,243

			Off-balance accounts	Total
Service business	Distribution	General retail		
	business	business	897,101	1,985,295
		General wholesale		
		business	483,360	1,894,496
		Sub-total	1,380,461	3,879,791
	Accommodation	business	152,059	1,691,992
	Travel business		21,350	81,208
	Art/sports, leisu	re service	114,388	1,599,770
	Food business .		135,680	1,217,027
	Transportation b	ousiness	193,578	598,664
	Education busin	ess	48,064	416,254
	Others		318,641	1,607,910
	Sub-total .		2,364,221	11,092,616
Manufacturing	Textile		1,064,005	3,358,516
	Metal		1,581,887	3,020,080
	Non-metal		377,506	1,084,341
	Chemical		3,233,405	5,071,773
	Transportation .		2,183,616	5,453,771
	Electronics		1,789,605	3,233,182
	Cosmetics		54,518	377,966
	Others		1,483,551	1,851,951
	Sub-total .		11,768,093	23,451,580
	Total		14,132,314	34,544,196

< Woori Card Co., Ltd. >

	Loans and other financial assets at amortized cost	Financial assets at FVTPL	Financial assets at FVTOCI	Off-balance accounts	Total
Accommodation business	4,959	_	_	12,315	17,274
Travel business	2,175	_	_	25,367	27,542
Aviation	479	_	_	4,179	4,658
Cosmetics industry	2,462	_	_	13,376	15,838
Distribution business	8,050	_	_	44,354	52,404
Food industry	33,084	_	_	163,711	196,795
Art/sports, leisure service	6,156	_	_	51,962	58,118
Total	57,365	_	_	315,264	372,629

<Woori Financial Capital Co., Ltd.>

			Loans and other financial assets at amortized cost	Financial assets at FVTPL	Financial assets at FVTOCI
Service business	Distribution	General retail			
	business	business	8,978	_	
		General wholesale			
		business	57,587	_	_
		Sub-total	66,565	_	_
	Accommodation	business	6,292	_	_
	Travel business		1,293	_	_
	Art/sports, leisu	re service	615	_	_
	Food business .		21,774	_	_
	Transportation b	ousiness	28,270	_	_
	Education busin	ess	1,132	_	_
	Others		365,860	27,364	
	Sub-total .		491,801	27,364	
Manufacturing	Textile		29,415	_	
	Metal		17,963		
	Non-metal		4,780	_	_
	Chemical		2,501	_	_
	Transportation .		52,514	_	_
	Electronics		12,665	_	_
	Cosmetics		_	_	_
	Others		5,335	_	_
	Sub-total .		125,173	_	_
Total Co	OVID-19 vulnerab	ole business	616,974	27,364	_
Other business	Others		6,202,754	225,078	
	Total		6,819,728	252,442	

			Off-balance accounts	Total
Service business	Distribution	General retail		
	business	business	_	8,978
		General wholesale		
		business	_	57,587
		Sub-total	_	66,565
	Accommodation	business	_	6,292
	Travel business		_	1,293
	Art/sports, leisu	re service	_	615
	Food business .		_	21,774
	Transportation b	ousiness	_	28,270
	Education busin	ess	_	1,132
	Others		38,681	431,905
	Sub-total .		38,681	557,846
Manufacturing	Textile		_	29,415
	Metal		3,365	21,328
	Non-metal		_	4,780
	Chemical		_	2,501
	Transportation .		_	52,514
	Electronics		_	12,665
	Cosmetics		_	_
	Others		_	5,335
	Sub-total .		3,365	128,538
Total Co	OVID-19 vulnerab	ole business	42,046	686,384
Other business	Others		333,766	6,761,598
	Total		375,812	7,447,982

< Woori Investment Bank Co., Ltd. >

	Loans and other financial assets at amortized cost	Financial assets at FVTPL	Financial assets at FVTOCI	Off-balance accounts	Total
Accommodation business	44,900	_	_	_	44,900
Distribution business	15,716	20,000	_	_	35,716
Art/sports, leisure service	28,000	_	_	_	28,000
Total	88.616	20,000	_	_	108,616

3) 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, 2019 and 2020 is as follows (Unit: Korean Won in millions):

		December 31, 2019							
	St	age 1	Sta	ige 2				_	
	Above appropriate credit rating(*1)	Less than a limited credit rating(*3)	Above appropriate credit rating(*2)	Less than a limited credit rating(*3)	Stage 3	Total	Allowance for credit losses	Total, net	
Loans and other financial assets at amortized									
cost	255,709,205	19,823,451	8,712,860	9,625,024	1,504,172	295,374,712	(1,657,019)	293,717,693	
Korean treasury and government									
agencies	14,789,933	10,390	_	_	1	14,800,324	(3,284)	14,797,040	
Banks	18,336,664	109,667	150,318	_	21,907	18,618,556	(21,350)	18,597,206	
Corporates	82,286,304	15,201,687	485,469	3,267,311	792,375	102,033,146	(992,036)	101,041,110	
General									
business	45,769,233	6,191,625	441,089	1,620,761	544,238	54,566,946	(678,237)	53,888,709	
Small- and medium-sized									
enterprise	32,180,551	8,507,800	44,380	1,586,865	230,901	42,550,497	(287,027)	42,263,470	
Project	32,160,331	6,507,600	44,360	1,560,605	230,901	42,330,497	(207,027)	42,203,470	
financing and									
others	4,336,520	502,262	_	59,685	17,236	4,915,703	(26,772)	4,888,931	
Consumers	140,296,304	4,501,707	8,077,073	6,357,713	689,889	159,922,686	(640,349)	159,282,337	
Securities at amortized									
cost	20,326,050	_	_	_	_	20,326,050	(5,511)	20,320,539	
Financial assets at									
FVTOCI(*4)	26,684,601	110,560				26,795,161	(8,569)	26,795,161	
Total	302,719,856	19,934,011	8,712,860	9,625,024	1,504,172	342,495,923	(1,671,099)	340,833,393	

	December 31, 2019					
		Collatera	l value			
	Stage1	Stage2	Stage3	Total		
Loans and other financial assets at amortized cost	169,438,539	14,451,806	692,139	184,582,484		
Korean treasury and government agencies	_	_	_	_		
Banks	612,200	2,028	_	614,228		
Corporates	55,602,818	2,335,496	394,860	58,333,174		
General business	22,291,348	1,023,766	240,771	23,555,885		
Small- and medium-sized enterprise	31,517,538	1,311,730	145,061	32,974,329		
Project financing and others	1,793,932		9,028	1,802,960		
Consumers	113,223,521	12,114,282	297,279	125,635,082		
Securities at amortized cost	_		_	_		
Financial assets at FVTOCI(*4)						
Total	169,438,539	14,451,806	692,139	184,582,484		

^(*1) Credit grade of corporates are AAA \sim BBB, and consumers are grades 1 \sim 6.

^(*2) Credit grade of corporates are A- \sim BBB, and consumers are grades 1 \sim 6.

^(*3) Credit grade of corporates are BBB- \sim C, and consumers are grades $7 \sim 10$.

^(*4) Financial assets at FVTOCI has been disclosed as the amount before deducting allowance for credit losses because allowance for credit losses does not reduce the carrying amount.

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Decem	ber	31.	. 202	w

	St	tage 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(*2)	Stage 3	Total	Allowance for credit losses Total, net
Loans and other financial assets at amortized							
cost	278,729,012	21,249,885	10,356,251	10,143,839	1,623,276	322,102,263	(1,996,185) 320,106,078
agencies	9,674,891	1,063	52,279	_	_	9,728,233	(2,514) 9,725,719
Banks	19,301,570	105,890	75,876	_	25,598	19,508,934	(15,745) 19,493,189
Corporates	93,889,922	14,873,376	1,890,564	3,860,389	839,234	115,353,485	(1,221,491) 114,131,994
General							
business	61,082,336	9,013,955	1,349,053	2,585,868	576,078	74,607,290	(869,744) 73,737,546
Small- and medium-sized							
enterprise	27,504,992	5,415,312	538,909	1,207,706	227,003	34,893,922	(304,077) 34,589,845
Project financing and							
others	5,302,594	444,109	2,602	66,815	36,153	5,852,273	(47,670) 5,804,603
Consumers	155,862,629	6,269,556	8,337,532	6,283,450	758,444	177,511,611	(756,435) 176,755,176
Securities at amortized							
cost	17,025,405	_	_	_	_	17,025,405	(4,566) 17,020,839
Financial assets at							
FVTOCI(*3)	28,789,281	158,860				28,948,141	(9,631) 28,948,141
Total	324,543,698	21,408,745	10,356,251	10,143,839	1,623,276	368,075,809	(2,010,382) 366,075,058

	December 31, 2020					
		Collatera	l value			
	Stage1	Stage2	Stage3	Total		
Loans and other financial assets at amortized cost	187,731,443	15,677,871	696,709	204,106,023		
Korean treasury and government agencies	19,280		_	19,280		
Banks	1,003,971	_	_	1,003,971		
Corporates	62,817,305	3,963,101	400,340	67,180,746		
General business	35,578,470	2,670,480	271,815	38,520,765		
Small- and medium-sized enterprise	25,404,002	1,290,941	118,265	26,813,208		
Project financing and others	1,834,833	1,680	10,260	1,846,773		
Consumers	123,890,887	11,714,770	296,369	135,902,026		
Securities at amortized cost	_	_	_	_		
Financial assets at FVTOCI(*3)						
Total	187,731,443	15,677,871	696,709	204,106,023		

^(*1) Credit grade of corporates are AAA ~ BBB, and consumers are grades 1 ~ 6.

^(*2) Credit grade of corporates are BBB- \sim C, and consumers are grades $7 \sim 10$.

^(*3) Financial assets at FVTOCI has been disclosed as the amount before deducting allowance for credit losses because allowance for credit losses does not reduce the carrying amount.

b) Guarantees and commitments

The credit quality of the guarantees and loan commitments as of December 31, 2019 and 2020 are as follows (Unit: Korean Won in millions):

	December 31, 2019										
Stag	e 1	Stag	ge 2								
Above appropriate credit rating(*1)			Less than a limited credit rating(*3)	Stage3	Total						
10,952,917	1,333,561	355	223,657	108,427	12,618,917						
97,854,790	3,479,295	1,388,136	906,033	23,420	103,651,674						
108,807,707	4,812,856	1,388,491	1,129,690	131,847	116,270,591						
	Above appropriate credit rating ^(*1) 10,952,917 97,854,790	$ \frac{\text{appropriate }}{\text{credit rating}^{(*1)}} \frac{\text{limited credit }}{\text{rating}^{(*3)}} $ $ 10,952,917 1,333,561 $	Stage 1 Stag Above appropriate credit rating(*1) Less than a limited credit rating(*3) Above appropriate credit rating(*2) 10,952,917 1,333,561 355 97,854,790 3,479,295 1,388,136	Above appropriate credit rating(*1) Less than a limited credit rating(*3) Above appropriate credit rating(*2) Less than a limited credit rating(*3)	Stage 1 Stage 2 Above appropriate credit rating(*1) Less than a limited credit rating(*2) Less than a limited credit rating(*3) Less than a limited credit rating(*3) Stage3 10,952,917 1,333,561 355 223,657 108,427 97,854,790 3,479,295 1,388,136 906,033 23,420						

- (*1) Credit grade of corporates are AAA \sim BBB, and consumers are grades 1 \sim 6.
- (*2) Credit grade of corporates are A- \sim BBB, and consumers are grades 1 \sim 6.
- (*3) Credit grade of corporate are BBB- \sim C, and consumers are grades 7 \sim 10.

	December 31, 2020										
	Stag	e 1	Stag	e 2							
Financial assets	Above appropriate credit rating(*1)	Less than a limited credit rating ^(*2)	Above appropriate credit rating(*1)	Less than a limited credit rating ^(*2)	Stage3	Total					
Off-balance accounts											
Guarantees	10,152,900	1,382,592	11,504	191,962	70,498	11,809,456					
Loan Commitments	105,108,967	4,045,595	1,951,649	977,185	5,284	112,088,680					
Total	115,261,867	5,428,187	1,963,153	1,169,147	75,782	123,898,136					

^(*1) Credit grade of corporates are AAA \sim BBB, and consumers are grades 1 \sim 6.

4) Collateral and other credit enhancements

For the years ended December 31, 2019 and 2020, 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.

- 5) Among financial assets that measured allowance for credit losses at lifetime expected credit losses, amortized costs before changes in contractual cash flows as of December 31, 2019 and 2020 are 18,735 million Won and 265,760 million Won, respectively, with net losses recognized along with the changes 82 million Won and 12,786 million Won, respectively.
- 6) 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, 2019 and 2020 are 9,667,199 million Won and 9,986,186 million Won. In addition, the contractual non-recoverable amount of financial assets amortized for the year ended December 31, 2020, but still in the process of recovery is 390,854 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.

^(*2) Credit grade of corporate are BBB- \sim C, and consumers are grades 7 \sim 10.

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 and measuring its level, and evaluating the appropriateness of the level of accepted market risks.

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 the required capital 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, 2019 and 2020, and the VaR of the Bank as of December 31, 2019 and 2020 are as follows (Unit: Korean Won in millions):

	December 31,		r the year er cember 31, 1		December 31.		For the year ended December 31, 2020			
Risk factor	2019	Average	Maximum	Minimum	2020	Average	Maximum	Minimum		
Interest rate	5,052	3,406	5,725	1,176	6,815	7,959	15,065	2,427		
Stock price	3,730	3,203	5,935	1,146	2,283	5,783	14,394	1,982		
Foreign currencies	5,028	5,033	6,469	4,395	11,160	8,814	11,233	4,613		
Commodity price	_	1	32	_	_	_	_	_		
Diversification	(6,233)	(5,127)	(9,229)	(2,339)	(11,087)	(11,175)	(18,796)	(3,452)		
Total VaR ^(*)	7,577	6,516	8,932	4,378	9,171	11,381	21,896	5,570		

^(*) VaR (Value at Risk): Retention period of 1 day, Maximum expected losses under 99% level of confidence.

b) Non-trading activities

The Bank manages and measures 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) introduced at the end of 2019.

 Δ NII represents a change in net interest income that may occur over a certain period (e.g. one year) due to changes in net interest income, and Δ 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 others.

Subsidiaries other than the Bank measure and manage interest rate risk with interest rates EaR(Earnings at Risk) and VaR(Value at Risk). The interest rate EaR represents the maximum expected change in profit or loss that could occur over a period of time (e.g. one year) due to unfavorable interest rate changes, which shows the maximum reduction scale in net interest. The interest rate VaR represents the maximum expected loss that indicates how unfavorable changes in interest rates can reduce the value of the net asset at any given point in time, now or in the future.

For assets and liabilities as of December 31, 2019 and 2020 that include bank, consolidated trusts and subsidiaries of the bank, details of Δ EVE and Δ NII calculated based on interest rate risk in banking book (IRRBB) are as follows (Unit: Korean Won in millions):

December 31	1, 2019	December 31, 2020			
$\Delta EVE^{(*1)}$	$\Delta N \Pi^{(*2)}$	$\Delta EVE^{(*1)}$	$\Delta NII^{(*2)}$		
490,981	162,023	634,596	66,138		

^(*1) ΔEVE: change in Economic Value of Equity

For the remaining subsidiaries except the bank, consolidated trusts, and consolidated subsidiaries of the bank as of December 31, 2019 and 2020, the interest rate EaR and VaR calculated based on the BIS Framework are as follows (Unit: Korean Won in millions):

	December	31, 2019	Decembe	r 31, 2020
	EaR(*1)	VaR(*2)	EaR(*1)	VaR(*2)
Woori Card Co., Ltd	100,213	85,010	106,645	157,085
Woori Financial Capital Co., Ltd.	_	_	3,701	12,550
Woori Investment Bank Co., Ltd.	7,629	958	1,479	5,005
Woori Asset Trust Co., Ltd.	_	_	3,211	398
Woori Asset Management Corp	256	2,486	64	493
Woori Private Equity Asset Management Co., Ltd	416	80	193	37
Woori Global Asset Management Co., Ltd.	386	84	119	318

^(*1) EaR (Earning at Risk): Change of maximum expected income and expense

^(*2) ΔNII: change in Net Interest Income

^(*2) VaR (Value at Risk): Maximum expected losses

The Group estimates and manages risks related to changes in interest rate due to the difference in the maturities of interest-bearing assets and liabilities and discrepancies in the terms of interest rates. Cash flows (both principal and interest), interest bearing assets and liabilities, presented by each re-pricing date, are as follows (Unit: Korean Won in millions):

	December 31, 2019										
	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	153,023,603	49,505,606	12,505,250	10,506,470	57,582,270	5,209,670	288,332,869				
Financial assets at FVTPL	150,149	23,648	63,825	34,299	131,206	13,347	416,474				
Financial assets at FVTOCI	5,414,586	5,486,113	3,450,669	3,174,893	9,367,756	318,371	27,212,388				
Securities at amortized	, ,	-,,	-,,	-, - ,	- , ,		, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,				
cost	1,844,868	1,696,004	738,383	1,409,549	14,869,227	858,142	21,416,173				
Total	160,433,206	<u>56,711,371</u>	<u>16,758,127</u>	<u>15,125,211</u>	<u>81,950,459</u>	6,399,530	337,377,904				
Liability:											
Deposits due to	116 400 012	45 002 202	22 (02 122	26.740.012	42 175 222	50.205	264.051.606				
customers Borrowings					43,175,232 3,264,861						
Debentures						509,359					
Total											
	Within 3	1 to 6		cember 31, 202		Over 5					
	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				
Asset:			7 to 9	10 to 12	1 to 5		Total				
Loans and other financial assets at			7 to 9	10 to 12	1 to 5		Total				
Loans and other financial assets at amortized	months	months	7 to 9 months	10 to 12 months	1 to 5 years	years					
Loans and other financial assets at	months	months	7 to 9 months	10 to 12 months	1 to 5 years	years					
Loans and other financial assets at amortized cost Financial assets at FVTPL	months	months	7 to 9 months	10 to 12 months	1 to 5 years	years					
Loans and other financial assets at amortized cost Financial assets at FVTPL Financial assets at	months 177,214,415 609,542		7 to 9 months 12,410,513 91,791	10 to 12 months 11,140,520 94,879	1 to 5 years 64,799,854 150,148	years 5,170,572 13,239	324,771,700 1,223,109				
Loans and other financial assets at amortized cost Financial assets at FVTPL Financial assets at FVTOCI	months 177,214,415		7 to 9 months 12,410,513	10 to 12 months 11,140,520 94,879	1 to 5 years 64,799,854 150,148	years 5,170,572	324,771,700				
Loans and other financial assets at amortized cost Financial assets at FVTPL Financial assets at FVTOCI Securities at amortized	months 177,214,415 609,542 4,344,718	months 54,035,826 263,510 3,339,086	7 to 9 months 12,410,513 91,791 3,751,882	10 to 12 months 11,140,520 94,879 2,915,238	1 to 5 years 64,799,854 150,148 14,648,033	years 5,170,572 13,239 473,124	324,771,700 1,223,109 29,472,081				
Loans and other financial assets at amortized cost Financial assets at FVTPL Financial assets at FVTOCI Securities at	months 177,214,415 609,542 4,344,718	months 54,035,826 263,510 3,339,086	7 to 9 months 12,410,513 91,791 3,751,882	10 to 12 months 11,140,520 94,879 2,915,238	1 to 5 years 64,799,854 150,148 14,648,033	years 5,170,572 13,239 473,124	324,771,700 1,223,109 29,472,081				
Loans and other financial assets at amortized cost Financial assets at FVTPL Financial assets at FVTOCI Securities at amortized	months 177,214,415 609,542 4,344,718 1,372,094	months 54,035,826 263,510 3,339,086 1,471,309	7 to 9 months 12,410,513 91,791 3,751,882 933,715	10 to 12 months 11,140,520 94,879 2,915,238 1,869,352	1 to 5 years 64,799,854 150,148 14,648,033 11,080,632	5,170,572 13,239 473,124 1,018,002	324,771,700 1,223,109 29,472,081 17,745,104				
Loans and other financial assets at amortized cost Financial assets at FVTPL Financial assets at FVTOCI Securities at amortized cost Total Liability:	months 177,214,415 609,542 4,344,718 1,372,094	months 54,035,826 263,510 3,339,086 1,471,309	7 to 9 months 12,410,513 91,791 3,751,882 933,715	10 to 12 months 11,140,520 94,879 2,915,238 1,869,352	1 to 5 years 64,799,854 150,148 14,648,033 11,080,632	5,170,572 13,239 473,124 1,018,002	324,771,700 1,223,109 29,472,081 17,745,104				
Loans and other financial assets at amortized cost Financial assets at FVTPL Financial assets at FVTOCI Securities at amortized cost Total Liability: Deposits due to	months 177,214,415 609,542 4,344,718 1,372,094 183,540,769	months 54,035,826 263,510 3,339,086 1,471,309 59,109,731	7 to 9 months 12,410,513 91,791 3,751,882 933,715 17,187,901	10 to 12 months 11,140,520 94,879 2,915,238 1,869,352 16,019,989	1 to 5 years 64,799,854 150,148 14,648,033 11,080,632 90,678,667	5,170,572 13,239 473,124 1,018,002 6,674,937	324,771,700 1,223,109 29,472,081 17,745,104 373,211,994				
Loans and other financial assets at amortized cost Financial assets at FVTPL Financial assets at FVTOCI Securities at amortized cost Total Liability: Deposits due to customers	months 177,214,415 609,542 4,344,718 1,372,094 183,540,769 127,557,303	months 54,035,826 263,510 3,339,086 1,471,309 59,109,731 46,471,099	7 to 9 months 12,410,513 91,791 3,751,882 933,715 17,187,901 35,455,403	10 to 12 months 11,140,520 94,879 2,915,238 1,869,352 16,019,989 29,354,652	1 to 5 years 64,799,854 150,148 14,648,033 11,080,632 90,678,667 52,395,811	5,170,572 13,239 473,124 1,018,002 6,674,937	324,771,700 1,223,109 29,472,081 17,745,104 373,211,994 291,284,923				
Loans and other financial assets at amortized cost Financial assets at FVTPL Financial assets at FVTOCI Securities at amortized cost Total Liability: Deposits due to customers Borrowings	months 177,214,415 609,542 4,344,718 1,372,094 183,540,769 127,557,303 11,223,338	months 54,035,826 263,510 3,339,086 1,471,309 59,109,731 46,471,099 2,832,846	7 to 9 months 12,410,513 91,791 3,751,882 933,715 17,187,901 35,455,403 1,126,728	10 to 12 months 11,140,520 94,879 2,915,238 1,869,352 16,019,989 29,354,652 949,892	1 to 5 years 64,799,854 150,148 14,648,033 11,080,632 90,678,667 52,395,811 3,828,384	5,170,572 13,239 473,124 1,018,002 6,674,937 50,655 452,495	324,771,700 1,223,109 29,472,081 17,745,104 373,211,994 291,284,923 20,413,683				
Loans and other financial assets at amortized cost Financial assets at FVTPL Financial assets at FVTOCI Securities at amortized cost Total Liability: Deposits due to customers	months 177,214,415 609,542 4,344,718 1,372,094 183,540,769 127,557,303 11,223,338 3,246,233	months 54,035,826 263,510 3,339,086 1,471,309 59,109,731 46,471,099 2,832,846 3,396,427	7 to 9 months 12,410,513 91,791 3,751,882 933,715 17,187,901 35,455,403 1,126,728 3,929,346	10 to 12 months 11,140,520 94,879 2,915,238 1,869,352 16,019,989 29,354,652 949,892 3,495,915	1 to 5 years 64,799,854 150,148 14,648,033 11,080,632 90,678,667 52,395,811 3,828,384 21,899,788	5,170,572 13,239 473,124 1,018,002 6,674,937 50,655 452,495 3,257,026	324,771,700 1,223,109 29,472,081 17,745,104 373,211,994 291,284,923 20,413,683 39,224,735				

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, 2019 and 2020 are as follows (Unit: USD in millions, JPY in millions, CNY in millions, EUR in millions, and Korean Won in millions):

	December 31, 2019									
	U	JSD	J	PY	C	NY	E	UR	Others	Total
	Foreign currency	Korean Won equivalent	Foreign currency	Korean Won equivalent	Foreign currency	Korean Won equivalent	Foreign currency	Korean Won equivalent	Korean Won equivalent	Korean Won equivalent
Asset										
Loans and other financial assets at amortized										
cost Financial assets at	22,916	26,531,794	150,462	1,600,140	31,393	5,203,131	2,258	2,929,312	5,272,352	41,536,729
FVTPL Financial assets at	165	190,733	5,322	56,602	25	4,155	105	135,827	64,185	451,502
FVTOCI Securities at amortized	2,679	3,102,752	_	_	2,005	332,319	25	33,017	406,753	3,874,841
cost	319	369,677	_	_	_	_	40	52,139	97,092	518,908
Total	26,079	30,194,956	155,784	1,656,742	33,423	5,539,605	2,428	3,150,295	5,840,382	46,381,980
Liability Financial liabilities										
at FVTPL	251	291,102	4,415	46,957	_	_	68	87,776	83,790	509,625
Deposits due to customers	13,208	15,291,671	166,108	1,766,526	27,739	4,597,467	1,727	2,240,884	3,247,164	27,143,712
Borrowings	6,588	7,627,665	11,061	117,634	16	2,743	515	668.060	499.046	8,915,148
Debentures	3,999	4,629,944		_	_		105	136,230	271,790	5,037,964
Other financial	- /	, ,-						,	,,,,,	- ,,-
liabilities	3,016	3,492,462	11,240	119,529	3,079	510,281	359	466,240	6,906	4,595,418
Total	27,062	31,332,844	192,824	2,050,646	30,834	5,110,491	2,774	3,599,190	4,108,696	46,201,867
Off-balance accounts	7,030	8,139,395	34,316	364,946	4,525	749,973	560	726,323	634,870	10,615,507

	December 31, 2020									
	U	ISD	J	PY	C	NY	E	UR	Others	Total
	Foreign currency	Korean Won equivalent	Foreign currency	Korean Won equivalent	Foreign currency	Korean Won equivalent	Foreign currency	Korean Won equivalent	Korean Won equivalent	Korean Won equivalent
Asset Cash and cash equivalents Loans and other financial assets at amortized	5,584	6,074,879	22,832	240,710	4,580	764,686	115	154,154	501,900	7,736,329
cost Financial assets at	21,687	23,595,957	172,782	1,821,554	24,230	4,045,435	2,001	2,678,382	4,857,438	36,998,766
FVTPL	280	304,146	18,855	198,781	73	11,989	248	332,182	88,745	935,843
Financial assets at FVTOCI Securities at	2,741	2,981,832	_	_	2,601	434,258	37	49,789	565,893	4,031,772
amortized	210	245.550					2.4	45 105	115 524	500 201
cost	319	347,570					34	45,197	115,534	508,301
Total	30,611	33,304,384	214,469	2,261,045	31,484	5,256,368	2,435	3,259,704	6,129,510	50,211,011
Liability										
Financial liabilities at FVTPL	426	463,678	14,493	152,792	_	_	158	211,525	115,429	943,424
Deposits due to customers	16,664	18,130,448	220,153	2,320,983	26,733	4,463,300	1,532	2,050,400	3,443,631	30,408,762
Borrowings	5,657	6,154,464	48,446	510,750	_	_	590	789,955	697,234	8,152,403
Debentures	3,973	4,322,800	_	_	_	_	_	_	444,711	4,767,511
Other financial liabilities	2,381	2,590,147	6,705	70,690	1,853	309,319	64	85,553	193,128	3,248,837
Total	29,101	31,661,537	289,797	3,055,215	28,586	4,772,619	2,344	3,137,433	4,894,133	47,520,937
Off-balance accounts	7,441	8,095,297	24,992	263,478	3,007	502,106	533	712,846	556,988	10,130,715

(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 the use of funds (assets) and sources of funds (liabilities) or unexpected cash outflows. The 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.

- 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, 2019 and 2020 are as follows (Unit: Korean Won in millions):

	December 31, 2019									
	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	115,156	_			_		115,156			
Deposits due to										
customers	166,474,535	36,697,168	24,634,859	31,233,844	6,590,119	1,877,594	267,508,119			
Borrowings	8,596,202	2,948,384	2,162,846	1,880,424	3,682,214	520,936	19,791,006			
Debentures	2,378,211	2,894,577	3,330,658	2,466,142	19,211,409	2,537,391	32,818,388			
Lease liabilities	46,072	42,549	37,420	35,210	232,985	40,698	434,934			
Other financial										
liabilities	11,242,367	60,981	119,633	10,344	71,561	2,660,640	14,165,526			
Total	<u>188,852,543</u>	<u>42,643,659</u>	30,285,416	35,625,964	<u>29,788,288</u>	7,637,259	334,833,129			
				ecember 31, 2020						
			De	cember 31, 202	20					
	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					
	months	months	7 to 9 months	10 to 12 months	1 to 5					
FVTPL	64,183	months 135,232	7 to 9 months 42,418	10 to 12 months 112,102	1 to 5 years		353,935			
FVTPL	64,183 191,660,253	135,232 34,349,298	7 to 9 months 42,418	10 to 12 months 112,102	1 to 5 years	5 years	353,935			
FVTPL	64,183 191,660,253 10,159,819	months 135,232 34,349,298 2,524,572	7 to 9 months 42,418 25,213,410	10 to 12 months 112,102 31,144,452 1,866,810	1 to 5 years — 9,230,904	5 years 1,793,143 463,376	353,935 293,391,460 20,906,701			
FVTPL	64,183 191,660,253 10,159,819	months 135,232 34,349,298 2,524,572	7 to 9 months 42,418 25,213,410 1,714,490	10 to 12 months 112,102 31,144,452 1,866,810	1 to 5 years 	5 years 1,793,143 463,376 3,257,228	353,935 293,391,460 20,906,701			
FVTPL	months 64,183 191,660,253 10,159,819 3,246,233	months 135,232 34,349,298 2,524,572 3,396,427	7 to 9 months 42,418 25,213,410 1,714,490 3,929,346	10 to 12 months 112,102 31,144,452 1,866,810 3,495,915	1 to 5 years 9,230,904 4,177,634 21,899,788	5 years 1,793,143 463,376 3,257,228	353,935 293,391,460 20,906,701 39,224,937			
FVTPL	months 64,183 191,660,253 10,159,819 3,246,233 53,429	months 135,232 34,349,298 2,524,572 3,396,427 44,551	7 to 9 months 42,418 25,213,410 1,714,490 3,929,346	10 to 12 months 112,102 31,144,452 1,866,810 3,495,915 34,761	1 to 5 years 9,230,904 4,177,634 21,899,788 201,113	5 years 1,793,143 463,376 3,257,228	353,935 293,391,460 20,906,701 39,224,937			

b) Cash flows of principals and interests by expected maturities of non-derivative financial liabilities as of December 31, 2019 and 2020 are as follows (Unit: Korean Won in millions):

		December 31, 2019									
	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	115,156	_		_	_	_	115,156				
Deposits due to											
customers	175,309,271	38,219,793	23,649,424	24,102,750	5,547,232	150,233	266,978,703				
Borrowings	8,596,202	2,948,384	2,162,846	1,880,424	3,682,214	520,936	19,791,006				
Debentures	2,378,211	2,894,577	3,330,658	2,466,142	19,211,409	2,537,391	32,818,388				
Lease liabilities	46,072	42,549	37,420	35,210	232,985	40,698	434,934				
Other financial											
liabilities	11,242,367	60,981	119,633	10,344	71,561	2,660,640	14,165,526				
Total	197,687,279	44,166,284	29,299,981	28,494,870	<u>28,745,401</u>	5,909,898	334,303,713				

December 31, 2020							
Within 3 months	4 to 6 months	7 to 9 months	10 to 12 months	1 to 5 years	Over 5 years	Total	
68,909	131,496	41,428	112,102		_	353,935	
199,931,480	35,912,096	23,924,403	25,477,917	7,582,278	105,413	292,933,587	
10,159,819	2,524,572	1,714,490	1,866,810	4,177,634	463,376	20,906,701	
3,246,233	3,396,427	3,929,346	3,495,915	21,899,788	3,257,228	39,224,937	
53,429	44,894	40,949	35,074	208,125	36,950	419,421	
8,121,978	70,277	10,294	10,897	451,096	2,142,772	10,807,314	
221,581,848	42,079,762	29,660,910	30,998,715	34,318,921	6,005,739	364,645,895	
	months 68,909 199,931,480 10,159,819 3,246,233 53,429 8,121,978	months months 68,909 131,496 199,931,480 35,912,096 10,159,819 2,524,572 3,246,233 3,396,427 53,429 44,894 8,121,978 70,277	Within 3 months 4 to 6 months 7 to 9 months 68,909 131,496 41,428 199,931,480 35,912,096 23,924,403 10,159,819 2,524,572 1,714,490 3,246,233 3,396,427 3,929,346 53,429 44,894 40,949 8,121,978 70,277 10,294	Within 3 months 4 to 6 months 7 to 9 months 10 to 12 months 68,909 131,496 41,428 112,102 199,931,480 35,912,096 23,924,403 25,477,917 10,159,819 2,524,572 1,714,490 1,866,810 3,246,233 3,396,427 3,929,346 3,495,915 53,429 44,894 40,949 35,074 8,121,978 70,277 10,294 10,897	Within 3 months 4 to 6 months 7 to 9 months 10 to 12 months 1 to 5 years 68,909 131,496 41,428 112,102 — 199,931,480 35,912,096 23,924,403 25,477,917 7,582,278 10,159,819 2,524,572 1,714,490 1,866,810 4,177,634 3,246,233 3,396,427 3,929,346 3,495,915 21,899,788 53,429 44,894 40,949 35,074 208,125 8,121,978 70,277 10,294 10,897 451,096	Within 3 months 4 to 6 months 7 to 9 months 10 to 12 months 1 to 5 years Over 5 years 68,909 131,496 41,428 112,102 — — 199,931,480 35,912,096 23,924,403 25,477,917 7,582,278 105,413 10,159,819 2,524,572 1,714,490 1,866,810 4,177,634 463,376 3,246,233 3,396,427 3,929,346 3,495,915 21,899,788 3,257,228 53,429 44,894 40,949 35,074 208,125 36,950	

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, 2019 and 2020 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	1,839	(341)	(298)	(247)	6,249	_	7,202
2019	Trading purpose	2,843,195	_	_	_	_	_	2,843,195
December 31,	Cash flow risk hedge	2,655	6,004	515	239	55,744	_	65,157
2020	Fair value risk hedge	255	(302)	233	(287)	126	_	25
	Trading purpose	6,460,472		_	_		_	6,460,472

4) Maturity analysis of off-balance accounts (Guarantees loan commitments and others)

A financial 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. Commitments to lend 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 financial guarantees, such as guarantees for debentures issued or loans, unused loan commitments, and other guarantees, 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 are as follows (Unit: Korean Won in millions):

	December 31, 2019	December 31, 2020
Guarantees	12,618,917	11,809,456
Loan commitments	103,651,674	112,088,680
Other commitments	3,411,334	4,912,690

(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 method. 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 published by Basel III Committee on Banking Supervision in Bank for International Settlement in 2010 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 new minimum requirements: Tier 1 common capital ratio of 7.0% and 8.0%, a Tier 1 capital ratio of 8.5% and 9.5%, and a minimum total capital ratio of 10.5% and 11.5% as of December 31, 2019 and 2020.

The risk management committee of the Group determines the risk appetite of the Group, allocates internal capital by risk type and major subsidiaries, and the major subsidiaries operate the capital efficiently within the allocated internal capital. The risk management department of the Group monitors internal capital limit management and reports it to the management and risk management committees. If internal capital is expected to exceed the limit due to new business or expansion of operations, the capital adequacy of the Group is managed by taking a preliminary review and approval process by the Risk Management Committee.

Details of the Group's capital adequacy ratio as of December 31, 2019 and 2020 are as follows (Unit: Korean Won in millions):

Details	December 31, 2019	December 31, 2020
Tier 1 capital	19,135,300	19,828,094
Other Tier 1 capital	3,340,252	3,533,648
Tier 2 capital	4,639,519	4,086,035
Total risk-adjusted capital	27,115,071	27,447,777
Risk-weighted assets for credit risk	209,802,895	178,114,590
Risk-weighted assets for market risk	5,586,757	6,086,905
Risk-weighted assets for operational risk	12,656,301	14,067,185
Total risk-weighted assets	228,045,953	198,268,680
Common Equity Tier 1 ratio	8.39%	10.00%
Tier 1 capital ratio	9.86%	11.78%
Total capital ratio	11.89%	13.84%

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 year, 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, investment banking and other sectors, and the composition of such reporting segments was divided based on internal report data periodically reviewed by the CODM 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 Woori Bank and overseas subsidiaries' customers
Credit card	Credit card, cash services, card loans and relevant work of Woori Card 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 Financial Capital Co., Ltd., Woori Asset Trust Co., Ltd., Woori Asset Management Corp., Ltd., 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, 2018, 2019 and 2020 are as follows (Unit: Korean Won in millions):

			For the yea	r ended Dec	ember 31, 201	8(*1)	
	Banking	Credit card	Investment banking	Others(*2)	Sub-total	Adjustments(*3)	Total
Net Interest income	4,453,511	509,999	43,081	1,142	5,007,732	643,219	5,650,951
Non-interest income							
(expense)	1,517,141	59,971	19,814	297,196	1,894,122	(832,165)	1,061,957
Impairment losses due to credit							
loss	4,913	(227,144)	(3,898)	(166)	(226,296)	(103,278)	(329,574)
General and administrative							
expense(*4)	(3,416,320)	(170,765)	(26,081)	(292,826)	(3,905,993)	281,960	(3,624,033)
Net operating income							
(expense)	2,559,245	172,060	32,915	5,345	2,769,565	(10,264)	2,759,301
Non-operating income							
(expense)	69,897	(5,547)	(295)	199	64,255	(18,684)	45,571
Net income (expense) before							
tax	2,629,142	166,513	32,621	5,545	2,833,821	(28,949)	2,804,872
Tax income (expense)	(713,178)	(39,979)	743	(2,238)	(754,651)	1,428	(753,223)
Net income (loss)	1,915,964	126,534	33,364	3,307	2,079,169	(27,520)	2,051,649

^(*1) For comparative display, the category information of each customer from the previous term has been reclassified to profit or loss by operating segment according to the organization.

^(*2) Other subsidiaries include gains and losses from Woori FIS Co., Ltd., Woori Finance Research Co., Ltd., Woori Credit Information Co., Ltd., Woori Fund Service Inc. and Woori Private Equity Asset Management Co., Ltd.

- (*3) Adjustments were made for the presentation of profit or loss in accordance with the Accounting Standards from the reporting segments in accordance with the Managerial Accounting Standards.
- (*4) Depreciation and amortization 216,735 million Won are included in General and administrative expense. There are the Banking (177,882 million Won), Credit card (11,477 million Won), Investment banking (977 million Won), others (26,398 million Won) of which total bis and adjustments (1 million Won), respectively.

			For the ye	ar ended Dece	mber 31, 2019		
	Banking	Credit card	Investment banking	Others(*1)	Sub-total	Adjustments(*2)	Total
Net Interest income	4,583,386	553,956	54,077	2,290	5,193,709	699,997	5,893,706
Non-interest income (expense)	1,557,247	31,842	33,539	957,880	2,580,508	(1,533,917)	1,046,591
to credit loss	(32,621)	(259,604)	(572)	(538)	(293,335)	(80,909)	(374,244)
General and administrative expense	(3,478,535)		. ,	(323,528)	, , ,	257,231	(3,766,077)
Net operating income (expense)	, , , ,	136,132	55,861	636,104	3,457,574	(657,598)	2,799,976
Non-operating income (expense)	(151,348)	13,889	(3,501)	(1,545)	(142,505)	65,578	(76,927)
Net income (expense) before tax	2,478,129	150,021	52,360	634,559	3,315,069	(592,020)	2,723,049
(expense)	(616,110)	(35,825)	998	(1,294)	(652,231)	(33,222)	(685,453)
Net income (loss)	1,862,019	114,196	53,358	633,265	2,662,838	(625,242)	2,037,596
Total assets Total liabilities							361,980,724 336,488,392

^(*1) Other segments include gains and losses from Woori Financial Group Inc., 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.,

^(*2) Adjustments were made for the presentation of profit or loss in accordance with the Accounting Standards from the reporting segments in accordance with the Managerial Accounting Standards.

		For the year ended December 31, 2020							
	Banking	Credit card	Investment banking	Others(*1)	Sub-total	Adjustments(*2)	Total		
Net Interest income	4,545,155	564,461	78,302	69,188	5,257,106	741,406	5,998,512		
Non-interest income (expense)	1,423,286	3,648	34,497	1,071,852	2,533,283	(1,710,849)	822,434		
Impairment losses due									
to credit loss	(512,008)	(195,816)	(4,146)	(43,660)	(755,630)	(28,741)	(784,371)		
General and administrative									
expense	(3,545,186)	(207,301)	(39,039)	(416,595)	(4,208,121)	251,940	(3,956,181)		
Net operating income (expense)	1,911,247	164,992	69,614	680,785	2,826,638	(746,244)	2,080,394		
Non-operating income									
(expense)	(57,027)	(5,569)	(775)	771	(62,600)	(16,543)	(79,143)		
Net income (expense) before tax	1,854,220	159,423	68,839	681,556	2,764,038	(762,787)	2,001,251		
Tax income									
(expense)	(437,288)	(39,193)	(5,902)	(29,372)	(511,755)	25,753	(486,002)		
Net income (loss)	1,416,932	120,230	62,937	652,184	2,252,283	(737,034)	1,515,249		
Total assets	374,120,064	11,366,596	4,332,474	31,872,690	421,691,824	(22,610,807)	399,081,017		
Total liabilities	348,706,682	9,312,986	3,803,594	9,606,742	371,430,004	925,168	372,355,172		

^(*1) 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..

(3) Operating profit or loss from external customers for the years ended December 31, 2018, 2019 and 2020 are as follows (Unit: Korean Won in millions):

	For the years ended December 31			
<u>Details</u>	2018	2019	2020	
Domestic	2,505,813	2,500,504	1,869,516	
Foreign	253,488	299,472	210,878	
Total	2,759,301	2,799,976	2,080,394	

(4) Major non-current assets as of December 31, 2019 and 2020 are as follows (Unit: Korean Won in millions):

Details ^(*)	December 31, 2019(*)	December 31, 2020(*)
Domestic	4,908,141	5,026,161
Foreign	387,284	433,869
Total	5,295,425	5,460,030

^(*) Major non-current assets included investments in joint ventures and associates, investment properties, property, plant and equipment, intangible assets and etc.

^(*2) Adjustments were made for the presentation of profit or loss in accordance with the Accounting Standards from the reporting segments in accordance with the Managerial Accounting Standards.

(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, 2019 and 2020.

6. STATEMENTS OF CASH FLOWS

(1) Details of cash and cash equivalents are as follows (Unit: Korean Won in millions):

	December 31, 2019	December 31, 2020
Cash	1,957,997	1,611,282
Foreign currencies	625,999	514,565
Demand deposits	3,684,044	7,314,353
Fixed deposits	124,526	550,783
Total	6,392,566	9,990,983

(2) 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		
	2018	2019	2020
Changes in other comprehensive income related to valuation of financial assets at FVTOCI	2,505	(14,141)	59,360
Changes in other comprehensive income related to valuation of equity method investments	2,958	613	(2,298)
Changes in other comprehensive income related to valuation loss on cash flow hedge	(4,646)	(1,823)	4,420
Changes in financial assets measure at FVTOCI due to debt-for-equity swap	14,378	96,527	3,575
Changes in the investment assets of associates due to the transfer of assets held-for-sale	(89,151)	651	(50,411)
Changes in financial assets at FVTPL and assets held-for-sale	_		(2,385)
Transfer of investment properties and premises and equipment		166,892	30,431
Transfer from property, plant and equipment to assets held for sale	6,243	(95)	
Changes in account payables related to intangible assets	_	29,705	(11,639)
Changes in right-of-use assets and lease liabilities		692,103	222,587
Comprehensive stock exchange	_	581,609	
Changes in equity related to assets held for sale	(4,145)	_	
Changes in unpaid dividends on hybrid equity securities	3,569	_	_

(3) 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, 2019						
			Not i	nvolving cash i	nflows and outfl	ows	
	Beginning balance	Cash flow	Foreign Exchange	Variation of gains on valuation of hedged items	Business Combination	Others	Ending balance
Borrowings	16,202,986	3,081,757	(285,607)	_		(216)	18,998,920
Debentures	28,735,862	1,858,763	155,433	85,984	_	22,013	30,858,055
Lease liabilities $(*)$	377,030	(217,867)	(819)		5,552	255,149	419,045
Total	<u>45,315,878</u>	4,722,653	<u>(130,993)</u>	85,984	5,552	<u>276,946</u>	50,276,020

^(*) The amount of lease liability at the beginning of the current in applying IFRS 16 is reflected.

For the year ended December 31, 2020

			Not i	Not involving cash inflows and outflows					
	Beginning balance	Cash flow	Foreign Exchange	Variation of gains on valuation of hedged items	Business Combination	Others(*)	Ending balance		
Borrowings	18,998,920	2,033,851	(586,215)		298,854	56	20,745,466		
Debentures	30,858,055	913,836	(290,041)	58,861	5,980,746	(42,099)	37,479,358		
Lease liabilities	419,045	(204,794)	(5,141)		3,751	194,570	407,431		
Other liabilities	23,909	3,971				(1,526)	26,354		
Total	50,299,929	2,746,864	(881,397) ====================================	58,861	6,283,351	<u>151,001</u>	58,658,609		

^(*) The change in lease liabilities due to the new contract includes 231,325 million Won.

7. FINANCIAL ASSETS AT FVTPL

(1) Details of financial assets at FVTPL as of December 31, 2019 and 2020 are as follows (Unit: Korean Won in millions):

	December 31, 2019	December 31, 2020
Financial assets at fair value through profit or loss measured at fair value	8,069,144	14,762,941

(2) Financial assets at fair value through profit or loss measured at fair value as of December 31, 2019 and 2020 are as follows (Unit: Korean Won in millions):

	December 31, 2019	December 31, 2020
Deposits:		
Gold banking asset	27,901	48,796
Securities:		
Debt securities		
Korean treasury and government agencies	872,954	1,020,418
Financial institutions	600,303	873,031
Corporates	762,265	761,681
Others	101,563	231,967
Equity securities	688,350	570,772
Capital contributions	515,199	865,685
Beneficiary certificates	1,366,233	2,812,558
Sub-total	4,906,867	7,136,112
Loans	212,473	676,291
Derivatives assets	2,921,903	6,901,742
Total	8,069,144	14,762,941

The Group does not have financial assets at fair value through profit or loss designated as upon initial recognition as of December 31, 2019 and 2020.

8. FINANCIAL ASSETS AT FVTOCI

(1) Details of financial assets at FVTOCI as of December 31, 2019 and 2020 are as follows (Unit: Korean Won in millions):

	December 31, 2019	December 31, 2020
Debt securities:		
Korean treasury and government agencies	1,152,711	2,922,671
Financial institutions	17,769,924	17,996,660
Corporates	3,917,004	3,896,744
Bond denominated in foreign currencies	3,874,785	4,031,721
Securities loaned	80,737	100,345
Sub-total	26,795,161	28,948,141
Equity securities	935,370	1,080,788
Total	27,730,531	30,028,929

(2) Details of equity securities designated as financial assets at FVTOCI as of December 31, 2019 and 2020 are as follows (Unit: Korean Won in millions):

Purpose of acquisition	December 31, 2019	December 31, 2020	Remarks
Investment for strategic business partnership purpose	678,846	778,657	
Debt-equity swap	256,480	302,090	
Others	44	41	Cooperative insurance, etc.
Total	935,370	1,080,788	

(3) Changes in the allowance for credit losses 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, 2018				
	Stage 1	Stage 2	Stage 3	Total	
Beginning balance	(4,107)	(129)	_	(4,236)	
Transfer to 12-month expected credit losses	_	_	_	_	
Transfer to lifetime expected credit losses	_	_	_	_	
Transfer to credit-impaired financial assets	_	_	_	_	
Net provision of allowance for credit losses	(1,918)	(109)	_	(2,027)	
Others ^(*)	86			86	
Ending balance	<u>(5,939)</u>	(238)		<u>(6,177)</u>	

^(*) Changes due to foreign currencies translation, etc.

	For the year ended December 31, 2019					
	Stage 1	Stage 2	Stage 3	Total		
Beginning balance	(5,939)	(238)	_	(6,177)		
Transfer to 12-month expected credit losses	_	_	_	_		
Transfer to lifetime expected credit losses	_	_	_	_		
Transfer to credit-impaired financial assets		_		_		
Net provision of allowance for credit losses	(3,297)	_	_	(3,297)		
Disposal	615	238	_	853		
Others ^(*)	52			52		
Ending balance	(8,569)			(8,569)		

(*) Changes due to foreign currencies translation, etc.

	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 allowance for credit losses	(1,529)	_	_	(1,529)	
Disposal	764	_	_	764	
Others ^(*)	(297)			(297)	
Ending balance	<u>(9,631)</u>			<u>(9,631)</u>	

^(*) Changes due to foreign currencies translation, etc.

2) Gross carrying amount

	For the year ended December 31, 2018						
	Stage 1	Stage 2	Stage 3	Total			
Beginning balance	12,843,997	30,212	_	12,874,209			
Transfer to 12-month expected credit losses	_	_	_	_			
Transfer to lifetime expected credit losses	_	_	_	_			
Transfer to credit-impaired financial assets	_	_	_	_			
Acquisition	13,275,429	10,000	_	13,285,429			
Disposal / Recovery	(9,146,307)	(15,047)	_	(9,161,354)			
Gain (loss) on valuation	70,017	(59)	_	69,958			
Amortization based on effective interest method	10,195	47	_	10,242			
Others ^(*)	33,765			33,765			
Ending balance	17,087,096	25,153		17,112,249			

^(*) Changes due to foreign currencies translation, etc.

	For the year ended December 31, 2019					
	Stage 1	Stage 2	Stage 3	Total		
Beginning balance	17,087,096	25,153	_	17,112,249		
Transfer to 12-month expected credit losses	_	_	_	_		
Transfer to lifetime expected credit losses		_	_			
Transfer to credit-impaired financial assets		_	_			
Acquisition	23,774,375	_	_	23,774,375		
Disposal / Recovery	(14,224,358)	(25,000)	_	(14,249,358)		
Gain (loss) on valuation	48,956	(153)	_	48,803		
Amortization based on effective interest method	14,629	_	_	14,629		
Business combination	24,985	_	_	24,985		
Others ^(*)	69,478			69,478		
Ending balance	26,795,161			26,795,161		

^(*) Changes due to foreign currencies translation, etc.

	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		

^(*) Changes due to foreign currencies translation, etc.

9. SECURITIES AT AMORTIZED COST

(1) Details of securities at amortized cost as of December 31, 2019 and 2020 are as follows (Unit: Korean Won in millions):

	December 31, 2019	December 31, 2020
Korean treasury and government agencies	8,044,040	6,947,495
Financial institutions	6,694,614	4,843,534
Corporates	5,068,489	4,726,075
Bond denominated in foreign currencies	518,907	508,301
Allowance for credit losses	(5,511)	(4,566)
Total	20,320,539	17,020,839

⁽⁴⁾ During the year ended December 31, 2019 and 2020, 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 34,841 million Won and 2,848 million Won, respectively and cumulative losses at disposal dates were 38,995 million Won and 3,665 million Won, respectively.

(2) Changes in the allowance for credit losses and gross carrying amount of securities at amortized cost are as follows (Unit: Korean Won in millions):

1) Allowance for credit losses

	For the year ended December 31, 2018			31, 2018
	Stage 1	Stage 2	Stage 3	Total
Beginning balance	(5,078)	_	_	(5,078)
Transfer to 12-month expected credit losses	_	_	_	_
Transfer to lifetime expected credit losses	_	_	_	_
Transfer to credit-impaired financial assets	_	_	_	_
Net provision of allowance for credit losses	(1,922)	_	_	(1,922)
Disposal	22	_	_	22
Others ^(*)	54			54
Ending balance	<u>(6,924)</u>			<u>(6,924)</u>

(*) Changes due to foreign currencies translation, etc.

	For the year ended December 31, 2019			
	Stage 1	Stage 2	Stage 3	Total
Beginning balance	(6,924)	—	_	(6,924)
Transfer to 12-month expected credit losses	_	_	_	_
Transfer to lifetime expected credit losses	_	_	_	_
Transfer to credit-impaired financial assets	_	_	_	_
Net reversal of allowance for credit losses	1,415	_	_	1,415
Others ^(*)	(2)			(2)
Ending balance	<u>(5,511)</u>			<u>(5,511)</u>

(*) Changes due to foreign currencies translation, etc.

	For the y	For the year ended December 31, 20		
	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 allowance for credit losses	934	_	_	934
Others ^(*)	11			11
Ending balance	<u>(4,566)</u>			<u>(4,566)</u>

^(*) Changes due to foreign currencies translation, etc.

2) Gross carrying amount

, , , ,	For the year ended December 31, 2018			
	Stage 1	Stage 2	Stage 3	Total
Beginning balance	16,749,296		<u>~g</u>	16,749,296
Transfer to 12-month expected credit losses	10,747,270	_	_	
Transfer to lifetime expected credit losses	_	_	_	_
Transfer to credit-impaired financial assets	_	_	_	_
Acquisition	15,622,847	_	_	15,622,847
Disposal / Recovery	(9,426,757)	_	_	(9,426,757)
Amortization based on effective interest method	(7,970)	_	_	(7,970)
Others(*)	2,068	_	_	2,068
Ending balance	22,939,484			22,939,484
(*) Changes due to foreign currencies translation, etc.				
	For the y	ear ended	December	31, 2019
	Stage 1	Stage 2	Stage 3	Total
Beginning balance	22,939,484	_	_	22,939,484
Transfer to 12-month expected credit losses	_	_	—	_
Transfer to lifetime expected credit losses	_	_	_	_
Transfer to credit-impaired financial assets	_	_	_	_
Acquisition	6,092,078	_	_	6,092,078
Disposal / Recovery	(8,709,947)	_	—	(8,709,947)
Amortization based on effective interest method	(3,286)	_	—	(3,286)
Others(*)	7,721			7,721
Ending balance	20,326,050			20,326,050
(*) Changes due to foreign currencies translation, etc.				
(*) Changes due to foreign currencies translation, etc.				
			December	
	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)
method	(396)			(396)
Others(*)	(21,332)	_		(21,332)
Ending balance	17,025,405			17,025,405

^(*) 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, 2019 and 2020 are as follows (Unit: Korean Won in millions):

	December 31, 2019	December 31, 2020
Due from banks	14,492,223	9,863,160
Loans	271,032,244	302,794,182
Other financial assets	8,193,226	7,448,736
Total	293,717,693	320,106,078
(2) Details of due from banks are as follows (Unit: Korean Won in millions):	December 31, 2019	December 31, 2020
Due from banks in local currency:		
Due from The Bank of Korea ("BOK")	11,028,850	6,519,226
Due from depository banks	82,509	84,195
Due from non-depository institutions	378	266
Due from the Korea Exchange	50,113	227
Others	43,253	172,914
Allowance for credit losses	(2,865)	(1,576)
Sub-total	11,202,238	6,775,252
Due from banks in foreign currencies:		
Due from banks on demand	1,122,521	1,608,126
Due from banks on time	1,296,842	296,489
Others	872,617	1,186,083
Allowance for credit losses	(1,995)	(2,790)
Sub-total	3,289,985	3,087,908
Total	14,492,223	9.863,160

(3) Details of restricted due from banks are as follows (Unit: Korean Won in millions):

	Counterparty	December 31, 2019	Reason of restriction
Due from banks in local currency:			
Due from BOK	The BOK	11,028,850	Reserve deposits under the BOK Act
Due from KSFC	Korea Securities Finance		
	Corp. and others	50,113	Customer's deposit reserve and others
Others	The Korea Exchange and		
	others	41,645	Central counterparty KRW margin and others
	Sub-total	11,120,608	
Due from banks in foreign currencies:			
Due from banks on demand	The BOK and others	1,103,917	Reserve deposits under the BOK
			Act and others
Due from banks on time	National Bank Cambodia	58	Reserve deposits and others
Others	Korea Investment &	972 (02	Occurred fortunes and antique
	Securities and others	872,603	Overseas futures and options trade deposits and others
	Sub-total	1,976,578	
	Total	13,097,186	
		December 31,	
	Counterparty	December 31, 2020	Reason of restriction
Due from banks in local currency:		2020	
Due from BOK	The BOK	6,519,226	Reserve deposits under the BOK Act
•		6,519,226	Reserve deposits under the BOK
Due from BOK Due from KSFC	The BOK	6,519,226 227	Reserve deposits under the BOK Act
Due from BOK Due from KSFC	The BOK	2020 6,519,226 227 89,562	Reserve deposits under the BOK Act Futures trading margin Guarantees, mortgage of domestic exchange
Due from BOK Due from KSFC Others Due from banks in foreign	The BOK	2020 6,519,226 227 89,562	Reserve deposits under the BOK Act Futures trading margin Guarantees, mortgage of domestic exchange
Due from BOK Due from KSFC Others	The BOK	2020 6,519,226 227 89,562 6,609,015	Reserve deposits under the BOK Act Futures trading margin Guarantees, mortgage of domestic exchange transactions and others Reserve deposits under the BOK
Due from BOK Due from KSFC Others Due from banks in foreign currencies: Due from banks on demand Due from banks on time	The BOK KB Securities Co. Ltd Korea Federation of Savings Banks and others Sub-total The BOK and others National Bank Cambodia	2020 6,519,226 227 89,562 6,609,015	Reserve deposits under the BOK Act Futures trading margin Guarantees, mortgage of domestic exchange transactions and others
Due from BOK Due from KSFC Others Due from banks in foreign currencies: Due from banks on demand	The BOK	2020 6,519,226 227 89,562 6,609,015 1,544,492 54	Reserve deposits under the BOK Act Futures trading margin Guarantees, mortgage of domestic exchange transactions and others Reserve deposits under the 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	The BOK	6,519,226 227 89,562 6,609,015 1,544,492 54 1,180,570	Reserve deposits under the BOK Act Futures trading margin Guarantees, mortgage of domestic exchange transactions and others Reserve deposits under the 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	The BOK	2020 6,519,226 227 89,562 6,609,015 1,544,492 54 1,180,570 2,725,116	Reserve deposits under the BOK Act Futures trading margin Guarantees, mortgage of domestic exchange transactions and others Reserve deposits under the 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, 2018			
	Stage 1	Stage 2	Stage 3	Total
Beginning balance	(3,092)			(3,092)
Transfer to 12-month expected credit losses	_	_	_	_
Transfer to lifetime expected credit losses	_	_	_	_
Transfer to credit-impaired financial assets	_	_	_	_
Net provision of allowance for credit losses	(2,219)	_	_	(2,219)
Others ^(*)	(76)			(76)
Ending balance	(5,387)			(5,387)

(*) Changes due to foreign currencies translation, etc.

	For the year ended December 31, 2019			
	Stage 1	Stage 2	Stage 3	Total
Beginning balance	(5,387)	_	_	(5,387)
Transfer to 12-month expected credit losses	_	_	_	_
Transfer to lifetime expected credit losses	_	_	_	_
Transfer to credit-impaired financial assets	_	_	_	_
Reversal for allowance for credit loss	544	_	_	544
Others ^(*)	(17)			(17)
Ending balance	(4,860)			(4,860)

(*) Changes due to foreign currencies translation, etc.

	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 for allowance for credit loss	315	_	_	315
Others ^(*)	179			179
Ending balance	(4,366)			(4,366)

(*) Changes due to foreign currencies translation, etc.

2) Gross carrying amount

	For the year ended December 31, 2018			
	Stage 1	Stage 2	Stage 3	Total
Beginning balance	8,870,835		_	8,870,835
Transfer to 12-month expected credit losses	_	_		_
Transfer to lifetime expected credit losses				
Transfer to credit-impaired financial assets	_	_		_
Net increase	5,302,244	_		5,302,244
Others(*)	(16,680)			(16,680)
Ending balance	14,156,399			14,156,399

(*) Changes due to foreign currencies translation, etc.

	For the year ended December 31, 2019				
	Stage 1	Stage 2	Stage 3	Total	
Beginning balance	14,156,399	_	_	14,156,399	
Transfer to 12-month expected credit losses	_		_		
Transfer to lifetime expected credit losses	_	_		_	
Transfer to credit-impaired financial assets	_	_	_	_	
Net increase	313,991		_	313,991	
Business combination	35,910	_	_	35,910	
Others ^(*)	(9,217)			(9,217)	
Ending balance	14,497,083			14,497,083	

(*) Changes due to foreign currencies translation, etc.

	For the year ended December 31, 2020				
	Stage 1	Stage 2	Stage 3	Total	
Beginning balance	14,497,083	_		14,497,083	
Transfer to 12-month expected credit losses	_	_	_		
Transfer to lifetime expected credit losses	_	_	_		
Transfer to credit-impaired financial assets	_		_	_	
Net decrease	(4,759,053)	_	_	(4,759,053)	
Business combination	129,825	_	_	129,825	
Others ^(*)	(329)			(329)	
Ending balance	9,867,526			9,867,526	

^(*) Changes due to foreign currencies translation, etc.

(5) Details of loans are as follows (Unit: Korean Won in millions):

	December 31, 2019	December 31, 2020
Loans in local currency	221,484,049	249,264,947
Loans in foreign currencies ^(*)	18,534,270	20,025,092
Domestic banker's usance	2,899,651	2,240,830
Credit card accounts	8,398,605	8,542,619
Bills bought in foreign currencies	4,772,093	5,763,427
Bills bought in local currency	61,362	133,650
Factoring receivables	20,905	38,017
Advances for customers on guarantees	12,616	31,300
Private placement bonds	307,339	353,585
Securitized loans	2,250,042	2,561,914
Call loans	3,290,167	2,352,034
Bonds purchased under resale agreements	8,981,752	10,145,749
Financial lease receivables	226,296	586,216
Installment financial bond	752,961	1,925,493
Others	1,191	380
Loan origination costs and fees	620,791	744,109
Discounted present value	(6,826)	(6,656)
Allowance for credit losses	(1,575,020)	(1,908,524)
Total	271,032,244	302,794,182

(*) As of December 31, 2020, 50,088 million Won of assets provided for collateral related to the bonds sold under repurchase agreements are included.

(6) Changes in the allowance for credit losses of loans are as follows (Unit: Korean Won in millions):

	For the year ended December 31, 2018					
		Consumers	S	Corporates		
	Stage 1	Stage 2	Stage 3	Stage 1	Stage 2	Stage 3
Beginning balance	(101,479)	(41,358)	(117,168)	(365,251	(255,922)	(905,243)
losses	(9,848)	8,966	882	(24,324	22,658	1,666
Transfer to lifetime expected credit losses	5,905	(7,183)	1,278	15,074	(407,780)	392,706
Transfer to credit-impaired financial assets	79,078	47,343	(126,421)	62,731	97,750	(160,481)
credit losses	(86,224)	(56,164)) 193,392	(94,004)
Recovery	_	_	(51,855)	_	_	(127,630)
Charge-off	_	_	204,552	_	_	290,109
Disposal	_	33	1,633	_	237	49,902
Interest income from impaired loans	_	_	7,945	_	_	23,381
Others ^(*)	(1,941)	(5)	(1,115)	31,840	46	1,921
Ending balance	(114,509)	(48,368)	(129,906)	(348,311	(349,619)	(527,673)
	For the year ended December 31, 2018					
		For	the year ende	d December 3	31, 2018	
		it card acco	unts		Total	
	Cred Stage 1			d December 3		Stage 3
Beginning balance	Stage 1	it card according Stage 2	Stage 3		Total Stage 2	Stage 3 (1,125,269)
Transfer to 12-month expected credit losses	Stage 1	it card according Stage 2	Stage 3	Stage 1	Total Stage 2	
Transfer to 12-month expected credit losses	Stage 1 (57,134)	it card according to the stage 2 (71,463)	Stage 3 (102,858)	Stage 1 (523,864)	Total Stage 2 (368,743)	(1,125,269)
Transfer to 12-month expected credit losses	Stage 1 (57,134) (13,846)	it card accord Stage 2 (71,463) 13,738 (6,194)	Stage 3 (102,858)	Stage 1 (523,864) (48,018)	Total Stage 2 (368,743) 45,362	(1,125,269) 2,656
Transfer to 12-month expected credit losses	Stage 1 (57,134) (13,846) 5,871 82,406	it card accord Stage 2 (71,463) 13,738 (6,194)	Stage 3 (102,858) 108 323 (166,454)	Stage 1 (523,864) (48,018) 26,850	Total Stage 2 (368,743) 45,362 (421,157)	(1,125,269) 2,656 394,307
Transfer to 12-month expected credit losses	Stage 1 (57,134) (13,846) 5,871 82,406	it card accor Stage 2 (71,463) 13,738 (6,194) 84,048	Stage 3 (102,858) 108 323 (166,454)	Stage 1 (523,864) (48,018) 26,850 224,215	Total Stage 2 (368,743) 45,362 (421,157) 229,141	(1,125,269) 2,656 394,307 (453,356)
Transfer to 12-month expected credit losses	Stage 1 (57,134) (13,846) 5,871 82,406	it card accor Stage 2 (71,463) 13,738 (6,194) 84,048	Stage 3 (102,858) 108 323 (166,454) (33,205)	Stage 1 (523,864) (48,018) 26,850 224,215	Total Stage 2 (368,743) 45,362 (421,157) 229,141	(1,125,269) 2,656 394,307 (453,356) (176,846)
Transfer to 12-month expected credit losses	Stage 1 (57,134) (13,846) 5,871 82,406	it card accor Stage 2 (71,463) 13,738 (6,194) 84,048	102,858) 108 323 (166,454) (33,205) (57,565)	Stage 1 (523,864) (48,018) 26,850 224,215	Total Stage 2 (368,743) 45,362 (421,157) 229,141 38,968	(1,125,269) 2,656 394,307 (453,356) (176,846) (237,050)
Transfer to 12-month expected credit losses	Stage 1 (57,134) (13,846) 5,871 82,406 (82,083)	it card accor Stage 2 (71,463) 13,738 (6,194) 84,048 (98,260) —	102,858) 108 323 (166,454) (33,205) (57,565)	Stage 1 (523,864) (48,018) 26,850 224,215	Total Stage 2 (368,743) 45,362 (421,157) 229,141 38,968 — —	(1,125,269) 2,656 394,307 (453,356) (176,846) (237,050) 737,540
Transfer to 12-month expected credit losses	Stage 1 (57,134) (13,846) 5,871 82,406 (82,083) —	it card accor Stage 2 (71,463) 13,738 (6,194) 84,048 (98,260) —	102,858) 108 323 (166,454) (33,205) (57,565)	Stage 1 (523,864) (48,018) 26,850 224,215	Total Stage 2 (368,743) 45,362 (421,157) 229,141 38,968 — 270	(1,125,269) 2,656 394,307 (453,356) (176,846) (237,050) 737,540 51,535

^(*) Changes due to debt-equity swap, foreign currencies translation, and etc.

	For the year ended December 31, 2019						
		Consumers			Corporates		
	Stage 1	Stage 2	Stage 3	Stage 1	Stage 2	Stage 3	
Beginning balance	(114,509)	(48,368)	(129,906)	(348,311)	(349,619)	(527,673)	
losses	(14,430)	13,661	769	(58,537)	49,884	8,653	
losses	14,022	(15,332)	1,310	8,215	(20,473)	12,258	
assets	8,603	10,312	(18,915)	3,308	17,852	(21,160)	
credit losses	21,802	(38,203)	(146,204)	86,565	6,855	(75,392)	
Recovery	_	_	(61,914)	_	_	(66,359)	
Charge-off	_	_	217,382	_	_	222,537	
Disposal	_	_	2,763	_	1	42,095	
Interest income from impaired loans	_	_	9,647	_	_	17,887	
Business combination	_	_	_	(9)	(2,008)	(3,150)	
Others	(636)	(32)	(520)	(15,489)	(210)	259	
Ending balance	(85,148)	<u>(77,962</u>)	<u>(125,588)</u>	(324,258)	<u>(297,718)</u>	<u>(390,045)</u>	
		For t	the year ende	d December 3	1, 2019		
	Cre	For t		d December 3	1, 2019 Total		
	Cree Stage 1			Stage 1		Stage 3	
Beginning balance		Stage 2	ounts	Stage 1	Total Stage 2	Stage 3 (774,351)	
	Stage 1	Stage 2	Stage 3	Stage 1	Total Stage 2		
Transfer to 12-month expected credit losses	Stage 1 (64,787)	Stage 2 (78,131)	Stage 3 (116,772)	Stage 1 (527,607)	Total Stage 2 (476,118)	(774,351)	
Transfer to 12-month expected credit losses	Stage 1 (64,787) (15,712)	tage 2 (78,131) 15,231	Stage 3 (116,772) 481	Stage 1 (527,607) (88,679)	Total Stage 2 (476,118) 78,776	(774,351) 9,903	
Transfer to 12-month expected credit losses	Stage 1 (64,787) (15,712) 6,031 98,647	dit card acco Stage 2 (78,131) 15,231 (6,317)	Stage 3 (116,772) 481 286	Stage 1 (527,607) (88,679) 28,268	Total Stage 2 (476,118) 78,776 (42,122)	9,903 13,854	
Transfer to 12-month expected credit losses	Stage 1 (64,787) (15,712) 6,031 98,647	dit card acco Stage 2 (78,131) 15,231 (6,317) 94,116	Stage 3 (116,772) 481 286 (192,763)	Stage 1 (527,607) (88,679) 28,268 110,558	Total Stage 2 (476,118) 78,776 (42,122) 122,280	9,903 13,854 (232,838)	
Transfer to 12-month expected credit losses	Stage 1 (64,787) (15,712) 6,031 98,647	dit card acco Stage 2 (78,131) 15,231 (6,317) 94,116	Stage 3 (116,772) 481 286 (192,763) (40,343)	Stage 1 (527,607) (88,679) 28,268 110,558	Total Stage 2 (476,118) 78,776 (42,122) 122,280	(774,351) 9,903 13,854 (232,838) (261,939)	
Transfer to 12-month expected credit losses	Stage 1 (64,787) (15,712) 6,031 98,647	dit card acco Stage 2 (78,131) 15,231 (6,317) 94,116	Stage 3 (116,772) 481 286 (192,763) (40,343) (60,365)	Stage 1 (527,607) (88,679) 28,268 110,558	Total Stage 2 (476,118) 78,776 (42,122) 122,280	9,903 13,854 (232,838) (261,939) (188,638)	
Transfer to 12-month expected credit losses	Stage 1 (64,787) (15,712) 6,031 98,647	dit card acco Stage 2 (78,131) 15,231 (6,317) 94,116	Stage 3 (116,772) 481 286 (192,763) (40,343) (60,365)	Stage 1 (527,607) (88,679) 28,268 110,558	Total Stage 2 (476,118) 78,776 (42,122) 122,280 (127,782) —	9,903 13,854 (232,838) (261,939) (188,638) 721,339	
Transfer to 12-month expected credit losses	Stage 1 (64,787) (15,712) 6,031 98,647	dit card acco Stage 2 (78,131) 15,231 (6,317) 94,116	Stage 3 (116,772) 481 286 (192,763) (40,343) (60,365)	Stage 1 (527,607) (88,679) 28,268 110,558	Total Stage 2 (476,118) 78,776 (42,122) 122,280 (127,782) —	9,903 13,854 (232,838) (261,939) (188,638) 721,339 44,858 27,534	
Transfer to 12-month expected credit losses	Stage 1 (64,787) (15,712) 6,031 98,647	dit card acco Stage 2 (78,131) 15,231 (6,317) 94,116	Stage 3 (116,772) 481 286 (192,763) (40,343) (60,365)	Stage 1 (527,607) (88,679) 28,268 110,558 9,479 — —	Total Stage 2 (476,118) 78,776 (42,122) 122,280 (127,782) — — — 1 —	9,903 13,854 (232,838) (261,939) (188,638) 721,339 44,858	

	For the year ended December 31, 2020						
		Consumers		Corporates			
	Stage 1	Stage 2	Stage 3	Stage 1	Stage 2	Stage 3	
Beginning balance	(85,148)	(77,962)	(125,588)	(324,258)	(297,718)	(390,045)	
losses	(20,839)	20,050	789	(29,117)	25,067	4,050	
losses	9,137	(10,800)	1,663	19,259	(48,184)	28,925	
assets	3,549	4,913	(8,462)	3,607	10,349	(13,956)	
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	
Business combination	(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	<u>(121,527)</u>	(84,463)	(205,693)	(327,460)	(521,907)	(388,744)	
		For	the year ende	d December 3	1, 2020		
	Cree	For t	the year ender	d December 3	1, 2020 Total		
	Cree Stage 1			Stage 1		Stage 3	
Beginning balance		Stage 2	ounts	Stage 1	Total Stage 2		
	Stage 1	Stage 2	Stage 3	Stage 1	Total Stage 2		
Transfer to 12-month expected credit losses	Stage 1 (74,726)	Stage 2 (71,533)	Stage 3 (128,042)	Stage 1 (484,132)	Total Stage 2 (447,213)	(643,675)	
Transfer to 12-month expected credit losses	Stage 1 (74,726) (14,978)	tage 2 (71,533) 14,755	Stage 3 (128,042) 223	Stage 1 (484,132) (64,934)	Total Stage 2 (447,213) 59,872	(643,675) 5,062	
Transfer to 12-month expected credit losses	Stage 1 (74,726) (14,978) 9,341	Stage 2 (71,533) 14,755 (9,742)	Stage 3 (128,042) 223 401 (1,764)	Stage 1 (484,132) (64,934) 37,737	Total Stage 2 (447,213) 59,872 (68,726)	(643,675) 5,062 30,989	
Transfer to 12-month expected credit losses	Stage 1 (74,726) (14,978) 9,341 627	Stage 2 (71,533) 14,755 (9,742) 1,137	Stage 3 (128,042) 223 401 (1,764)	Stage 1 (484,132) (64,934) 37,737 7,783	Total Stage 2 (447,213) 59,872 (68,726) 16,399	(643,675) 5,062 30,989 (24,182)	
Transfer to 12-month expected credit losses Transfer to lifetime expected credit losses Transfer to credit-impaired financial assets Net reversal (provision) of allowance for credit losses	Stage 1 (74,726) (14,978) 9,341 627	Stage 2 (71,533) 14,755 (9,742) 1,137	Stage 3 (128,042) 223 401 (1,764) (179,872)	Stage 1 (484,132) (64,934) 37,737 7,783	Total Stage 2 (447,213) 59,872 (68,726) 16,399	(643,675) 5,062 30,989 (24,182) (577,060)	
Transfer to 12-month expected credit losses	Stage 1 (74,726) (14,978) 9,341 627	Stage 2 (71,533) 14,755 (9,742) 1,137	Stage 3 (128,042) 223 401 (1,764) (179,872) (66,026)	Stage 1 (484,132) (64,934) 37,737 7,783	Total Stage 2 (447,213) 59,872 (68,726) 16,399 (235,164) —	(643,675) 5,062 30,989 (24,182) (577,060) (203,482)	
Transfer to 12-month expected credit losses	Stage 1 (74,726) (14,978) 9,341 627	Stage 2 (71,533) 14,755 (9,742) 1,137 (25,098)	Stage 3 (128,042) 223 401 (1,764) (179,872) (66,026) 245,890	Stage 1 (484,132) (64,934) 37,737 7,783	Total Stage 2 (447,213) 59,872 (68,726) 16,399 (235,164) — —	(643,675) 5,062 30,989 (24,182) (577,060) (203,482) 671,237	
Transfer to 12-month expected credit losses Transfer to lifetime expected credit losses Transfer to credit-impaired financial assets Net reversal (provision) of allowance for credit losses Recovery Charge-off Disposal	Stage 1 (74,726) (14,978) 9,341 627	Stage 2 (71,533) 14,755 (9,742) 1,137 (25,098)	Stage 3 (128,042) 223 401 (1,764) (179,872) (66,026) 245,890	Stage 1 (484,132) (64,934) 37,737 7,783	Total Stage 2 (447,213) 59,872 (68,726) 16,399 (235,164) — — — — — — — — — — — — — — — — — — —	(643,675) 5,062 30,989 (24,182) (577,060) (203,482) 671,237 76,399	
Transfer to 12-month expected credit losses Transfer to lifetime expected credit losses Transfer to credit-impaired financial assets Net reversal (provision) of allowance for credit losses Recovery Charge-off Disposal Interest income from impaired loans	Stage 1 (74,726) (14,978) 9,341 627	Stage 2 (71,533) 14,755 (9,742) 1,137 (25,098)	Stage 3 (128,042) 223 401 (1,764) (179,872) (66,026) 245,890	Stage 1 (484,132) (64,934) 37,737 7,783 24,995 — — —	Total Stage 2 (447,213) 59,872 (68,726) 16,399 (235,164) — — — — — — — — — — — — — — — — — — —	(643,675) 5,062 30,989 (24,182) (577,060) (203,482) 671,237 76,399 25,735	

(7) Changes in the gross carrying amount of loans are as follows (Unit: Korean Won in millions):

		For tl	he year ended	December 31, 20	18	
		Consumers			Corporates	
	Stage 1	Stage 2	Stage 3	Stage 1	Stage 2	Stage 3
Beginning balance Transfer to 12-month	103,502,347	5,487,758	326,739	131,096,396	4,466,354	1,622,409
expected credit losses Transfer to lifetime	1,921,485	(1,912,046)	(9,439)	1,081,702	(1,077,895)	(3,807)
expected credit losses Transfer to credit-impaired	(3,186,506)	3,199,993	(13,487)	(2,275,984)	2,733,860	(457,876)
financial assets	(218,943)	(127,447)	346,390	(348,503)	(275,189)	623,692
Charge-off	_	_	(204,552)	_	_	(290,109)
Disposal	_	(478)	(31,910)	_	(2,781)	(166,347)
Net increase (decrease)	8,600,859	(619,771)	(22,247)	1,900,116	(813,091)	(307,304)
Ending balance	110,619,242	6,028,009	391,494	131,453,727	5,031,258	1,020,658
		Foi	r the vear end	ed December 31,	2018	
	Cre	edit card accour		·	Total	
	Stage 1	Stage 2	Stage 3	Stage 1	Stage 2	Stage 3
Beginning balance	5,721,743	935,266	177,983	240,320,486	10,889,378	2,127,131
Transfer to 12-month expecte	d					
credit losses	221,984	(221,841)	(143)	3,225,171	(3,211,782)	(13,389)
Transfer to lifetime expected						
credit losses	(287,623)) 288,027	(404)	(5,750,113)	6,221,880	(471,767)
Transfer to credit-impaired	(104.450)	(05.750)	200 217	((71.005)	(400.204)	1 170 200
financial assets) (95,758)	200,217	(671,905)	(498,394)	1,170,299
Charge-off		_	(242,879)	_	(3,259)	(737,540)
Net increase (decrease)		77,078	74,215	11,811,174	(1,355,784)	(198,257) (255,336)
Ending balance	6,861,844	982,772	208,989	248,934,813	12,042,039	1,621,141
		For th	o voor ondod	December 31, 20	10	
		Consumers	ic year chucu	Determoer 31, 20	Corporates	
	Stage 1	Stage 2	Stage 3	Stage 1	Stage 2	Stage 3
Beginning balance Transfer to 12-month	110,619,242	6,028,009	391,494	131,453,727	5,031,258	1,020,658
expected credit losses Transfer to lifetime	2,626,998	(2,614,767)	(12,231)	1,560,734	(1,550,164)	(10,570)
expected credit losses Transfer to credit-impaired	(8,238,499)	8,256,600	(18,101)	(2,306,186)	2,341,881	(35,695)
financial assets	(152,128)	(104,129)	256,257	(252,249)	(142,902)	395,151
Charge-off			(217,382)			(222,537)
Disposal		(55)	(67,924)	_	(70)	(161,318)
Net increase (decrease)	6,397,570	883,149	85,561	3,985,392	(809,566)	(266,432)
Business combination	100	´ —	´—	2,561	40,161	21,000
Ending balance	111,253,283	12,448,807	417,674	134,443,979	4,910,598	740,257

	For the year ended December 31, 2019					
	Cree	dit card accour	nts		Total	
	Stage 1	Stage 2	Stage 3	Stage 1	Stage 2	Stage 3
Beginning balance	. 6,861,844	982,772	208,989	248,934,813	12,042,039	1,621,141
credit losses	. 258,674	(258,166)	(508)	4,446,406	(4,423,097)	(23,309)
credit losses	. (307,100)	307,450	(350)	(10,851,785)	10,905,931	(54,146)
financial assets	, , ,	(104,712)	229,387 (281,420)	(529,052)	(351,743)	880,795 (721,339)
Disposal	. —		_	_	(125)	(229,242)
Net increase (decrease)	. 589,724	(41,512)	72,269	10,972,686	32,071	(108,602)
Business combination	. —	_	_	2,661	40,161	21,000
Ending balance	7,278,467	885,832	228,367	252,975,729	18,245,237	1,386,298
			he year ended	December 31, 20		
-		Consumers			Corporates	
-	Stage 1	Stage 2	Stage 3	Stage 1	Stage 2	Stage 3
Transfer to 12-month	111,253,283	12,448,807	417,674	134,443,979	4,910,598	740,257
expected credit losses Transfer to lifetime	4,564,471	(4,552,400)			(1,146,756)	•
expected credit losses Transfer to credit-impaired	(5,365,577)	5,388,064	(22,487)			(39,492)
financial assets	(96,197)	(103,016)		(357,386)	(120,491)	
Charge-off	_	_	(181,713)			(243,634)
Disposal	_	_	(55,349)		(398)	
Net increase (decrease)	13,326,560	(1,289,910)		14,804,391	(696,164)	
Business combination	2,307,498	125,166	137,336	3,507,163	358,846	24,678
Ending balance	125,990,038	<u>12,016,711</u>	537,106	149,574,932	7,328,741	717,909
	Cand			ed December 31, 2		
	Stage 1	Stage 2	Stage 3	Stage 1	Total Stage 2	Stage 3
D : : 1 1						
Beginning balance	7,278,467	885,832	228,367	252,975,729	18,245,237	1,386,298
credit losses	257,399	(257,144)	(255)	5,982,269	(5,956,300)	(25,969)
credit losses	(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)	224,286	5,619	204,369	28,355,237	(1,980,455)	194,382
Business combination				5,814,661	484,012	162,014

1,078,220

7,278,975

Ending balance

282,843,945

180,074

20,423,672

1,435,089

(8) Details of other financial assets are as follows (Unit: Korean Won in millions):

	December 31, 2019	December 31, 2020
Cash Management Account asset (CMA asset)	199,000	210,000
Receivables	5,653,997	3,809,929
Accrued income	1,012,240	864,107
Telex and telephone subscription rights and refundable deposits	949,118	936,878
Domestic exchange settlement debit	373,228	1,518,775
Other assets	82,782	192,342
Allowance for credit losses	(77,139)	(83,295)
Total	8,193,226	7,448,736

(9) Changes in the allowances for credit losses on other financial assets are as follows (Unit: Korean Won in millions):

	For the	vear ende	d December	31, 2018
	Stage 1	Stage 2	Stage 3	Total
Beginning balance	(2,955)	(1,832)	(54,211)	(58,998)
Transfer to 12-month expected credit losses	(150)	139	11	_
Transfer to lifetime expected credit losses	105	(416)	311	_
Transfer to credit-impaired financial assets	6,509	304	(6,813)	_
Net provision of allowance for credit losses	(6,583)	(166)	(31,550)	(38,299)
Charge-off	_	_	28,200	28,200
Disposal	_	1	1,264	1,265
Others	(395)	(1)	287	(109)
Ending balance	<u>(3,469)</u>	<u>(1,971)</u>	<u>(62,501)</u>	<u>(67,941)</u>
	For the	year ende	d December	31, 2019
	For the Stage 1	year ender	Stage 3	31, 2019 Total
Beginning balance		•	Stage 3	
Beginning balance	Stage 1	Stage 2	Stage 3	Total
	Stage 1 (3,469)	Stage 2 (1,971)	Stage 3 (62,501)	Total
Transfer to 12-month expected credit losses	Stage 1 (3,469) (207)	Stage 2 (1,971) 198	Stage 3 (62,501) 9	Total
Transfer to 12-month expected credit losses	Stage 1 (3,469) (207) 116	Stage 2 (1,971) 198 (43)	Stage 3 (62,501) 9 (73)	Total
Transfer to 12-month expected credit losses Transfer to lifetime expected credit losses Transfer to credit-impaired financial assets	Stage 1 (3,469) (207) 116 19	Stage 2 (1,971) 198 (43) 159	Stage 3 (62,501) 9 (73) (178)	Total (67,941) — — —
Transfer to 12-month expected credit losses Transfer to lifetime expected credit losses Transfer to credit-impaired financial assets Provision (reversal) of allowance for credit losses	Stage 1 (3,469) (207) 116 19	Stage 2 (1,971) 198 (43) 159	Stage 3 (62,501) 9 (73) (178) (6,854)	Total (67,941) — — (6,061)
Transfer to 12-month expected credit losses Transfer to lifetime expected credit losses Transfer to credit-impaired financial assets Provision (reversal) of allowance for credit losses Charge-off	Stage 1 (3,469) (207) 116 19	Stage 2 (1,971) 198 (43) 159	Stage 3 (62,501) 9 (73) (178) (6,854) 2,506	Total (67,941) — — (6,061) 2,506
Transfer to 12-month expected credit losses Transfer to lifetime expected credit losses Transfer to credit-impaired financial assets Provision (reversal) of allowance for credit losses Charge-off Disposal	Stage 1 (3,469) (207) 116 19 802	Stage 2 (1,971) 198 (43) 159 (9)	Stage 3 (62,501) 9 (73) (178) (6,854) 2,506 1,685	Total (67,941) — — (6,061) 2,506 1,685

	For the year ended December 31, 2020			31, 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
Business combination	(624)	(2,235)	(1,968)	(4,827)
Others	815	2	(518)	299
Ending balance	<u>(3,666)</u>	<u>(5,450)</u>	<u>(74,179)</u>	<u>(83,295)</u>

(10) Changes in the gross carrying amount of other financial assets are as follows (Unit: Korean Won in millions):

millions):	,			
	For the	year ended	December 3	31, 2018
	Stage 1	Stage 2	Stage 3	Total
Beginning balance	6,662,335	29,124	79,912	6,771,371
Transfer to 12-month expected credit losses		(7,556)		_
Transfer to lifetime expected credit losses	(11,418)	11,734	(316)	
Transfer to credit-impaired financial assets	(7,580)	(1,110)	8,690	
Charge-off		_	(28,201)	(28,201)
Disposal		(5)	(1,640)	(1,645)
Net increase (decrease)	803,480	(3,994)	13,579	813,065
Ending balance	7,454,390	28,193	72,007	7,554,590
	For the	vear ended	December 3	51. 2019
	Stage 1	Stage 2	Stage 3	Total
Beginning balance	7,454,390	28,193	72,007	7,554,590
Transfer to 12-month expected credit losses	8,036	(8,019)	(17)	
Transfer to lifetime expected credit losses	(17,678)		(62)	
Transfer to credit-impaired financial assets	(952)	(918)	1,870	
Charge-off		_	(2,506)	(2,506)
Disposal	_	_	(2,212)	(2,212)
Net increase	606,457	55,651	41,138	703,246
Business combination	9,591	_	7,656	17,247
Ending balance	8,059,844	92,647	117,874	8,270,365
	For the	vear ended	December 3	1 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)	0,270,303
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)
Business combination	72,035	4,414	2,262	78,711
Ending balance	7,267,426	76,418	188,187	7,532,031

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, 2019			
	Level 1(*)	Level 2(*)	Level 3	Total
Financial assets:				
Financial assets at FVTPL				
Deposits	27,901	_	_	27,901
Debt securities	420,330	1,910,929	5,826	2,337,085
Equity securities	157,895	1,834	528,621	688,350
Capital contributions	_	_	515,199	515,199
Beneficiary certificates	1	90,498	1,275,734	1,366,233
Loans	_	59,844	152,629	212,473
Derivative assets (Designated for trading)	3,057	2,893,798	25,048	2,921,903
Sub-total	609,184	4,956,903	2,503,057	8,069,144
Financial assets at FVTOCI				
Debt securities	2,146,163	24,568,261		26,714,424
Equity securities	441,672	_	493,698	935,370
Securities loaned		80,737		80,737
Sub-total	2,587,835	24,648,998	493,698	27,730,531
Derivative assets (Designated for hedging)		121,131		121,131
Total	3,197,019	29,727,032	2,996,755	35,920,806
Financial liabilities:				
Financial liabilities at FVTPL				
Deposits due to customers	27,530	_	_	27,530
Derivative liabilities (Designated for trading)	4,336	2,766,771	72,039	2,843,146
Sub-total	31,866	2,766,771	72,039	2,870,676
Financial liabilities at FVTPL designated as upon initial recognition				
Equity-linked securities			87,626	87,626
Derivative liabilities (Designated for hedging)		6,516	321	6,837
Total	31,866	2,773,287	159,986	2,965,139

^(*) 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, 2020				
	Level 1(*)	Level 2(*)	Level 3	Total	
Financial assets:					
Financial assets at FVTPL					
Deposits	48,796	_	_	48,796	
Debt securities	516,597	2,365,882	4,618	2,887,097	
Equity securities	35,422	_	450,371	485,793	
Capital contributions	_	_	865,685	865,685	
Beneficiary certificates	24,895	869,852	1,917,811	2,812,558	
Loans	_	467,229	209,062	676,291	
Derivative assets (Designated for trading)	18,416	6,875,454	7,872	6,901,742	
Others			84,979	84,979	
Sub-total	644,126	10,578,417	3,540,398	14,762,941	
Financial assets at FVTOCI					
Debt securities	3,092,237	25,855,904	_	28,948,141	
Equity securities	510,073		570,715	1,080,788	
Sub-total	3,602,310	25,855,904	570,715	30,028,929	
Derivative assets (Designated for hedging)		174,820		174,820	
Total	<u>4,246,436</u>	36,609,141	4,111,113	44,966,690	
Financial liabilities:					
Financial liabilities at FVTPL					
Deposits due to customers	49,279	_	_	49,279	
Derivative liabilities (Designated for trading)	6,024	6,433,727	20,136	6,459,887	
Securities sold	285,026			285,026	
Sub-total	340,329	6,433,727	20,136	6,794,192	
Financial liabilities at FVTPL designated as upon initial recognition					
Equity-linked securities	_	_	19,630	19,630	
- ·		64.760		-	
Derivative liabilities (Designated for hedging)		64,769		64,769	
Total	340,329	6,498,496	39,766	6,878,591	

December 21 2020

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.

^(*) 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.

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, 2019 and 2020 are as follows:

	Valuation methods			
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 net asset value.	Net asset value		
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, 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, 2019 and 2020 are as follows:

	Valuation methods	Input variables
Loans, bond with options	Fair value is calculated by using the Discounted Cash Flow Model, Binomial Tree, which is a valuation technique commonly used in the market taking into account the price and variability of the underlying asset, and LSMC.	Values of underlying assets, volatility, credit spread, discount rate and terminal growth rate
Debt securities	The Group is measuring fair value with LSMC and the Hull-White model.	Stock volatility, interest rate volatility and discount 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, 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, stock prices, volatility of underlying asset, net asset of the investment association and discount rate
Derivatives	Fair value is measured by models such as option model (Closed form), DCF model, FDM and Monte Carlo Simulation.	Risk-free market rate, discount rate, values of underlying assets such as foreign exchange rate and stock prices, volatility, etc.
Equity-linked securities	Fair value is measured by models such as option model (Closed form), DCF model, FDM and Monte Carlo Simulation.	Volatility of underlying assets, discount rate, dividends, volatility, correlation coefficient, foreign exchange rate, etc.
Others	Fair value is measured by DCF model, LSMC, etc.	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:

December 31, 2019

	Fair value measurement technique	Туре	Input variable	Range	Impact of changes in significant unobservable inputs on fair value measurement
Loans	Binomial tree, DCF		Stock prices, Volatility of underlying asset	14.50%~46.06%	Variation of fair value increases as volatility of underlying asset increases.
Derivative assets	Option valuation model and	Interest rate related	Correlation coefficient	0.90~0.98	Variation of fair value increases as correlation coefficient increases.
	others		Volatility of underlying asset	16.30%~41.20%	Variation of fair value increases as volatility increases.
		Equity related	Correlation coefficient	0.237~0.675	Variation of fair value increases as correlation coefficient increases.
	DCF model	Currency related	Credit risk adjustment ratio	7.70%~100.00%	Variation of fair value increases as credit risk adjustment ratio increases.
Derivative liabilities	Option valuation model and	Interest rate related	Correlation coefficient	0.90~0.98	Variation of fair value increases as correlation coefficient increases.
	others		Volatility of underlying asset	16.30%~41.20%	Variation of fair value increases as volatility increases.
		Equity related	Correlation coefficient	0.237~0.675	Variation of fair value increases as correlation coefficient increases.
			Volatility of underlying assets	21.40%~22.40%	Variation of fair value increases as volatility increases.
Equity-linked securities	Monte Carlo Simulation and others		Correlation coefficient	0.294~0.675	Equity-linked securities' variation of fair value increases if both volatility and correlation coefficient increase. However,

Volatility of

19.10%~25.30%

when correlation coefficient decreases despite the increase in volatility, the variation of fair

value of a compound financial

December 31, 2020

	Fair value measurement technique	Type	Input variable	Range	Impact of changes in significant unobservable inputs on fair value measurement
Loans, bond with options,			Stock prices, Volatility of	19.82~22.84%	Variation of fair value increases as volatility of underlying asset
convertible bonds	LSMC		underlying asset Stock prices, Volatility of underlying asset	18.99%	increases. Variation of fair value increases as volatility of underlying asset increases.
	DCF model		Discount rate	4.70~16.50%	Fair value increases as discount rate decreases.
			Terminal growth rate	1.00%	Fair value increases as terminal growth rate increases.
	II11 W/l::4	J-1	Credit spread	2.30~5.90%	Fair value decreases as credit spread increases.
	Hull-White mod	dei	Stock volatility	17.50~27.30%	Fair value increases as volatility increases.
			Interest rate volatility	0.50%	Fair value increases as volatility increases.
			Discount rate	3.10~53.20%	Fair value increases as discount rate decreases.
Derivative assets	Option valuation model and	Interest rate related	Correlation coefficient	0.90~0.98	Variation of fair value increases as correlation coefficient increases.
	others		Volatility of underlying asset	25.46~131.47%	Variation of fair value increases as volatility of underlying assets increases.
		Equity related	Correlation coefficient	0.29~0.75	Variation of fair value increases as correlation coefficient increases.
			Volatility of underlying asset	_	Variation of fair value increases as volatility of underlying assets increases.
	DCF model	Interest rate related	Credit risk adjustment ratio	100.00%	Variation of fair value decreases as credit risk adjustment ratio increases.
Derivative liabilities	Option valuation model and	Interest rate related	Correlation coefficient	0.90~0.98	Variation of fair value increases as correlation coefficient increases.
	others		Volatility of underlying asset	25.46~131.47%	Variation of fair value increases as volatility of underlying assets increases.
		Equity related	Correlation coefficient	0.29~0.75	Variation of fair value increases as correlation coefficient increases.
			Volatility of underlying asset	_	Variation of fair value increases as volatility of underlying assets increases.
Equity-linked securities	Monte Carlo Simulation and others	Equity related	Correlation coefficient Volatility of underlying asset	0.48~0.60 27.59~49.29%	Fair value of equity-linked securities increases if both historical volatility and correlation coefficient increase. However, when correlation coefficient decreases despite the
					increase in historical volatility, the fair value variation of equity- linked securities may decrease.

December 31, 2020

	Fair value measurement technique	Туре	Input variable	Range	Impact of changes in significant unobservable inputs on fair value measurement
Equity securities, capital contributions,	LSMC		Stock prices, Volatility of underlying asset	18.99~26.45%	Variation of fair value increases as volatility of underlying asset increases.
and beneficiary certificates	DCF model and others		Terminal growth rate	1.00%	Fair value increases as terminal growth rate increases.
			Discount rate	5.83~34.63%	Fair value increases as discount rate decreases.
			Fluctuation rate of real estate sales price	_	Fair value increases as sales price increases
			Liquidation value	_	Variation of liquidation value increases as volatility of underlying assets increases
	Net asset value method		Discount rate	14.30%	Fair value increases as discount rate decreases.
	Binomial Tree		Volatility	39.60%	Fair value increases as volatility increases.
			Discount rate	8.50%	Fair value increases as discount rate decreases.
Others	Income approach		Discount rate	12.69%	Fair value increases as discount rate decreases.
	**		Growth rate	1.00%	Fair value increases as growth rate increases.
	LSMC		Stock prices, Volatility of underlying asset	17.61~26.45%	Variation of fair value increases as volatility of underlying asset 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, 2018							
	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 fair value								
through profit or loss mandatorily								
measured at fair value								
Debt securities	9,694	(28)		3,000	(4,277)	_	8,389	
Equity securities	280,171	56,271		67,953	(2,535)	_	401,860	
Capital contributions	294,121	16,119		144,207	(31,833)	_	422,614	
Beneficiary certificates	654,066	16,391		5,151,535	(4,971,003)	3,310	854,299	
Loans	165,001	3,378	_	150,103	(138,032)	_	180,450	
Derivative assets	19,346	75,696		4,722	(50,966)		48,798	
Sub-total	1,422,399	167,827		5,521,520	(5,198,646)	3,310	1,916,410	
Financial assets at FVTOCI								
Equity securities	451,287		19,688	432	(2,560)		468,847	
Total	1,873,686	167,827	19,688	5,521,952	(5,201,206)	3,310	2,385,257	
Financial liabilities:								
Financial liabilities at fair value								
through profit or loss mandatorily								
measured at fair value								
Derivative liabilities	20,951	46,409		255	(50,921)	(3)	16,691	
Financial liabilities at fair value								
through profit or loss designated								
as upon initial recognition								
Equity-linked securities	160,057	(16,243)		183,039	(162,086)		164,767	
Total	181,008	30,166		183,294	(213,007)	(3)	181,458	

^(*1) The losses that increase financial liabilities are presented as positive amounts, and the gains that decrease financial liabilities are presented as negative amounts. The gain amounting to 137,777 million Won for the years ended December 31, 2018, which is from financial assets and liabilities that the Group holds as at the end of the periods, has been recognized in net gain (loss) on financial assets at FVTPL and net gain (loss) on financial assets at FVTOCI in the consolidated statement of comprehensive income.

^(*2) The Group recognizes transfers between levels at the end of reporting period within which events have occurred or conditions have changed.

			10.	the jear chace	December	01, 2017		
	Beginning balance	Business Combination		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	8,389		476		2,000	(5,039)		5,826
Equity securities	401,860		59,537	_	95,511	(28,287)	_	528,621
Capital contributions Beneficiary	422,614	707	(13,270)	_	173,064	(67,916)	_	515,199
certificates	854,299		18,450	_	578,228	(183,684)	8,441	1,275,734
Loans	180,450		6,854	_	60,696	(95,371)	_	152,629
Derivative assets	48,798		16,935		1,115	(40,343)	(1,457)	25,048
Sub-total	1,916,410	707	88,982		910,614	(420,640)	6,984	2,503,057
Financial assets at FVTOCI								
Equity securities	468,847	1,408		23,063	687	(306)	(1)	493,698
Total	2,385,257	2,115	88,982	23,063	911,301	(420,946)	6,983	2,996,755
Financial liabilities: Financial liabilities at FVTPL Derivative liabilities Financial liabilities at FVTPL designated as upon initial recognition	16,691	_	84,033	_	(11,140)	(14,817)	(2,728)	72,039
Equity-linked securities	ŕ	_	33,237	_	1,809	(112,187)	_	87,626
hedging)					321			321
Total	181,458		117,270		(9.010)	(127,004)	(2.728)	159,986

For the year ended December 31, 2019

^(*1) For financial liabilities, positive numbers represent losses that increase balance and negative numbers represent gains that decrease balance. The statements of comprehensive income includes gain of 21,809 million Won included in net gain (loss) on financial assets at FVTPL and net gain (loss) on financial assets at FVTOCI pertaining to the assets and liabilities held by the Group at the end of the period.

^(*2) The Group recognizes transfers between levels at the end of reporting period within which events have occurred or conditions have changed.

			Fo	or the year ende	d December	31, 2020		
	Beginning balance	Business combination		Other comprehensive income			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 Beneficiary	515,199	173,244	39,500	_	194,396	(56,654)	_	865,685
certificates	1,275,734	166,467	(7,919)		715,437	(231,908)		1,917,811
Loans	152,629	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	72,039	_	30,150	_	2,650	(66,170)	(18,533)	20,136
recognition Equity-linked securities	87,626	_	665	_	_	(68,661)	_	19,630
1 1 1 1	221					(221)		

E--- 4b-- ---- --- d--d D------b--- 21 2020

(321)

(18,533)

39,766

2,650 (135,152)

30,815

159,986

(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 3,156,741 million Won and 4,150,878 million Won as of December 31, 2019 and 2020 respectively, equity instruments of 2,194,320 million Won and 3,052,432 million Won whose carrying amount are considered to represent the reasonable approximation of fair value are excluded from the sensitivity analysis.

^(*1) For financial liabilities, positive numbers represent losses that increase balance and negative numbers represent gains that decrease balance. The statements of comprehensive income includes gain of 37,430 million Won included in net gain (loss) on financial assets at FVTPL and net gain (loss) on financial assets at FVTOCI pertaining to the assets and liabilities held by the Group at the end of the period.

^(*2) The Group recognizes transfers between levels at the end of reporting period within which events have occurred or conditions have changed.

The sensitivity on fluctuation of input variables by financial instruments as of December 31, 2018, 2019 and 2020 is as follows (Unit: Korean Won in millions):

	December 31, 2018			
		income loss)		mprehensive ne (loss)
	Favorable	Unfavorable	Favorable	Unfavorable
Financial assets:				
Financial assets at fair value through profit or loss				
mandatorily measured at fair value Derivative assets(*1)	4,578	(4.252)		
	146	(4,352)	_	
Loans		(127)	_	_
Debt securities	68	(35)		_
Equity securities(*2)(*3)	12,700	(9,165)		_
Beneficiary certificates(*3)	1,582	(1,582)	_	_
Financial assets at FVTOCI				(40.0=0)
Equity securities ^{(*2)(*3)}			23,798	(10,078)
Total	19,074	(15,261)	23,798	(10,078)
Financial liabilities:				
Financial liabilities at fair value through profit or loss				
mandatorily measured at fair value				
Derivative liabilities(*1)	2,433	(2,751)	_	_
Financial liabilities at fair value through profit or loss	,	() /		
designated as upon initial recognition				
Equity-linked securities(*1)	1,561	(1,669)		
Total	3,994	(4,420)		

^(*1) 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 growth rate (0~1%) and discount rate or liquidation value (-1~1%). The growth rate, discount rate, and liquidation value are major unobservable variables.

^(*3) 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 of real estate which is underlying assets and discount rate by 1%.

	December 31, 2019			
	Net income (loss)			nprehensive ne (loss)
	Favorable	Unfavorable	Favorable	Unfavorable
Financial assets:				
Financial assets at FVTPL				
Derivative assets(*1)	640	(935)	_	_
Loans(*2)	152	(128)	_	_
Debt securities	652	(640)	_	
Equity securities(*3)(*4)	16,104	(10,929)	_	
Beneficiary certificates(*4)	1,125	(1,125)	_	
Financial assets at FVTOCI				
Equity securities ^{(*3)(*4)}			26,380	(11,981)
Total	18,673	(13,757)	26,380	(11,981)
Financial liabilities:				
Financial liabilities at FVTPL				
Derivative liabilities(*1)	1,054	(816)	_	
Financial liabilities at FVTPL designated as upon initial				
recognition				
Equity-linked securities(*1)	136	(142)		
Total	1,190	(958)		

^(*1) 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 $(0\sim1\%)$ and discount rate or liquidation value $(-1\sim1\%)$. 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, 2020			
		income loss)	Other comprehensive income (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 ^{(*2)(*3)(*4)}	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)		

^(*1) 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 ($-10\%\sim10\%$) and volatility ($-10\sim10\%$). 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, 20	19	
		Fai	r value		Book
	Level 1	Level 2	Level 3	Total	value
Financial assets:					
Securities at amortized cost	3,123,898	17,378,920	_	20,502,818	20,320,539
Loans and other financial assets at					
amortized cost	25,902	54,507	283,058,699	283,139,108	293,717,693
Financial liabilities:					
Deposits due to customers	_	264,909,974	_	264,909,974	264,685,578
Borrowings	_	18,919,018	_	18,919,018	18,998,920
Debentures	_	31,173,189	_	31,173,189	30,858,055
Other financial liabilities	_	17,274,514	_	17,274,514	17,287,722
			December 31, 20	20	
		Fai	r value		Book
	Level 1	Level 2	Level 3	Total	value
Financial assets:					
Securities at amortized cost	2,968,875	14,299,748	_	17,268,623	17,020,839
Loans and other financial assets at					
amortized cost	_	_	318,144,845	318,144,845	320,106,078
Financial liabilities:					
Deposits due to customers		291,767,282	_	291,767,282	291,477,279
				_, _,, _,	
Borrowings	_	20,586,930	176,745	20,763,675	20,745,466
÷	_		176,745		

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):

		I	December 31, 2019		
	-		, , , , , , , , , , , , , , , , , , , ,	Derivatives	
Financial assets	Financial asset	Financial assets at FVTOCI	Financial assets at amortized cost	assets (Designated for hedging)	Total
Deposits	27,901	_	14,492,223	_	14,520,124
Securities	4,906,867	27,730,531	20,320,539	_	52,957,937
Loans	212,473	_	271,032,244	_	271,244,717
Derivative assets	2,921,903	_	_	121,131	3,043,034
Other financial assets	<u> </u>	_	8,193,226	_	8,193,226
Total	8,069,144	27,730,531	314,038,232	121,131	349,959,038
		Dec	ember 31, 2019		
				Derivatives	
Fir	nancial liabilities	Financial liabilities	Financial liabilities	liabilities (Designated for	
Financial liabilities		designated at FVTPL		hedging)	Total
Deposits due to customers	27,530	_	264,685,578	_	264,713,108
Borrowings	_	87,626	18,998,920	_	19,086,546
Debentures	_	_	30,858,055	_	30,858,055
Derivative liabilities	2,843,146	_	_	6,837	2,849,983
Other financial liabilities	_	_	17,287,722		17,287,722
Total	2,870,676	87,626	331,830,275	6,837	334,795,414
		I	December 31, 2020		
				Derivatives	
Financial assets	Financial asset at FVTPL	Financial assets at FVTOCI	Financial assets at amortized cost	assets (Designated for	
		attvioei	at allioi tizeu cost	hedging)	Total
Deposits	48,796		9,863,160	neaging)	9,911,956
Deposits	,	30,028,929			
-	7,136,112		9,863,160		9,911,956
Securities	7,136,112 676,291		9,863,160 17,020,839	174,820	9,911,956 54,185,880
Securities	7,136,112 676,291 6,901,742		9,863,160 17,020,839		9,911,956 54,185,880 303,470,473
Securities Loans	7,136,112 676,291 6,901,742		9,863,160 17,020,839 302,794,182		9,911,956 54,185,880 303,470,473 7,076,562
Securities	7,136,112 676,291 6,901,742	30,028,929	9,863,160 17,020,839 302,794,182 — 7,448,736	174,820	9,911,956 54,185,880 303,470,473 7,076,562 7,448,736
Securities	7,136,112 676,291 6,901,742	30,028,929 ———————————————————————————————————	9,863,160 17,020,839 302,794,182 ————————————————————————————————————	174,820 	9,911,956 54,185,880 303,470,473 7,076,562 7,448,736
Securities Loans Derivative assets Other financial assets Total	7,136,112 676,291 6,901,742	30,028,929 ———————————————————————————————————	9,863,160 17,020,839 302,794,182 ————————————————————————————————————	174,820	9,911,956 54,185,880 303,470,473 7,076,562 7,448,736
Securities Loans Derivative assets Other financial assets Total	7,136,112 676,291 6,901,742 ————————————————————————————————————	30,028,929 ———————————————————————————————————	9,863,160 17,020,839 302,794,182 	174,820	9,911,956 54,185,880 303,470,473 7,076,562 7,448,736
Securities Loans Derivative assets Other financial assets Total	7,136,112 676,291 6,901,742 ————————————————————————————————————	30,028,929 30,028,929 30,028,929 De Financial liabilities designated at FVTPL	9,863,160 17,020,839 302,794,182 ————————————————————————————————————	174,820 174,820 Derivatives liabilities (Designated for	9,911,956 54,185,880 303,470,473 7,076,562 7,448,736 382,093,607 Total 291,526,558
Securities Loans Derivative assets Other financial assets Total Financial liabilities	7,136,112 676,291 6,901,742 14,762,941 Financial liabilitie at FVTPL	30,028,929 30,028,929 30,028,929 De Financial liabilities designated at	9,863,160 17,020,839 302,794,182 ————————————————————————————————————	174,820 174,820 Derivatives liabilities (Designated for	9,911,956 54,185,880 303,470,473 7,076,562 7,448,736 382,093,607 Total 291,526,558 21,050,122
Securities Loans Derivative assets Other financial assets Total Financial liabilities Deposits due to customers Borrowings Debentures	7,136,112 676,291 6,901,742 14,762,941 Financial liabilitie at FVTPL 49,279 285,026	30,028,929 30,028,929 30,028,929 De Financial liabilities designated at FVTPL	9,863,160 17,020,839 302,794,182 ————————————————————————————————————	174,820 174,820 Derivatives liabilities (Designated for	9,911,956 54,185,880 303,470,473 7,076,562 7,448,736 382,093,607 Total 291,526,558 21,050,122 37,479,358
Securities Loans Derivative assets Other financial assets Total Financial liabilities Deposits due to customers Borrowings Debentures Derivative liabilities	7,136,112 676,291 6,901,742 ————————————————————————————————————	30,028,929 30,028,929 30,028,929 De Financial liabilities designated at FVTPL	9,863,160 17,020,839 302,794,182 	174,820 174,820 Derivatives liabilities (Designated for	9,911,956 54,185,880 303,470,473 7,076,562 7,448,736 382,093,607 Total 291,526,558 21,050,122 37,479,358 6,524,656
Securities Loans Derivative assets Other financial assets Total Financial liabilities Deposits due to customers Borrowings Debentures	7,136,112 676,291 6,901,742 14,762,941 Financial liabilitie at FVTPL 49,279 285,026	30,028,929 30,028,929 30,028,929 De Financial liabilities designated at FVTPL	9,863,160 17,020,839 302,794,182 ————————————————————————————————————	174,820 174,820 174,820 Derivatives liabilities (Designated for hedging) — — — — — —	9,911,956 54,185,880 303,470,473 7,076,562 7,448,736 382,093,607 Total 291,526,558 21,050,122 37,479,358

(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, 2018, 2019 and 2020 are as follows (Unit: Korean Won in millions):

	For the year ended December 31, 2018					
	Interest Income (expense	Fees and Commissions Income (expense	allowance for	Gain or loss on transactions and valuation	Others	Total
Financial assets at FVTPL	54,243	86,845	_	214,443	50,407	405,938
Financial assets at FVTOCI	280,371	66	(2,027)	2,047	22,660	303,117
Securities at amortized cost	376,788	_	(1,922)	431	_	375,297
Loans and other financial assets at						
amortized cost	8,973,097	317,316	(415,084)	79,101	_	8,954,430
Financial liabilities at FVTPL	(3,164)	_	_	17,485	_	14,321
Financial liabilities at amortized						
cost	(4,030,384)	27,742	_	25,498	_	(3,977,144)
Net derivatives (designated for						
hedging)		_		(672)	_	(672)
Off-balance provisions			89,459			89,459
Total	5,650,951	431,969	(329,574)	338,333	73,067	6,164,746
			= =====================================			
		For the ye	ar ended Decen	ber 31, 2019		
	Interest	Fees and Commissions	Net reversal (provision) of allowance for	transactions	0.1	T
	Income (expense)		credit loss	and valuation	Others	Total
Financial assets at FVTPL	50,277	89,817		25,455	86,979	252,528
Financial assets at FVTOCI	474,751	_	(3,297)	11,015	20,980	503,449
Securities at amortized cost	436,340	_	1,415		_	437,755
Loans and other financial assets at amortized cost	0.615.060	206 425	(205 750)	102 115		0.627.952
Financial liabilities at amortized	9,615,060	296,435	(385,758)	102,115	_	9,627,852
cost	(4,682,722)					(4,682,722)
Net derivatives (designated for	(4,082,722)	_	_	_	_	(4,082,722)
hedging)		_		36,982	_	36,982
Total	<i>5</i> 902 706	296 252	(297.640)	·	107.050	
Total	5,893,706	386,252	(387,640)	175,567	107,939	6,175,844
		For the ve	ar ended Decen	nher 31 2020		
		Tor the ye	Net reversal	1001 31, 2020		
	Interest Income (expense)	Fees and Commissions Income (expense)	(provision) of allowance for credit loss	Gain or loss on transactions and valuation	Others	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	8,654,726	376,872	(792,250)	44,443	_	8,283,791
Financial liabilities at amortized						
cost	(3,516,023)	_	_		_	(3,516,023)
Net derivatives (designated for						
hedging)				(74,213)		(74,213)
Total	6,007,830	377,183	(792,845)	416,077	138,543	6,146,788

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, 2019	December 31, 2020
Assets transferred	Financial assets at FVTPL	407,985	410,331
	Financial assets at FVTOCI	56,975	138,315
	Securities at amortized cost	42,841	40,987
	Loans and other financial assets at amortized		
	cost	82,594	50,088
	Total	590,395	639,721
Related liabilities	Bonds sold under repurchase agreements	569,002	657,823

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 amounts of the securities loaned are as follows (Unit: Korean Won in millions):

		December 31, 2019	December 31, 2020	Loaned to
Financial assets at	Korean treasury and			Korea Securities Finance
FVTOCI	government bonds	80,737	100,345	Corporation

3) Liquidity of financial assets

As of December 31, 2019 and 2020, 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:

	December 31, 2019		December 31, 2020	
	Book value(*)	Fair value	Book value(*)	Fair value
Assets transferred	4,504,496	4,485,942	4,630,470	4,629,545
Related liabilities	3,523,010	3,532,784	3,803,911	3,804,821

^(*) 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.

(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 or unpaid domestic exchange payable has been offset with part of unpaid domestic exchange payables or uncollected domestic exchange receivables and has 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, 2019 and 2020, 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, 2019					
	Gross	Related amounts not setoff in the consolidated statement of financial Gross Gross Net position				
	amounts of recognized financial assets	amounts of recognized financial assets setoff	amounts of financial assets presented	Netting agreements and others	Cash collateral received and others	Net amounts
Financial assets:						
Derivative assets(*1)	3,032,894	_	3,032,894	7,058,885	111,122	075 002
Receivable spot exchange(*2)	5,112,206	_	5,112,206	7,030,003	111,122	975,093
Bonds purchased under resale						
agreements(*2)	8,981,752	_	8,981,752	8,981,752	_	_
Domestic exchange settlement						
debits ^{(*2)(*6)}	31,642,486	31,269,258	373,228			373,228
Total	48,769,338	31,269,258	17,500,080	16,040,637	111,122	1,348,321
Financial liabilities:						
Derivative liabilities(*1)	2,824,449	_	2,824,449			
Equity-linked securities in short				7,071,549	172,488	779,424
position ^(*3)	87,626	_	87,626			
Payable spot exchange(*4)	5,111,386	_	5,111,386			
Bonds sold under repurchase						
agreements(*5)	569,002	_	569,002	180,402	388,600	_
Domestic exchange settlement						
credits ^(*4) (*6)	32,531,186	31,269,258	1,261,928	1,257,280		4,648
Total	41,123,649	31,269,258	9,854,391	8,509,231	561,088	784,072

(*6) Certain financial assets and liabilities are presented as net amounts.

	December 31, 2020						
	Gross				Related amounts not setoff in the consolidated statement of financial position		
	amounts of recognized financial assets	amounts of recognized financial assets setoff	amounts of financial assets presented	Netting agreements and others	Cash collateral received and others	Net amounts	
Financial assets:							
Derivative assets(*1)	6,456,799	_	6,456,799	7 722 007	598,545	1 270 176	
Receivable spot exchange(*2)	3,153,919		3,153,919	1,133,991	390,343	1,2/0,1/0	
Bonds purchased under resale agreements(*2)	10,145,749	_	10,145,749	10,145,749	_	_	
Domestic exchange settlement							
debits(*2)(*6)	34,352,965	32,834,189	1,518,776	_	_	1,518,776	
Total	54,109,432	32,834,189	21,275,243	17,879,746	598,545	2,796,952	
Financial liabilities:							
Derivative liabilities(*1)	5,823,620	_	5,823,620				
Equity-linked securities in short position(*3)	19,630	_	19,630	7,147,683	477,603	1,371,364	
Payable spot exchange(*4)	3,153,400		3,153,400				
Bonds sold under repurchase							
agreements ^(*5)	657,823	_	657,823	213,623	444,200	_	
Domestic exchange settlement							
credits ^{(*4)(*6)}	33,014,440	32,834,189	180,251	176,179		4,072	
Total	42,668,913	32,834,189	9,834,724	7,537,485	921,803	1,375,436	

^(*1) The items include derivative assets and liabilities held for trading and designated for hedging.

^(*1) The items include derivatives held for trading, derivatives designated for hedging.

^(*2) The items are included in loan at amortized cost and other financial assets.

^(*3) The items are equity linked securities related to derivatives and are included in financial liabilities at FVTPL.

^(*4) The items are included in other financial liabilities.

^(*5) The items are included in borrowings.

^(*2) The items are included in loan at amortized cost and other financial assets.

^(*3) The items are equity linked securities related to derivatives and are included in financial liabilities at FVTPL.

^(*4) The items are included in other financial liabilities.

^(*5) The items are included in borrowings.

^(*6) 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	Main business	December 31, 2019	December 31, 2020	Location	Financial statements as of
Woori Bank					
W Service Networks Co., Ltd.(*1)	Freight & staffing services	4.9	4.9	Korea	2020.11.30(*5)
Korea Credit Bureau Co., Ltd. (*2)	Credit information	9.9	9.9	Korea	2020.12.31
Korea Finance Security Co., Ltd.(*1)	Security service	15.0	15.0	Korea	2020.11.30(*5)
Saman Corporation(*6)	General construction	13.0	13.0	Horeu	2020.11.30
Saman Corporation	Technology service	9.2	_	Korea	(*11)
Wongwang Co., Ltd.(*4)	Wholesale and real estate	29.0	29.0	Korea	(*11)
Sejin Construction Co., Ltd.(*4)	Construction	29.6	29.6	Korea	(*11)
ARES-TECH Co., Ltd.(*4)	Electronic component				
	manufacturing	23.4	23.4	Korea	(*11)
Reading Doctors Co., Ltd.(*4)	Other services	35.4	35.4	Korea	(*11)
Cultizm Korea LTD Co., Ltd.(*4)	Wholesale and retail sales	31.3	31.3	Korea	(*11)
NK Eng Co., Ltd.(*4)	Manufacturing	23.1	23.1	Korea	(*11)
Beomgyo., Ltd.(*4)	Telecommunication equipment				
	retail sales	23.1	23.1	Korea	(*11)
Woori Growth Partnerships New					
Technology Private Equity Fund 2016KIF-IMM Woori Bank	Other financial services	23.1	23.1	Korea	2020.12.31
Technology Venture Fund	Other financial services	20.0	20.0	Korea	2020.12.31
K BANK Co., Ltd.(*2)(*7)	Finance	14.5	26.2	Korea	2020.11.30(*5)
Smart Private Equity Fund No.2 Woori Bank-Company K Korea Movie	Other financial services	20.0	20.0	Korea	2020.12.31
Asset Fund	Other financial services	25.0	25.0	Korea	2020.12.31
Fund(*6)	Finance	50.0	50.0	Korea	2020.9.30(*5)
Fund	Other financial services	23.3	23.3	Korea	2020.12.31
Private Investment Limited Partnership Crevisse Raim Impact 1st Startup	Other financial services	20.0	20.0	Korea	2020.12.31
Venture Specialist Private Equity					
Fund LOTTE CARD Co., Ltd	Other financial services Credit card and installment	25.0	25.0	Korea	2020.12.31
Together-Korea Government Private	financing	20.0	20.0	Korea	2020.9.30(*5)
Pool Private Securities Investment Trust No.3	Other financial services	_	100.0	Korea	2020.12.31
Genesis Environmental Energy Company 1st Private Equity Fund	Trust and collective investment	_	24.8	Korea	2020.12.31
Union Technology Finance Investment			20.7		2020 12 21
Association	Trust and collective investment	_	29.7	Korea	2020.12.31
Japanese Hotel Real Estate Private					
Equity Fund 2	Other financial services Investment trust and	19.9	19.9	Korea	2020.12.31
W id B TDIB!	discretionary investment business	_	29.3	Korea	2020.12.31
Woori Goseong Power EBL Private Special Asset Fund	Trust and collective investment	_	16.7	Korea	2020.12.31
Woori Seoul Beltway Private Special Asset Fund			25.0	Korea	2020.12.31

		Percentage of	ownership (%)		
			December 31,		Financial
Joint ventures and associates	Main business	2019	2020	Location	statements as of
Woori Financial Capital Co., Ltd.					
AJU TAERIM 1st Fund	Other financial services	_	25.6	Korea	2020.12.31
Portone-Cape Fund No.1	Other financial services	_	20.0	Korea	2020.12.31
KIWOOM PE AJU Investment			0.1	***	2020 12 21
Fund ^(*9)	Other financial services	_	9.1	Korea	2020.12.31
Woori FirstValue Private Real Estate					
Fund No.2	Real estate business	_	12.0	Korea	2020.12.31
Woori Asset Management Co. Ltd.	rear estate dusiness		12.0	110104	2020.12.01
Woori High plus G.B. Securities Feeder					
Fund1(G.B.)	Collective investment business	_	21.8	Korea	2020.12.31
Woori Star50 Master Fund ClassC-F	Collective investment business	_	24.5	Korea	2020.12.31
Woori Private Equity Asset Management					
Co., Ltd.					
Uri Hanhwa Eureka Private Equity	Other financial services	0.8	0.8	Vomos	2020 12 21
Fund ^(*2)	Other mancial services	0.8	0.8	Korea	2020.12.31
Fund 1					
Godo Kaisha Oceanos 1	Other financial services	47.8	47.8	Japan	2020.10.31(*5)
Woori bank and Woori Financial Capital				1	
Co., Ltd.(*8)					
JC Assurance No.2 Private Equity					
Fund		_	29.3	Korea	2020.12.31
Dream Company Growth no.1 PEF		_	27.8	Korea	2020.12.31
HMS-Oriens 1st Fund		_	22.8	Korea	2020.12.31
woon G Senior Loan No.1	Investment trust and discretionary investment				
	business	_	21.7	Korea	2020.12.31
Woori bank and Woori card Co., Ltd.					
Dongwoo C & C Co., Ltd.(*4)	Construction	24.5	24.5	Korea	(*11)
SJCO Co., Ltd.(*4)	Aggregate transportation and				
	wholesale	28.7	28.7	Korea	(*11)
G2 Collection Co., Ltd.(*4)	Wholesale and retail sales	29.2	29.2	Korea	(*11)
The Base Enterprise Co., Ltd.(*4)	Manufacturing	48.4	48.4	Korea	(*11) (*11)
Kyesan Engineering Co., Ltd. (*4) Good Software Lap Co., Ltd. (*4)	Construction Service	23.3 29.4	23.3 29.4	Korea Korea	(*11)
QTS Shipping Co., Ltd.(*4)	Complex transportation	29.4	29.4	Korea	_(``)
Q10 ompping co., Etc.	brokerage	49.8	49.8	Korea	(*11)
DAEA SNC Co., Ltd.(*4)	Wholesale and retail sales	25.5	25.5	Korea	(*11)
Force TEC Co., Ltd.(*4)	Manufacturing	25.8	25.8	Korea	(*11)
Sinseong Trading Co., Ltd.(*4)	Manufacturing	27.9	27.9	Korea	(*11)
PREXCO Co., Ltd.(*4)	Manufacturing	28.1	28.1	Korea	(*11)
Jiwon Plating Co., Ltd.(*4)	Plating	20.8	20.8	Korea	(*11)
Youngdong Sea Food Co., Ltd.(*4)	Processed sea food	24.5	24.5	17	(*11)
Woori bank and Woori Asset Management	manufacturing	24.5	24.5	Korea	(*11)
Co., Ltd.					
Woori High Plus Short-term High					
Graded ESG Bond Sec Feeder Inv					
Trust 1	Collective investment business	_	23.3	Korea	2020.12.31
Woori Bank, Woori Financial Capital Co.,					
Ltd., Woori Investment Bank Co., Ltd.					
and Woori Private Equity Asset					
Management Co., Ltd.(*8)					
Woori-Shinyoung Growth-Cap Private Equity Fund I	Other financial services	31.9	35.0	Koraa	2020 12 21
Equity Fund 1	Other financial services	31.9	33.0	Korea	2020.12.31

		Percentage of	ownership (%)			
Joint ventures and associates	Main business	December 31, 2019	December 31, 2020	Location	Financial statements as of	
Woori Bank and Woori Investment Bank Co., Ltd.(*8)						
Chin Hung International Inc.(*3)	Construction	25.3	_	Korea	(*11)	
PCC-Woori LP Secondary Fund	Other financial services	38.8	38.8	Korea	2020.12.31	
Woori Bank and Woori Private Equity Asset						
Management Co., Ltd.(*8)						
Woori-Q Corporate Restructuring						
Private Equity Fund	Trust and collective investment	38.4	38.4	Korea	2020.12.31	

- (*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) As of December 31, 2020, it is classified as assets held for sale. Quoted market prices per share of Chin Hung International Inc. are 2,310 Won and 2,595 Won as of December 31, 2019 and 2020, respectively.
- (*4) There is no investment balance as of December 31, 2019 and 2020.
- (*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 December 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) Due to a significant loss of influence as of December 31, 2020, the entity was classified as financial assets at FVTOCI.
- (*7) The equity ratio increased due to paid-in capital increase during the current term.
- (*8) Two or more subsidiaries may invest or operate to exert significant influence on the decision-making process for activities related to the investee.
- (*9) The Group can participate as a co-operator to exert significant influence.
- (*10) Woori G IPO10 [FI_Bal][F]C(F), Woori G Egis Bond[FI][F](C(F)) can exert significant influence but was classified as an item measured at fair value through profit or loss.
- (*11) The entity was classified as associates due to debt-equity swap or corporate restructuring.

^(*1) Most of the significant business transactions of associates are with the Group as of December 31, 2019 and 2020.

(2) 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):

				For the	For the year ended December 31, 2018	December	31, 2018			
			Share of		Disposal					
	Acquisition January I,	January 1, 2018	profits (losses)	Acquisition	and others ^(*)	Dividends	Change in capital	Impairment	Others	December 31, 2018
Kumho Tire Co., Inc.	175,652	98,933	(10,451)		(83,286)		(5,196)			I
W Service Network Co., Ltd.	108	158	-			(5)				157
Korea Credit Bureau Co., Ltd	3,313	5,816	1,087			(113)				6,790
Korea Finance Security Co., Ltd.	3,267	3,519	(10)			(54)	1	I		3,456
Chin Hung International Inc.	130,779	45,101	1,206				(1,725)		159	44,741
Poonglim Industrial Co., Ltd.	13,916									
STX Corporation	50,760	6,947	(816)	1	(5,865)		(266)	I	1	
Saman Corporation	8,521	1,254	(86)				35	(177)		1,014
Woori Growth Partnerships New Technology Private Equity										
Fund	25,847	27,611	950	360	(3,346)	(484)		I		25,091
2016KIF-IMM Woori Bank Technology Venture Fund	15,000	6,840		8,160			300			15,300
K BANK Co., Ltd.	67,343	31,735	(10,705)	21,951			144		584	43,709
	3,000	2,932	(42)							2,890
Woori Bank-Company K Korea Movie Asset Fund	3,000	2,957	(257)							2,700
Well to Sea No.3 Private Equity Fund	101,992	182,309	22,546		(508)	(517)	(6,437)	I		197,393
Partner One Value Up Ist Private Equity Fund	10,000		(52)	10,000						9,948
IBK KIP Seongjang Dideemdol 1st Private Investment Limited										
Partnership	4,426			4,426						4,426
Crevisse Raim Impact 1st Startup Venture Specialist Private										
Equity Fund	3,025			3,025						3,025
Nomura-Rifa Private Real Estate Investment Trust No.17	1,000	939	(152)							787
Uri Hanhwa Eureka Private Equity Fund	350		(11)	350						339
	621,299	417,051	3,196	48,272	(93,005)	(1,170)	(13,144)	(177)	743	361,766

(*) The amount transferred from the investments in joint ventures and associates to financial assets at FVTOCI is 83,286 million Won.

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	Acquisition January	January 1,			Disposal/) 	.≘	December 31,
	SOST	2019	(Iosses)	Acquisition	Keciassification Dividends	Dividends	capitai	6107
W Service Networks Co., Ltd.	108	157	31			(2)		186
Korea Credit Bureau Co., Ltd.	3,313	6,790	190			(135)		6,845
Korea Finance Security Co., Ltd.	3,267	3,456	(169)					3,287
Chin Hung International Inc.	130,779	44,741	6,426				6	51,176
Saman Corporation	8,521	1,014	(198)				33	849
Woori Growth Partnerships New Technology Private Equity Fund	18,666	25,091	1,466	309	(7,490)	(164)		19,212
2016KIF-IMM Woori Bank Technology Venture Fund	12,385	15,300	1,193		(2,615)		1,263	15,141
K BANK Co., Ltd.	73,150	43,709	(18,233)	5,807			(29)	31,254
Smart Private Equity Fund No.2	2,915	2,890	(41)		(85)			2,764
Woori Bank-Company K Korea Movie Asset Fund	3,000	2,700	623					3,323
Well to Sea No.3 Private Equity Fund	101,483	197,393	30,343			(18,836)	123	209,023
Partner One Value Up I Private Equity Fund	10,000	9,948	(40)					806'6
IBK KIP Seongjang Dideemdol 1st Private Investment Limited								
Partmership	4,576	4,426		150				4,576
Crevisse Raim Impact 1st Startup Venture Specialist Private Equity Fund	4,375	3,025		1,350				4,375
Woori-Shinyoung Growth-Cap Private Equity Fund I	12,665		(824)	12,665				11,841
LOTTE CARD Co.,Ltd	346,000		63,444	346,000				409,444
Woori-Q Corporate Restructuring Private Equity Fund	6,129		(83)	6,129				6,046
PCC-Woori LP Secondary Fund	2,525			2,525				2,525
Nomura-Rifa Private Real Estate Investment Trust No.17	1,000	787	(136)		(651)			
Uri Hanhwa Eureka Private Equity Fund	350	339	3					342
Godo Kaisha Oceanos 1	10,870		2	10,870	(15)	(105)	200	10,952
Japanese Hotel Real Estate Private Equity Fund 2	3,291			3,291		1		3,291
	759,368	361,766	83,997	389,096	(10,856)	(19,242)	1,599	806,360

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	Acquisition January I,	January 1, 2020	profits (losses)	Acquisition	Acquisition Reclassification Dividends combination	Dividends	Business ombination		capital 2020
W Service Networks Co., Ltd	108	186	7			(3)		1	191
Korea Credit Bureau Co., Ltd	3,313	6,845	1,370			(06)			8,125
Korea Finance Security Co., Ltd	3,267	3,287	(221)						3,066
Chin Hung International Inc.		51,176	(742)		(50,411)			(23)	
Saman Corporation		849	(432)		(466)			49	
Woori Growth Partnerships New Technology Private									
Equity Fund	16,938	19,212	(2,240)		(1,728)	(212)			15,032
2016KIF-IMM Woori Bank Technology Venture Fund	11,893	15,141	1,240		(492)	(1,088)		(1,563)	13,238
K BANK Co., Ltd.	236,232	31,254	(18,334)	163,082				(1,905)	174,097
Smart Private Equity Fund No.2	2,915	2,764	(1,283)						1,481
Woori Bank-Company K Korea Movie Asset Fund	2,100	3,323	365		(006)				2,788
Well to Sea No.3 Private Equity Fund		209,023	87,180		(117,170)	(178,355)		(828)	
Partner One Value Up I Private Equity Fund	10,000	806'6	(75)		1		1	(17)	9,816
IBK KIP Seongjang Dideemdol 1st Private Investment									
Limited Partnership	9,756	4,576		5,720	(540)				9,756
Crevisse Raim Impact 1st Startup Venture Specialist									
Private Equity Fund	4,130	4,375		75	(321)				4,129
Woori-Shinyoung Growth-Cap Private Equity Fund I	32,480	11,841	7,366	31,363	(12,124)	(104)			38,342
LOTTE CARD Co.,Ltd	346,810	409,444	19,692	810		(5,710)		(1,404)	422,832
Woori-Q Corporate Restructuring Private Equity Fund	23,146	6,046	(159)	17,017					22,904
PCC-Woori LP Secondary Fund	7,575	2,525	554	5,049					8,128
Force TEC Co., Ltd.			1,542		1			(1,149)	393
Together-Korea Government Private Pool Private									
Securities Investment Trust No.3	10,000		23	23 100,000	(90,000)				10,023
Genesis Environmental Energy Company 1st Private									
Equity Fund	3,738		241	4,084	(346)				3,979
Union Technology Finance Investment Association	4,500		(15)	4,500					4,485
Uri Hanhwa Eureka Private Equity Fund	350	342	61						403
Godo Kaisha Oceanos 1	10,800	10,952	7			(850)		84	10,193
Japanese Hotel Real Estate Private Equity Fund 2	3,291	3,291	283			(154)		(186)	3,234
Woori High plus G.B. Securities Feeder Fund1(G.B.)	000,9		49	6,141				(1114)	9/0/9
Woori G Senior Loan No.1	51,959		343	51,959		(257)			52,045
	1,015		6	1,015		8			1,024
Woori Goseong Power EBL Private Special Asset Fund	14,915		611	14,915		(408)			15,118

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	Acquisition January 1, profits cost 2020 (losses)	January 1, 2020	Share of profits (losses)	Acquisition	hare of profits Disposal/ Acquisition Reclassification	Business Dividends combination	Business ombination		Change in December 31,
Woori Seoul Beltway Private Special Asset Fund	5,590		97	5,591		(75)			5,613
AJU TAERIM 1st Fund	1,100		(9)				289		283
Portone-Cape Fund No.1	1,000						096		096
KIWOOM PE AJU 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			1	1	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					93,474
	974.968	806,360	101,077	806,360 101,077 552,368	(274,498)	(187,306) 1,249	1,249	(5.959)	993,291

(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):

		December 3	31, 2019	
	Assets	Liabilities	Operating revenue	Net income (loss)
W Service Networks Co., Ltd	5,742	1,969	17,572	1,322
Korea Credit Bureau Co., Ltd	96,855	30,289	91,200	1,480
Korea Finance Security Co., Ltd	32,574	10,660	61,939	(1,265)
Chin Hung International Inc	335,147	229,764	499,152	26,617
Saman Corporation	92,206	66,184	91,088	(485)
Woori Growth Partnerships New Technology Private Equity				
Fund	83,583	330	7,866	6,355
2016KIF-IMM Woori Bank Technology Venture Fund	72,768	343	8,939	7,462
K BANK Co., Ltd.	2,679,968	2,464,168	84,928	(89,779)
Smart Private Equity Fund No.2	13,872	51	2	(204)
Woori Bank-Company K Korea Movie Asset Fund	13,294	2	4,532	2,492
Well to Sea No.3 Private Equity Fund	7,073,363	6,470,540	524,319	48,357
Partner One Value Up I Private Equity Fund	42,602	_	457	(175)
IBK KIP Seongjang Dideemdol 1st Private Investment				
Limited Partnership	21,208	691	766	(676)
Crevisse Raim Impact 1st Startup Venture Specialist Private				
Equity Fund	16,939	124	10	(494)
Woori-Shinyoung Growth-Cap Private Equity Fund I	37,642	620	2	(2,679)
LOTTE CARD Co.,Ltd(*)	12,936,977	10,659,889	1,366,512	42,538
Woori-Q Corporate Restructuring Private Equity Fund	15,975	823	_	(823)
PCC-Woori LP Secondary Fund	6,498	_	_	(2)
Uri Hanhwa Eureka Private Equity Fund	41,950	236	41	(436)
Godo Kaisha Oceanos 1	70,869	47,960	778	119
Japanese Hotel Real Estate Private Equity Fund 2	16,561	6	_	(600)

^(*) 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.

		December 3	31, 2020	
	Assets	Liabilities	Operating revenue	Net income (loss)
W Service Networks Co., Ltd.	6,305	2,448	18,525	1,197
Korea Credit Bureau Co., Ltd	117,077	37,599	107,810	13,391
Korea Finance Security Co., Ltd	36,978	16,536	60,599	(1,985)
Woori Growth Partnerships New Technology Private Equity	,	,	00,200	(-,,)
Fund	65,390	252	1,589	(9,601)
2016KIF-IMM Woori Bank Technology Venture Fund	64,109	1,198	7,425	6,201
K BANK Co., Ltd.	4,040,051	3,530,074	68,144	(83,989)
Smart Private Equity Fund No.2	13,667	51	1	(204)
Woori Bank-Company K Korea Movie Asset Fund	11,273	119	1,926	1,461
Well to Sea No.3 Private Equity Fund	22,001	3,102	610,535	16,061
Partner One Value Up I Private Equity Fund	42,205	3,102	308	(329)
IBK KIP Seongjang Dideemdol 1st Private Investment	42,203	_	300	(329)
Limited Partnership	46,542	655	1,024	(411)
Crevisse Raim Impact 1st Startup Venture Specialist Private	40,342	033	1,024	(411)
Equity Fund	15,747		284	(85)
Woori-Shinyoung Growth-Cap Private Equity Fund I	110,452	825	23,875	21,106
LOTTE CARD Co.,Ltd(*)	14,578,716	12,238,805	1,255,593	78,781
Woori-Q Corporate Restructuring Private Equity Fund			206	
	58,355	433	2,082	(1,590)
PCC-Woori LP Secondary Fund	20,927	4		1,425
Force TEC Co., Ltd.	47,077	45,552	25,914	(415)
Together-Korea Government Private Pool Private Securities	10.025	1	107	22
Investment Trust No.3	10,025	1	187	23
Genesis Environmental Energy Company 1st Private Equity	16 102	110	1 400	07.4
Fund	16,192	118	1,400	974
Union Technology Finance Investment Association	15,151	51	1	(50)
Uri Hanhwa Eureka Private Equity Fund	50,382	235	8,150	7,676
Godo Kaisha Oceanos 1	66,793	45,472	1,425	14
Japanese Hotel Real Estate Private Equity Fund 2	16,293	15	1,359	1,271
Woori High plus G.B. Securities Feeder Fund1(G.B.)	27,870		148	148
Woori G Senior Loan No.1	240,414	15	1,721	1,584
Woori G Clean Energy No.1	3,496	1	33	32
Woori Goseong Power EBL Private Special Asset Fund	90,728	21	3,060	2,969
Woori Seoul Beltway Private Special Asset Fund	22,452	1	352	323
AJU TAERIM 1st Fund	1,192	86		(22)
Portone-Cape Fund No.1	4,800	_	_	_
KIWOOM PE AJU Investment Fund	10,986	57		(71)
Woori FirstValue Private Real Estate Fund No.2	20,220	2,467	9	(9)
Woori Star50 Master Fund ClassC-F	1,011	246	11	11
JC Assurance No.2 Private Equity Fund	98,431	13		(732)
Dream Company Growth no.1 PEF	28,727	43	_	(116)
HMS-Oriens 1st Fund	52,685	53	90	20
Woori High Plus Short-term High Graded ESG Bond Sec				
Feeder Inv Trust 1	402,015	_	10,727	10,727

^(*) 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.

(4) 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, 2019 and 2020 are as follows:

	December 31,	2019
Associate(*)	Number of shares owned	Ownership (%)
Orient Shipyard Co., Ltd	464,812	21.4
Saenuel Co., Ltd.	3,531	37.4
E Mirae Tech Co., Ltd.	7,837	41.8
Jehin Trading Co., Ltd.	83,056	27.7
The Season Company Co., Ltd	18,283	30.3
Yuil PESC Co., Ltd.	8,642	24.0
CL Tech Co., Ltd.	13,759	38.6

(*) Even though 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,	2020
Associate(*)	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

- (*) Even though 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.
- (5) As of December 31, 2018, 2019 and 2020, the reconciliations from the net assets of the associates to the book value of the shares of the investment in joint ventures and associates are as follows (Unit: Korean Won in millions except for ownership):

			Dec	cember 31,	2018		
	Total net	Ownership (%)	Ownership portion of net assets		Impairment	Intercompany transaction	Book value
W Service Network Co., Ltd	3,180	4.9	157	_	_		157
Korea Credit Bureau Co., Ltd	66,009	9.9	6,544	246	_		6,790
Korea Finance Security Co., Ltd	23,041	15.0	3,456	_			3,456
Chin Hung International Inc.(*)	79,793	25.3	20,192	24,565	_	(16)	44,741
Saman Corporation	27,805	9.2	2,556	5,373	(6,915)		1,014
Woori Growth Partnerships New Technology							
Private Equity Fund	108,727	23.1	25,091	_	_	_	25,091
2016KIF-IMM Woori Bank Technology							
Venture Fund	73,219	20.0	14,644	_	_	656	15,300
K BANK Co., Ltd.(*)	290,597	14.1	40,984	2,725	_	_	43,709
Smart Private Equity Fund No.2	14,451	20.0	2,890	_	_	_	2,890
Woori Bank-Company K Korea Movie Asset							
Fund	10,800	25.0	2,700	_	_	_	2,700
Well to Sea No.3 Private Equity Fund ^(*)	396,248	50.0	198,027	_	_	(634)	197,393
Partner One Value Up Ist Private Equity							
Fund	42,776	23.3	9,948	_			9,948
IBK KIP Seongjang Dideemdol 1st Private							
Investment Limited Partnership	20,443	20.0	4,089	_	_	337	4,426
Crevisse Raim Impact 1st Startup Venture							
Specialist Private Equity Fund	11,909	25.0	2,977	_	_	48	3,025
Nomura-Rifa Private Real Estate Investment							
Trust No.17	4,019	19.4	780	_	_	7	787
Uri Hanhwa Eureka Private Equity Fund	42,151	0.8	339	_	_	_	339

(*) The net asset equity amount is after the debt-for-equity swap.

	December 31, 2019								
			Ownership						
	Total net asset	Ownership (%)	portion of net assets		Impairment	Intercompany transaction	Book value		
W Service Networks Co., Ltd	3,773	4.9	186	_			186		
Korea Credit Bureau Co., Ltd	66,566	9.9	6,597	246		2	6,845		
Korea Finance Security Co., Ltd	21,914	15.0	3,287	_	_		3,287		
Chin Hung International Inc.(*1)	105,383	25.3	26,646	24,565		(35)	51,176		
Saman Corporation(*2)	26,022	9.2	2,391	5,373	(6,915)		849		
Woori Growth Partnerships New									
Technology Private Equity Fund	83,253	23.1	19,215		_	(3)	19,212		
2016KIF-IMM Woori Bank Technology									
Venture Fund	72,425	20.0	14,485	_		656	15,141		
K BANK Co., Ltd. (*1)(*2)	215,800	14.5	31,248	3,634	(3,634)	6	31,254		
Smart Private Equity Fund No.2	13,821	20.0	2,764		_	_	2,764		
Woori Bank-Company K Korea Movie									
Asset Fund	13,292	25.0	3,323		_	_	3,323		
Well to Sea No.3 Private Equity Fund(*1)	418,250	50.0	209,041		_	(18)	209,023		
Partner One Value Up Ist Private Equity									
Fund	42,602	23.3	9,909		_	(1)	9,908		
IBK KIP Seongjang Dideemdol 1st Private									
Investment Limited Partnership	20,517	20.0	4,103		_	473	4,576		
Crevisse Raim Impact 1st Startup Venture									
Specialist Private Equity Fund	16,815	25.0	4,204		_	171	4,375		
Woori-Shinyoung Growth-Cap Private									
Equity Fund I	37,022	31.9	11,841	_		_	11,841		
LOTTE CARD Co., Ltd(*1)	2,047,220	20.0	409,444	_		_	409,444		
Woori-Q Corporate Restructuring Private									
Equity Fund	15,152	38.4	5,813	_		233	6,046		
PCC-Woori LP Secondary Fund	6,498	38.8	2,524	_		1	2,525		
Uri Hanhwa Eureka Private Equity Fund	41,714	0.8	342	_		_	342		
Godo Kaisha Oceanos 1	22,909	47.8	10,952	_			10,952		
Japanese Hotel Real Estate Private Equity									
Fund 2	16,555	19.9	3,291	_		_	3,291		

^(*1) The net asset equity amount is after the debt-for-equity swap, non-controlling etc.

^(*2) 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, 2020

			0 1:		1020		
	Total net asset	Ownership (%)	Ownership portion of net assets	Basis difference	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	15.0	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	20.0	12,582	_	_	656	13,238
K BANK Co., Ltd. (*1)(*2)	509,978	26.2	133,614	44,117	(3,634)		174,097
Smart Private Equity Fund No.2(*2)	13,616	20.0	2,723	· —	(1,242)	_	1,481
Woori Bank-Company K Korea Movie	<i>'</i>		,				,
Asset Fund	11,154	25.0	2,788	_			2,788
Well to Sea No.3 Private Equity Fund(*3)	18,899		, <u> </u>	_	_	_	´—
Partner One Value Up Ist Private Equity	<i>'</i>						
Fund	42,205	23.3	9,817	_	_	(1)	9,816
IBK KIP Seongjang Dideemdol 1st Private	ŕ		,			. ,	,
Investment Limited Partnership	45,888	20.0	9,178			578	9,756
Crevisse Raim Impact 1st Startup Venture	10,000		2,2.0				,,,,,
Specialist Private Equity Fund	15,747	25.0	3,937			192	4,129
Woori-Shinyoung Growth-Cap Private	,		2,52.				-,
Equity Fund I	109,627	35.0	38,342	_	_	_	38,342
LOTTE CARD Co., Ltd ^(*1)			422,832				422,832
Woori-Q Corporate Restructuring Private	2,111,137	20.0	122,032				122,032
Equity Fund	57,922	38.4	22,220			684	22,904
PCC-Woori LP Secondary Fund	20,923	38.8	8,126	_		2	8,128
Force TEC	1,526	25.8	393	_			393
Together-Korea Government Private Pool	1,320	23.0	373				373
Private Securities Investment Trust							
No.3	10,024	100.0	10,024			(1)	10,023
Genesis Environmental Energy Company	10,024	100.0	10,024			(1)	10,023
1st Private Equity Fund	16,074	24.8	3,979				3,979
Union Technology Finance Investment	10,074	24.0	3,717				3,717
Association	15,100	29.7	4,485				4,485
Uri Hanhwa Eureka Private Equity Fund	50,147	0.8	403	_	_	_	403
Godo Kaisha Oceanos 1	21,321	47.8	10,193	_	_		10,193
Japanese Hotel Real Estate Private Equity	21,321	77.0	10,193	_	_	_	10,193
Fund 2	16,278	19.9	3,234				3,234
Woori High plus G.B. Securities Feeder	10,276	17.7	3,234	_	_		3,234
Fund1(G.B.)	27,870	21.8	6,076				6,076
Woori G Senior Loan No.1	240,399	21.7	52,045	_	_		52,045
Woori G Clean Energy No.1	3,495	29.3	1,024	_			1,024
	3,493	29.3	1,024	_			1,024
Woori Goseong Power EBL Private Special	90,707	16.7	15,118				15,118
Asset Fund	90,707	10.7	13,116	_			13,116
Woori Seoul Beltway Private Special Asset	22 451	25.0	5 612				5 612
Fund	22,451	25.0	5,613	_	_	_	5,613
AJU TAERIM 1st Fund	1,106	25.6	283		_	_	283
Portone-Cape Fund No.1	4,800		960		_	_	960
KIWOOM PE AJU Investment Fund	10,929	9.1	994		_	_	994
Woori FirstValue Private Real Estate Fund	17.750	12.0	2 120				0.120
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	400 01 5	22.2	02.47.4				00.47:
ESG Bond Sec Feeder Inv Trust 1	402,015	23.3	93,474	_	_	_	93,474

14. INVESTMENT PROPERTIES

(1) Details of investment properties are as follows (Unit: Korean Won in millions):

	December 31, 2019	December 31, 2020
Acquisition cost	299,802	409,702
Accumulated depreciation	(19,563)	(22,152)
Accumulated impairment losses		(86)
Net carrying value	280,239	387,464

(2) Changes in investment properties are as follows (Unit: Korean Won in millions):

	For the years ended December 31		
	2018	2019	2020
Beginning balance ^(*)	371,301	178,910	280,239
Acquisition	15,195	70,346	76,588
Disposal	(3,045)	(193)	(353)
Depreciation	(4,045)	(2,225)	(2,689)
Transfer	7,623	32,394	30,431
Classified to assets held for sale	(10,056)		_
Foreign currencies translation adjustments	(5)	402	267
Business combination	_		10,557
Others	1,228	605	(7,576)
Ending balance	378,196	280,239	387,464

^{(*) 199,286} million Won was deducted from the beginning net carrying amount for the year 2019, as it was reclassified from the investment properties to premises and equipment in the beginning of the period.

^(*1) The net asset equity amount is after the debt-for-equity swap, non-controlling etc.

^(*2) 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.

^(*3) The estimated recoverable amount of 15,687 million Won at the time of liquidation was classified as receivable.

⁽³⁾ Fair value of investment properties amounted to 502,305 million Won and 750,659 million Won as of December 31, 2019 and 2020, 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 5,080 million Won, 10,106 million Won and 15,190 million Won for the years ended December 31, 2018, 2019 and 2020, respectively. Operating expenses directly related to the investment properties where rental fee was earned is amounting to 4,120 million Won, 3,010 million Won and 2,807 million Won for the years ended December 31, 2018, 2019 and 2020.

(5) The lease payments expected to be received in the future under lease contracts relating to investment properties as of December 31, 2019 and 2020 are as follows (Unit: Korean Won in millions):

	December 31, 2019	December 31, 2020
Lease payments:		
Within a year	6,574	11,553
More than 1 year and within 2 years	4,924	8,403
More than 2 years and within 3 years	4,018	7,545
More than 3 years and within 4 years	3,618	7,154
More than 4 years and within 5 years	3,126	4,312
More than 5 years	241	2,534
Total	22,501	41,501

15. PREMISES AND EQUIPMENT

(1) Details of premises and equipment as of December 31, 2019 and 2020 are as follows (Unit: Korean Won in millions):

		December 31, 2019						
	Land	Building	Equipment and vehicles	Leasehold improvement	Construction in progress	Structures	Total	
Premises and equipment								
(owned)	1,761,159	802,299	278,016	54,839	1,287	2	2,897,602	
Right-of-use asset	_	449,878	17,236		_	_	467,114	
Carrying value	1,761,159	1,252,177	295,252	54,839	1,287	2	3,364,716	
			De	ecember 31, 20	20			
	Land	Building	Equipment	Leasehold improvement	Construction	Structures	Total	
Premises and equipment	Land	Building	Equipment	Leasehold	Construction	Structures	Total	
Premises and equipment (owned)			Equipment	Leasehold	Construction	Structures 2	Total 2,839,643	
* *	1,726,045	787,040	Equipment and vehicles	Leasehold improvement	Construction in progress			

(2) Details of premises and equipment (owned) as of December 31, 2019 and 2020 are as follows (Unit: Korean Won in millions):

	December 31, 2019								
	Land	Building	Equipment and vehicles	Leasehold improvement	Construction in progress	Structures	Total		
Acquisition cost	1,761,819	1,063,756	1,123,101	463,181	1,287	20	4,413,164		
Accumulated depreciation	_	(261,457)	(845,085)	(408,342)	_	(18)	(1,514,902)		
Accumulated impairment									
losses	(660)						(660)		
Net carrying value	1,761,159	802,299	278,016	54,839	1,287	2	2,897,602		

December	31.	2020
December	JI	2020

	Land	Building		Leasehold improvement		Structures	Total
Acquisition cost	1,726,705	1,076,647	1,142,653	478,290	8,246	20	4,432,561
Accumulated depreciation	_	(289,607)	(874,428)	(428,205)	_	(18)	(1,592,258)
Accumulated impairment							
losses	(660)						(660)
Net carrying value	1,726,045	787,040	268,225	50,085	8,246	2	2,839,643

(3) Details of changes in premises and equipment (owned) are as follows (Unit: Korean Won in millions):

		For the year ended December 31, 2018							
	Land	Building	Equipment and vehicles	Leasehold improvement	Construction in progress	Structures	Total		
Beginning balance	1,487,278	680,846	180,072	64,787	64,559	3	2,477,545		
Acquisitions	1,372	14,701	76,783	17,527	8,285	_	118,668		
Disposals	(29)	_	(5,192)	(737)	(187)	_	(6,145)		
Depreciation	_	(26,014)	(76,171)	(32,162)		_	(134,347)		
Classified as held-for-sale	(3,651)	(2,592)	_	_		_	(6,243)		
Transfer	(2,863)	(4,760)	63,432	_	(63,432)	_	(7,623)		
Foreign currencies translation									
adjustments	(236)	(257)	(69)	323	(126)	_	(365)		
Business combination	_	_	969	661		_	1,630		
Others		(12)	189	7,195			7,372		
Ending balance	1,481,871	661,912	240,013	57,594	9,099	3	2,450,492		

		For the year ended December 31, 2019						
	Land	Building	Equipment and vehicles	Leasehold improvement	Construction in progress	Structures	Total	
Beginning balance	1,481,871	661,912	240,013	57,594	9,099	3	2,450,492	
Acquisitions	186,303	87,667	119,474	28,788	7,315	_	429,547	
Disposals	(3,015)	(2,245)	(1,203)	(2,738)		_	(9,201)	
Depreciation	_	(30,766)	(87,453)	(27,134)	_	(1)	(145,354)	
Classified as held-for-sale	(21)	(74)	_		_	_	(95)	
Transfer	93,956	83,260	3,670	912	(14,886)	_	166,912	
Foreign currencies translation								
adjustments	880	801	1,459	609	36	_	3,785	
Business combination	1,185	74	926	1	_	_	2,186	
Others		1,670	1,130	(3,193)	(277)		(670)	
Ending balance	1,761,159	802,299	278,016	54,839	1,287	2	2,897,602	

		For the year ended December 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	

(4) Details of right-of-use assets as of December 31, 2019 and 2020 are as follows (Unit: Korean Won in millions):

	December 31, 2019		
	Building	Equipment and vehicles	Total
Acquisition cost	615,201	25,563	640,764
Accumulated depreciation	(165,323)	(8,327)	(173,650)
Net carrying value	449,878	17,236	467,114
	D	ecember 31, 202	20
	Building	Equipment and vehicles	Total
Acquisition cost	720,417	28,463	748,880
Accumulated depreciation	(285,285)	(16,040)	(301,325)
Net carrying value	435,132	12,423	447,555

(5) Details of changes in right-of-use assets for the years ended December 31, 2019 and 2020 are as follows (Unit: Korean Won in millions):

	For the year ended December 31, 2019		
	Building	Equipment and vehicles	Total
Beginning balance	416,828	18,963	435,791
New contracts	251,992	8,306	260,298
Changes in contract		_	
Termination	(3,803)	(178)	(3,981)
Depreciation	(219,743)	(9,984)	(229,727)
Business combination	5,438	114	5,552
Others	(834)	15	(819)
Ending balance	449,878	17,236	467,114

For the year ended December 31, 2020		
Building	Equipment and vehicles	Total
449,878	17,236	467,114
224,494	6,831	231,325
10,729	32	10,761
(18,925)	(574)	(19,499)
(224,946)	(11,716)	(236,662)
3,210	381	3,591
(9,308)	233	(9,075)
435,132	12,423	447,555
	Building 449,878 224,494 10,729 (18,925) (224,946) 3,210 (9,308)	Building Equipment and vehicles 449,878 17,236 224,494 6,831 10,729 32 (18,925) (574) (224,946) (11,716) 3,210 381 (9,308) 233

16. INTANGIBLE ASSETS

(1) Details of intangible assets are as follows (Unit: Korean Won in millions):

	December 31, 2019						
	Goodwill	Industrial property rights	Development cost	Other intangible assets	Membership deposit	Construction in progress	Total
Acquisition cost Accumulated	350,682	1,576	517,224	1,036,445	32,583	4,066	1,942,576
amortization		(884)	(292,031)	(776,305)	_	_	(1,069,220)
losses				(25,993)	(3,253)		(29,246)
Net carrying value	350,682	692	225,193	234,147	<u>29,330</u>	4,066	<u>844,110</u>
	December 31, 2020						
				December 31,	2020		
	Goodwill	Industrial property rights	Development cost	Other intangible assets	Membership deposit	Construction in progress	Total
Acquisition cost	Goodwill 334,290	property		Other intangible	Membership		Total 2,079,836
1		property rights	cost	Other intangible assets	Membership deposit	in progress	
Accumulated amortization		property rights 1,810	<u>cost</u> 582,998	Other intangible assets 1,114,615	Membership deposit	in progress	2,079,836

(2) Details of changes in intangible assets are as follows (Unit: Korean Won in millions):

For the year ended December 31, 2018 Other Industrial Development intangible Membership Construction property Goodwill Total rights cost assets deposit in progress 108,707 539 77,241 158,218 20,685 153,209 518,599 Beginning balance 195 20,935 97,067 Acquisitions 52,044 5,162 175,403 (4,555)(7,426)Disposal (2,871)Amortization(*) (172)(46,045)(87,941)(134, 158)674 674 188,189 51,672 (239,861)Foreign currencies translation 46,752 763 47,515 adjustments (392)(53)(2,302)Business combination (1,857)(785)(785)562 240,320 169,024 23,597 10,415 597,520

^(*) Amortization of other intangible assets amounting to 51,770 million Won is included in other operating expenses.

	For the year ended December 31, 2019						
	Goodwill	Industrial property rights		Other intangible assets	Membership deposit	Construction in progress	Total
Beginning balance	153,602	562	240,320	169,024	23,597	10,415	597,520
Acquisitions	_	318	41,373	100,671	4,931	8,754	156,047
Disposal	_	_		_	(675)	_	(675)
Amortization ^(*)	_	(188)	(64,415)	(63,810)	_	_	(128,413)
Impairment losses	_	_		(25,858)	(939)	_	(26,797)
Transfer	_	_	7,915	7,188	_	(15,103)	_
Foreign currencies translation							
adjustments	10,234	_		2,292	60	_	12,586
Business combination	186,846	_		44,365	2,143	_	233,354
Others				275	213		488
Ending balance	350,682	692	225,193	234,147	29,330	4,066	844,110

^(*) Amortization of other intangible assets amounting to 22,317 million Won is included in other operating expenses.

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	(16,392)	_		(2,208)	(15)	(2)	(18,617)
Business combination	_	_	2,403	4,199	2,079	_	8,681
Others			(804)	328	395		(81)
Ending balance	334,290	709	208,873	205,445	36,091	6,669	792,077

^(*) Amortization of other intangible assets amounting to 11,890 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, 2019 and 2020 are as follows (Unit: Korean Won in million):

Cash-generating unit(*1)	December 31, 2019	December 31, 2020
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 ^(*2)	106,173	92,831
WB Finance Co., Ltd(*3)	49,374	47,924
Others	8,289	6,689
Total	350,682	334,290

^(*1) 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 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

^(*2) 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.

^(*3) The Group has acquired VisionFund Cambodia to expand Cambodian retail sales, and recognized goodwill based on the economies of scale and acquired customer base.

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	Saudara Indonesia 1906 Tbk	WB Finance Co., Ltd
Discount rate (%)	19.68	15.24	14.89	11.41	16.1
Terminal growth rate (%)	1.0	1.0	1.0	0.0	0.0
Recoverable amount	285,319	129,877	55,346	573,559	196,977
Carrying amount	238,857	126,522	30,475	571,704	142,224

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 values of Woori Asset Trust Co., Ltd., Woori Asset Management Corp., Woori Global Asset Management Co., Ltd., PT Bank Woori Saudara Indonesia 1906 Tbk and WB Finance Co., Ltd to 1.0%p changes in discount rate and terminal growth rate that are significant but unobservable inputs used in measuring fair values 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	(23,618)	(7,211)	(3,623)	(49,650)	(14,117)
	Decrease by 1.0% point	27,210	8,629	4,393	59,328	16,053
Terminal growth						
rate (%)	Increase by 1.0% point	13,798	5,033	2,660	38,031	7,904
	Decrease by 1.0% point(*)	(12,008)	(4,221)	(2,203)	_	_

^(*) In the case of PT Bank Woori Saudara Indonesia 1906 Tbk and WB Finance Co., Ltd, 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, 2019	December 31, 2020
Premises and equipment	94	2,130
Investments of associates	_	50,411
Others	10,462	7,461
Total	10,556	60,002

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 term 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 term has been sold and removed. In addition, the investment assets of the associates, which are counted as assets held for sale as of the end of the current term, are likely to be sold within one year of the end of the current term according to the management's decision. On the other hand, other assets that are expected to be sold as of the end of the current term are classified as assets held for sale since they are expected to be sold within one year due to the possibility of being sold as buildings and land acquired through auction.

^(*) The Group classifies assets as held for sale that are highly likely to be sold within one year from December 31, 2019 and December 31, 2020.

18. ASSETS SUBJECT TO LIEN AND ASSETS ACQUIRED THROUGH FORECLOSURES

(1) Assets subjected to lien are as follows (Unit: Korean Won in millions):

			December 31	, 2019
		Collateral given to	Amount	Reason for collateral
Financial assets at FVTPL	Korean treasury and government bonds and others	Nonghyup bank	19,720	Related to bonds sold under repurchase agreements(*)
	Korean corporate debt securities	Kookmin bank and others	168,327	Related to bonds sold under repurchase agreements(*)
	Korean corporate debt securities	Eugene investment & futures co., Ltd.	3,008	Collateral for futures transaction
	Korean financial institutions' debt securities and others	Nonghyup bank and others	219,938	Related to bonds sold under repurchase agreements(*)
Financial assets at FVTOCI	Korean financial institutions' debt securities and others	The BOK and others	5,127,383	Settlement risk and others
	Foreign financial institutions' debt securities	Spain BBVA and others	56,975	Related to bonds sold under repurchase agreements(*)
	Korean corporate debt securities	Nonghyup bank and others	9,042	Collateral for futures transaction
Securities at amortized cost	Korean treasury and government bonds	Korea Securities Depository	5,570	Related to bonds sold under repurchase agreements(*)
	Korean treasury and government bonds and others	The BOK and others	6,190,630	Settlement risk and others
	Foreign financial institutions' debt securities	NATIXIS and others	37,271	Related to bonds sold under repurchase agreements(*)
Loan at amortized cost and other financial assets	Due from banks in local currency	Branch of IBK at Phnom Penh and others	11,352	Collateral deposits for local currency borrowings
	Due from banks in local currency	Daishin AMC and others	1,500	Right of pledge
	Other due from banks in local currency	Samsung Securities Co., Ltd. and others		Margin deposit for futures or option
	Other due from banks in foreign currencies	Korea Investment & Securities Co., Ltd. and others	180,919	Foreign margin deposit for future or option and others
	Foreign currency loans	Industrial and Commercial Bank of China	82,594	Related to bonds sold under repurchase agreements(*)
Premises and equipment	Land and building	Credit Counselling & Recovery Service and others	689	Right to collateral and others
		Total	12,132,263	

^(*) 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,	, 2020
		Collateral given to	Amount	Reason for collateral
Financial assets at FVTPL	Korean treasury and government bonds and others	Kookmin bank and others	259,835	Related to bonds sold under repurchase agreements(*)
	Korean treasury and government bonds and others	Korea Securities Depository	157,021	Securities borrowing collateral
	Korean treasury and government bonds and others	Shinhan Investment Corp.	42,428	Collateral for futures transaction
	Korean financial institutions' debt securities and others	Korea Securities Depository	148,961	Securities borrowing collateral
	Korean financial institutions' debt securities and others	Kookmin bank and others	150,496	Related to bonds sold under repurchase agreements(*)
	Korean financial institutions' debt securities and others	TIMEFOLIO Co., Ltd.	19,958	Collateral for futures transaction
Financial assets at FVTOCI	Korean treasury and government bonds and others	Korea Securities Depository	473	Related to bonds sold under repurchase agreements(*)
	Korean financial institutions' debt securities and others	The BOK and others	1,621,941	Settlement risk and others
	Foreign financial institutions' debt securities	STANDARD BANKLONDON LTD	137,842	Related to bonds sold under repurchase agreements(*)
Securities at amortized cost	Korean treasury and government bonds and others	The BOK and others	8,111,193	Settlement risk and others
	Foreign financial institutions' debt securities	NATIXIS and others	40,987	Related to bonds sold under repurchase agreements(*)
	Foreign financial institutions' debt securities	Federal Reserve Bank	14,377	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	39,005	Margin deposit for futures or option
	Other due from banks in local currency	Korea Federation of Savings Banks	47,805	Domestic exchange business
	Other due from banks in foreign currencies	JPMORGAN CHASE BANK and others	755,177	Collateral for CSA and others
	Foreign currency loan	Industrial and Commercial Bank of China	50,088	Related to bonds sold under repurchase agreements(*)
Investment property	Mortgage loan Land and building	Public offering Credit Counselling & Recovery Service and others	3,190,889 5,676	Related to covered bonds Right to collateral and others
Premises and equipment	Land and building	Credit Counselling & Recovery Service and others	1,969	Right to collateral and others
		Total	14,797,621	

- (*) 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.
- (2) As of December 31, 2019 and 2020, assets acquired through foreclosures are as follows (Unit: Korean Won in millions):

	December 31, 2019	December 31, 2020
Investment properties		
Land	_	5,425
Other assets		
Land for non-business use	27	10,684
Building for non-business use	_	1,966
Movables for non-business use	_	155
Real estate assessment provision for non-business use	(27)	(670)
Sub-total	_	12,135
Assets held for sale		
Land	5,143	5,477
Building	4,742	3,568
Others	577	546
Sub-total	10,462	9,591
Total	10,462	27,151

(3) Securities loaned are as follows (Unit: Korean Won in millions):

		December 31, 2019	December 31, 2020	Loaned to
Financial assets at	Korean treasury and			Korea Securities Finance
FVTOCI	government bonds	80,737	100,345	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, and therefore the Group did not derecognize from the consolidated financial statements.

(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, 2019 and 2020 are as follows (Unit: Korean Won in millions):

	Decembe	er 31, 2019
	Fair values of collaterals	Fair values of collaterals were disposed or re-subjected to lien
Securities	9,340,517	_
_	Decembe	er 31, 2020
_	Fair values of collaterals	Fair values of collaterals were disposed or re-subjected to lien
Securities	10,573,982	-

19. OTHER ASSETS

Details of other assets are as follows (Unit: Korean Won in millions):

	December 31, 2019	December 31, 2020
Lease assets	_	1,116,175
Prepaid expenses	135,010	170,820
Advance payments	78,306	28,256
Assets for non-business use	_	12,135
Others	20,330	21,608
Total	233,646	1,348,994

20. FINANCIAL LIABILITIES AT FVTPL

(1) Financial liabilities at FVTPL are as follows (Unit: Korean Won in millions):

December 31, 2019	December 31, 2020
2,870,676	6,794,192
87,626	19,630
2,958,302	6,813,822
	2019 2,870,676 87,626

(2) Financial liabilities at fair value through profit or loss measured at fair value are as follows (Unit: Korean Won in millions):

	December 31, 2019	December 31, 2020
Deposits		
Gold banking liabilities	27,530	49,279
Borrowings		
Securities sold		285,026
Derivative liabilities	2,843,146	6,459,887
Total	2,870,676	6,794,192

(3) Financial liabilities at fair value through profit or loss designated as upon initial recognition as of December 31, 2019 and 2020 are as follows (Unit: Korean Won in millions):

	2019	2020
Equity-linked securities		
Equity-linked securities in short position	87,626	19,630

Financial liabilities at fair value through profit or loss designated as upon initial recognition are designated in order to eliminate or significantly reduce accounting mismatch arising from recognition or measurement.

(4) There are no accumulated changes in credit risk adjustments to financial liabilities at fair value through profit or loss designated as upon initial recognition.

The adjustment to reflect Group's credit risk is considered in measuring the fair value of equity-linked securities index. The Group's credit risk is determined by adjusting credit spread observed in credit rating of Group.

(5) The difference between carrying amount and maturity amount of financial liabilities at fair value through profit or loss designated as upon initial recognition are as follows (Unit: Korean Won in millions):

	December 31, 2019	December 31, 2020
Carrying amount	87,626	19,630
Nominal amount at maturity	97,503	25,780
Difference	(9,877)	(6,150)

21. DEPOSITS DUE TO CUSTOMERS

Details of deposits due to customers by type are as follows (Unit: Korean Won in millions):

	December 31, 2019	December 31, 2020
Deposits in local currency		
Deposits on demand	8,655,228	12,454,024
Deposits at termination	224,115,771	242,397,664
Mutual installment	28,574	26,319
Deposits on notes payables	2,174,995	2,647,492
Deposits on CMA	150,300	110,413
Certificate of deposits	973,625	2,072,389
Other deposits	1,451,470	1,372,461
Sub-total	237,549,963	261,080,762
Deposits in foreign currencies		
Deposits in foreign currencies	27,143,710	30,408,762
Present value discount	(8,095)	(12,245)
Total	264,685,578	291,477,279

22. BORROWINGS AND DEBENTURES

(1) Details of borrowings are as follows (Unit: Korean Won in millions):

	December 31, 2019		
	Lenders	Interest rate (%)	Amount
Borrowings in local currency			
Borrowings from The BOK	The BOK	$0.5 \sim 0.8$	1,770,726
Borrowings from government funds	Small Enterprise And Market		
	Service and others	$0.0 \sim 2.8$	1,844,798
Others	The Korea Development Bank		
:	and others	$0.0 \sim 5.0$	6,070,201
Sub-total			9,685,725
Borrowings in foreign currencies(*)			
Borrowings in foreign currencies	The Export-Import Bank of Korea		
;	and others	$(0.3) \sim 8.3$	8,566,872
Offshore borrowings in foreign currencies	HSBC, HKG	3.0	34,734
Sub-total			8,601,606
Bills sold	Others	0.0 ~1.6	9,367
Call money	Bank and others	$(0.3) \sim 3.5$	133,519
Bonds sold under repurchase agreements	Other financial institutions	$1.4 \sim 12.7$	569,002
Present value discount			(299)
Total			18,998,920

^(*) Included borrowing in foreign currencies under cash flow hedge amounting to 34,443 million Won as of December 31, 2019.

	December 31, 2020		
	Lenders	Interest rate (%)	Amount
Borrowings in local currency			
Borrowings from The BOK	The BOK	0.3	2,678,120
Borrowings from government funds	Small Enterprise And Market		
	Service and others	$0.0 \sim 5.0$	2,155,129
Others	The Korea Development Bank		
	and others	$0.0 \sim 5.5$	7,255,938
Sub-total			12,089,187
Borrowings in foreign currencies			
Borrowings in foreign currencies	JPMorgan Chase & Co. and		
	others	$(0.4) \sim 7.3$	7,573,722
Bills sold	Others	$0.0 \sim 0.9$	8,924
Call money	Bank and others	$(0.3) \sim 3.8$	416,370
Bonds sold under repurchase agreements	Other financial institutions	$(0.5) \sim 10.6$	657,823
Present value discount			(560)
Total			20,745,466

(2) Details of debentures are as follows (Unit: Korean Won in millions):

	December 31, 2019		December 31, 2020	
	Interest rate (%)	Amount	Interest rate (%)	Amount
Face value of bond(*):				
Ordinary bonds	$0.0 \sim 4.3$	23,207,600	$0.8 \sim 4.5$	29,623,445
Subordinated bonds	$2.1 \sim 5.9$	6,732,687	$1.9 \sim 5.9$	6,955,515
Other bonds	$1.2 \sim 17.0$	942,421	$0.6 \sim 17.0$	925,677
Sub-total		30,882,708		37,504,637
Discounts on bonds		(24,653)		(25,279)
Total		30,858,055		37,479,358

^(*) Included debentures under fair value hedge amounting to 3,151,172 million Won and 2,767,208 million Won as of December 31, 2019 and 2020 respectively. Also, debentures under cash flow hedge amounting to 829,082 million Won and 857,531 million Won are included as of December 31, 2019 and 2020 respectively.

23. PROVISIONS

(1) Details of provisions are as follows (Unit: Korean Won in millions):

	<u>December 31, 2019</u>	December 31, 2020
Asset retirement obligation	66,485	68,402
Provisions for guarantees ^(*1)		89,592
Provisions for unused loan commitments	112,554	122,155
Other provisions ^(*2)	172,455	221,494
Total	443,980	501,643

^(*1) Provisions for guarantees includes provision for financial guarantee of 62,764 million Won and 66,232 million Won as of December 31, 2019 and 2020, respectively.

(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, 2018			
	Stage 1	Stage 2	Stage 3	Total
Beginning balance(*1)	47,132	18,281	127,511	192,924
Transfer to 12-month expected credit loss	92	(92)	_	_
Transfer to expected credit loss for the entire period	(237)	91,008	(90,771)	_
Transfer to credit-impaired financial assets	(38)	(29)	67	_
Provisions used	(20,429)	_	_	(20,429)
Net reversal of unused amount	(4,866)	` ' /		(105,985)
Others ^(*2)	23,249	2		23,251
Ending balance	44,903	33,760	11,098	89,761

^(*1) The beginning balance was restated in accordance with IFRS 9.

^(*2) Other provisions consist of provision for litigation, loss compensation and others.

^(*2) Others have occurred as a result of new financial guarantee contract valued at initial fair value.

	For the year ended December 31, 2019			
	Stage 1	Stage 2	Stage 3	Total
Beginning balance	44,903	33,760	11,098	89,761
Transfer to 12-month expected credit loss	13,568	(13,568)	_	_
Transfer to expected credit loss for the entire period	(317)	532	(215)	_
Transfer to credit-impaired financial assets	(30)	(32)	62	_
Provisions used	(27,711)	_	_	(27,711)
Net provision (reversal) of unused amount	(14,400)	5,611	4,437	(4,352)
Others ^(*)	34,788			34,788
Ending balance	50,801	26,303	15,382	92,486

(*) Others have occurred as a result of new financial guarantee contract valued at initial fair value.

	For the year ended December 31, 2020			
	Stage 1	Stage 2	Stage 3	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 reversal of unused amount	(1,124)	(11,124)	(6,100)	(18,348)
Business Combination	14,501	_	_	14,501
Others ^(*)	953			953
Ending balance	64,804	16,745	8,043	89,592

^(*) Others have occurred 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, 2018			
	Stage 1	Stage 2	Stage 3	Total
Beginning balance ^(*)	75,232	27,875	1,878	104,985
Transfer to 12-month expected credit loss	7,770	(7,396)	(374)	_
Transfer to expected credit loss for the entire period	(2,376)	2,525	(149)	_
Transfer to credit-impaired financial assets	(213)	(1,579)	1,792	_
Net provision (reversal) of unused amount	(5,813)	23,860	(1,521)	16,526
Others	24			24
Ending balance	74,624	<u>45,285</u>	1,626	121,535

^(*) The beginning balance was restated in accordance with IFRS 9.

	For the year ended December 31, 2019			
	Stage1	Stage2	Stage3	Total
Beginning balance	74,624	45,285	1,626	121,535
Transfer to 12-month expected credit loss	11,771	(11,024)	(747)	_
Transfer to expected credit loss for the entire period	(1,813)	1,945	(132)	_
Transfer to credit-impaired financial assets	(213)	(275)	488	_
Net provision (reversal) of unused amount	(19,394)	7,233	3,117	(9,044)
Others	63			63
Ending balance	65,038	43,164	4,352	112,554
				=======================================
	For the	year ended	December	r 31, 2020
	For the Stage1	year ended Stage2	December Stage3	Total
Beginning balance	Stage1			
Beginning balance	Stage1 65,038	Stage2	Stage3	Total
<u> </u>	Stage1 65,038 8,006	Stage2 43,164	Stage3 4,352	Total
Transfer to 12-month expected credit loss	Stage1 65,038 8,006 (2,704)	Stage2 43,164 (7,500)	Stage3 4,352 (506)	Total
Transfer to 12-month expected credit loss	Stage1 65,038 8,006 (2,704) (174)	Stage2 43,164 (7,500) 3,299	Stage3 4,352 (506) (595)	Total
Transfer to 12-month expected credit loss	Stage1 65,038 8,006 (2,704) (174) (6,653)	Stage2 43,164 (7,500) 3,299 (186)	Stage3 4,352 (506) (595) 360	Total 112,554 — —
Transfer to 12-month expected credit loss Transfer to expected credit loss for the entire period Transfer to credit-impaired financial assets Net provision (reversal) of unused amount	Stage1 65,038 8,006 (2,704) (174) (6,653) 7	Stage2 43,164 (7,500) 3,299 (186)	Stage3 4,352 (506) (595) 360	Total 112,554 — —

(3) Changes in asset retirement obligation for the years ended December 31, 2018, 2019 and 2020, are as follows (Unit: Korean Won in millions):

	For the years ended December 31		
	2018	2019	2020
Beginning balance	61,872	67,200	66,485
Provisions provided	1,489	2,729	806
Provisions used	(913)	(2,276)	(2,958)
Reversal of provisions unused	(1,038)	(2,926)	(106)
Unwinding of discount	564	435	459
Business combination	_	329	219
Others	5,226	994	3,497
Ending balance	67,200	66,485	68,402

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, 2020, 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, 2018, 2019 and 2020, are as follows (Unit: Korean Won in millions):

	For the years ended December 31		
	2018	2019	2020
Beginning balance	58,791	63,637	172,455
Provisions provided	8,384	109,875	232,629
Provisions used	(6,940)	(6,123)	(181,433)
Reversal of provisions unused	(52)	(171)	(2,345)
Foreign currencies translation adjustments	(194)	1,193	606
Transfer	_	_	(344)
Business combination	_	3,820	_
Others	3,648	224	(74)
Ending balance	63,637	172,455	221,494

(5) Others

- 1) The Group has been offering Korean Won settlement services for trade with Korea and Iran; however, the Group has stopped the services for trade in line with U.S. economic sanctions on September 23, 2019. The Group resumed the service humanitarian goods trade only since July 13, 2020. In connection with these services, the Group is currently being investigated by the U.S. government agencies including the U.S. prosecutors (United States Attorney's Office and New York State Attorney General's Office) and New York State Financial Supervisory Service as to whether the Group has violated United States laws by participating in prohibited transactions involving the following countries: Iran, Sudan, Syria and Cuba, which have been sanctioned by the U.S. In this regard, the Bureau of Foreign Assets Control concluded its investigation in December 2020 without taking any additional sanctions, but the investigation procedures of the U.S. Public Prosecutors' Office and the New York State Financial Supervisory Service have yet to be completed.
- 2) The Group recognized the provision of the estimated compensation amount related to the miss-selling of the Derivative Linked Fund (DLF) incurred during the previous year 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.
- 3) For the year ended December 31, 2020, the Group recognized the provisions for the required expenditure as the best estimate to fulfill its obligations as of December 31, 2020 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, 2020, the provision for this case is 106.8 billion Won and the advance payment is 113.9 billion Won.

24. NET DEFINED BENEFIT LIABILITY(ASSET)

The characteristics of the Group's defined benefit retirement pension plans are as follows:

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, 2019	December 31, 2020
Present value of defined benefit obligation	1,442,859	1,610,680
Fair value of plan assets	(1,352,971)	(1,564,101)
Net defined benefit liabilities ^(*)	89,888	46,579

^(*) Net defined benefit liability of 89,888 million Won and 46,579 million Won as of December 31, 2019 and 2020 is the subtracted amount of the net defined benefit asset of 2,582 million Won 5,658 million Won from the net defined benefit liability of 92,470 million Won and 52,237 million Won.

(2) Changes in the carrying value of defined benefit obligation are as follows (Unit: Korean Won in millions):

	For the years ended December 31		
	2018	2019	2020
Beginning balance	1,071,170	1,275,020	1,442,859
Transfer-in / out		93	_
Current service cost	144,394	163,369	174,509
Interest cost	32,143	32,693	34,653
Remeasurements Financial assumption	59,429	32,831	(20,838)
Demographic assumptions	7,728	49,453	4,161
Experience adjustment	33,697	(33,518)	(4,481)
Foreign currencies translation adjustments	(3)	179	(55,864)
Retirement benefit paid	(74,952)	(79,908)	(119)
Business combination		4,674	34,001
Others	1,414	(2,027)	1,799
Ending balance	1,275,020	1,442,859	1,610,680

(3) Changes in the plan assets are as follows (Unit: Korean Won in millions):

	For the years ended December 31			
	2018	2019	2020	
Beginning balance	1,027,906	1,101,911	1,352,971	
Transfer-in / out		93		
Interest income	33,825	30,937	34,534	
Remeasurements	(14,783)	125	(7,666)	
Employer's contributions	128,926	292,095	211,505	
Retirement benefit paid	(71,672)	(76,304)	(52,627)	
Business combination		6,369	(2,215)	
Others	(2,291)	(2,255)	27,599	
Ending balance	1,101,911	1,352,971	1,564,101	

(4) Fair value of plan assets as of December 31, 2019 and 2020 are as follows (Unit: Korean Won in millions):

	December 31, 2019	December 31, 2020
Cash and due from banks	 1,352,971	1,564,101

Meanwhile, among plan assets, realized returns on plan assets amount to 19,042 million Won, 31,062 million Won and 26,868 million Won for the years ended December 31, 2018, 2019 and 2020, respectively. The contribution expected to be paid in the next accounting year amounts to 170,637 million Won.

(5) Current service cost, net interest income, loss (gain) on the curtailment or settlement and remeasurements recognized in the consolidated statements comprehensive income are as follows (Unit: Korean Won in millions):

	For the years ended December 31		
	2018	2019	2020
Current service cost	144,394	163,369	174,509
Net interest income (expense)	(1,682)	1,756	119
Cost recognized in net income	142,712	165,125	174,628
Remeasurements ^(*)	115,637	48,641	(13,492)
Cost recognized in total comprehensive income	258,349	213,766	<u>161,136</u>

^(*) Amount before tax

Meanwhile, retirement benefits related to defined contribution plans recognized as expenses are 2,437 million Won, 3,297 million Won and 3,827 million Won for the years ended December 31, 2018, 2019 and 2020, respectively.

(6) Key actuarial assumptions used in net defined benefit liability measurement are as follows:

	December 31, 2018	December 31, 2019	December 31, 2020
Discount rate	2.69%	2.18 ~ 2.50%	2.13% ~ 2.97%
Future wage growth rate	6.18%	$1.89 \sim 6.00\%$	$2.05\% \sim 7.00\%$
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	Experience rate for	Experience rate for
	each employment	each employment	each employment
	classification	classification	classification

The weighted average maturity of defined benefit liability is a minimum of 6.74 to a maximum 15.00 years.

(7) The sensitivity to actuarial assumptions used in the assessment of defined benefit obligation is as follows (Unit: Korean Won in millions):

		December 31, 2019	December 31, 2020
Discount rate	Increase by 1% point	(151,104)	(165,754)
	Decrease by 1% point	178,434	195,475
Future wage growth rate	Increase by 1% point	176,169	193,149
	Decrease by 1% point	(152,174)	(167,037)

25. OTHER FINANCIAL LIABILITIES AND OTHER LIABILITIES

Other financial liabilities and other liabilities are as follows (Unit: Korean Won in millions):

	December 31, 2019	December 31, 2020
Other financial liabilities:		
Accounts payable	6,131,339	4,028,639
Accrued expenses	2,516,231	2,049,401
Borrowings from trust accounts	3,277,795	2,984,031
Agency business revenue	362,820	466,485
Foreign exchange payables	1,153,457	789,189
Domestic exchange settlement credits	1,261,928	180,251
Lease liabilities	419,045	407,431
Other miscellaneous financial liabilities	2,587,193	3,317,358
Present value discount	(3,041)	(6,968)
Sub-total	17,706,767	14,215,817
Other liabilities:		
Unearned income	224,840	254,702
Other miscellaneous liabilities	195,631	219,111
Sub-total	420,471	473,813
Total	18,127,238	14,689,630

26. DERIVATIVES

(1) Derivative assets and derivative liabilities are as follows (Unit: Korean Won in millions):

	December 31, 2019						
	Assets Liabilities						
	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	124,737	_	_	_	_	_	_
Swaps	150,731,987	_	111,764	300,750	1,323	—	413,195
Purchase options	460,000	_	_	11,888	_	_	_
Written options	395,789	_	_	_	_	_	9,655
Currency:							
Futures	1,934	_	_	_	_	_	_
Forwards	113,988,295	_	_	1,447,811	321	_	1,030,246
Swaps	82,125,050	9,367	_	966,181	5,193	_	1,106,423
Purchase options	1,588,746	_	_	18,835	_	_	_
Written options	2,341,179	_	_	_	_	—	9,403
Equity:							
Futures	630,562	_	_	_	_	_	_
Forwards	11	_	_	_	_	—	_
Swaps	1,280,436	_	_	1,217	_	_	54,393
Purchase options	8,851,984	_	_	175,221	_	—	_
Written options	8,978,953						219,831
Total	371,499,663	9,367	111,764	2,921,903	6,837		2,843,146
			Dece	ember 31, 2020			
			Assets			Liabilitie	es
	Nominal amount	For cash flow hedge	For fair value		For cash flow	For fair	
	amount	neuge	hedge	For trading	hedge	value hedge	For trading
Interest rate:		neuge	_hedge_	For trading			For trading
Interest rate: Futures			hedge	For trading —			For trading
Futures	184,413				hedge	hedge	
Futures Swaps	184,413 137,057,240			318,545			For trading — 524,190
Futures	184,413				hedge	hedge	
Futures Swaps	184,413 137,057,240 330,000			318,545	hedge	hedge	524,190
Futures	184,413 137,057,240 330,000			318,545	hedge	hedge	524,190
Futures	184,413 137,057,240 330,000 285,440			318,545	hedge	hedge	524,190
Futures Swaps Purchase options Written options Currency: Futures Forwards	184,413 137,057,240 330,000 285,440 2,546 105,146,634			318,545 6,271 — 2,541,957	1,476	hedge	524,190
Futures Swaps Purchase options Written options Currency: Futures Forwards Swaps	184,413 137,057,240 330,000 285,440 2,546 105,146,634 87,249,320			318,545 6,271 — 2,541,957 3,325,135	hedge	hedge	524,190 - 5,419
Futures Swaps Purchase options Written options Currency: Futures Forwards Swaps Purchase options	184,413 137,057,240 330,000 285,440 2,546 105,146,634			318,545 6,271 — 2,541,957	1,476	hedge	524,190 5,419 5,419 2,848,980 2,415,610
Futures Swaps Purchase options Written options Currency: Futures Forwards Swaps Purchase options Written options	184,413 137,057,240 330,000 285,440 2,546 105,146,634 87,249,320 1,147,877			318,545 6,271 — 2,541,957 3,325,135	1,476	hedge	524,190
Futures Swaps Purchase options Written options Currency: Futures Forwards Swaps Purchase options	184,413 137,057,240 330,000 285,440 2,546 105,146,634 87,249,320 1,147,877			318,545 6,271 — 2,541,957 3,325,135	1,476	hedge	524,190 5,419 5,419 2,848,980 2,415,610
Futures Swaps Purchase options Written options Currency: Futures Forwards Swaps Purchase options Written options Equity:	184,413 137,057,240 330,000 285,440 2,546 105,146,634 87,249,320 1,147,877 1,632,048			318,545 6,271 — 2,541,957 3,325,135	1,476	hedge	524,190 5,419 5,419 2,848,980 2,415,610
Futures Swaps Purchase options Written options Currency: Futures Forwards Swaps Purchase options Written options Equity: Futures	184,413 137,057,240 330,000 285,440 2,546 105,146,634 87,249,320 1,147,877 1,632,048 123,742			318,545 6,271 — 2,541,957 3,325,135	1,476	hedge	524,190 5,419 5,419 2,848,980 2,415,610
Futures Swaps Purchase options Written options Currency: Futures Forwards Swaps Purchase options Written options Equity: Futures Forwards Swaps Swaps Futures Forwards Swaps	184,413 137,057,240 330,000 285,440 2,546 105,146,634 87,249,320 1,147,877 1,632,048 123,742 11			318,545 6,271 — 2,541,957 3,325,135	1,476	hedge	524,190 5,419 5,419 2,848,980 2,415,610 23,271
Futures Swaps Purchase options Written options Currency: Futures Forwards Swaps Purchase options Written options Equity: Futures Forwards	184,413 137,057,240 330,000 285,440 2,546 105,146,634 87,249,320 1,147,877 1,632,048 123,742 11 269,039			318,545 6,271 — 2,541,957 3,325,135 59,329 —	1,476	hedge	524,190 5,419 5,419 2,848,980 2,415,610 23,271

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, USD 6M LIBOR and AUD 3M BBSW. The nominal amounts of hedging instruments related to 3M LIBOR, 6M LIBOR and 3M BBSW in the hedging relationships of the Group are USD 1,800,000,000, USD 500,000,000 and AUD 150,000,000, 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 the December 31, 2020, the Group has applied fair value hedge on fixed interest rate foreign currency denominated debentures amounting to 2,767,208 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 (6M) plus spread and AUD BBSW 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, 2020, the Group has applied cash flow hedge on local currency denominated debentures amounting to 149,936 million Won, debentures on foreign currency amounting to 707,595 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 and ④ Mitigate the risks of cash flow fluctuation in variable interest rate foreign currency borrowings resulting from changes in market interest rates and designate it as a hedging instrument through entering into currency swap contracts and interest rate swap contracts.

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) The nominal amounts of the hedging instrument are as follows (Unit: USD, AUD, EUR, SGD, JPY and Korean Won in millions):

December 31, 2019				
1 year or less	1 year to 5 years	More than 5 years	Total	
350,000,000	2,000,000,000	300,000,000	2,650,000,000	
_	26,635,556	_	26,635,556	
_	100,000	_	100,000	
150,000,000	330,000,000	_	480,000,000	
136,000,000	68,000,000	_	204,000,000	
49,325,155	1,059,903,932	_	1,109,229,087	
	350,000,000 — — 150,000,000 136,000,000	1 year or less 1 year to 5 years 350,000,000 2,000,000,000 — 26,635,556 100,000 — 330,000,000 150,000,000 330,000,000 136,000,000 68,000,000	1 year or less 1 year to 5 years More than 5 years 350,000,000 2,000,000,000 300,000,000 — 26,635,556 — — — 100,000 — 150,000,000 330,000,000 — 136,000,000 68,000,000 —	

Fair value hedge Interest rate risk Interest rate swap (USD) Interest rate swap (AUD)		December 31, 2020					
Interest rate risk Interest rate swap (USD) Interest rate swap (AUD)	1 year or less	1 year to 5 years	More than 5 years	Total			
Interest rate risk Interest rate swap (USD) Interest rate swap (AUD)	1 year or less	years	years	Total			
Interest rate swap (USD) Interest rate swap (AUD)							
=		1,000,000,000 150,000,000	300,000,000	2,300,000,000 150,000,000			
Cash flow hedge							
Interest rate risk							
Interest rate swap (KRW) Foreign currencies translation risk and interest rate risk	. 100,000	50,000	_	150,000			
Currency swap (USD) Foreign currencies translation risk	. 130,000,000	470,000,000	_	600,000,000			
Currency swap (SGD)	. 68,000,000	_	_	68,000,000			
(4) The average interest rate and average curre 2020 are as follows:	ency rate of the hed	ging instrument	as of December	r 31, 2019 and			
		December 3	1, 2019				
	Averag	e interest rate and a	verage exchange	rate			
Fair value hedge							
Interest rate risk Interest rate swap (USD)	Fixed 3.96% receipt and Libor 3M+1.61% floating paid Fixed 5.88% receipt and Libor 6M+2.15% floating paid						
Cash flow hedge							
Interest rate risk	21/1	ELIDIDOD	EIID 0 000/:	1			
Interest rate swap (EUR) Interest rate swap (KRW)		EURIBOR receipt, 3Y CMS+0.40% 1					
Foreign currencies translation risk and	III	31 CM310.10701	ессірі, 2.30 % ра	iid			
interest rate risk							
Currency swap (USD)	USD 3M Libor+0.8						
E-minin-todelin vial-	USD 1M Libor+0.5	4% receipt, KRW	1.53% paid, KR	W/USD = 1,158			
Foreign currencies translation risk Currency swap (SGD)	SGD 1 91% 1	receipt, KRW 1.98	% paid KRW/S	GD = 828			
Currency forward (JPY)	3GD 1.7170 I	KRW/JPY =		3D = 020			
		December 3	1. 2020				
	Averag	e interest rate and a		rate			
Fair value hedge							
Interest rate risk							
Interest rate swap (USD)	Fixed 5.88%	b receipt and Libor for receipt and Libor	6M+2.15% float	ing paid			
	0.84%	6 receipt and BBS	W 3M+0.72% pa	id			
Interest rate swap (AUD) Cash flow hedge							
Cash flow hedge Interest rate risk							
Cash flow hedge	KR	3Y CMS+0.40% 1 W CD+0.69% rec W CD+0.33% rec	eipt, 2.06% paid	id			
Cash flow hedge Interest rate risk Interest rate swap (KRW) Foreign currencies translation risk and	KR	W CD+0.69% rec	eipt, 2.06% paid	id			
Cash flow hedge Interest rate risk Interest rate swap (KRW)	KR	RW CD+0.69% rec RW CD+0.33% rec 80% receipt, KRW 87% receipt, KRW	eipt, 2.06% paid eipt, 1.68% paid 1.45% paid, USI 1.14% paid, USI	D/KRW = 1,155 D/KRW = 1,190			

(5) The amounts related to items designated as hedging instruments are as follows (Unit: Korean Won in millions, USD, AUD, EUR, SGD and JPY):

	December 31, 2019					
	Nominal amounts of the hedging instrument	Carrying am hedging in 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 2,650,000,000	111,764	_	Derivative assets (designated for hedging)	90,244	
Cash flow hedge						
Interest rate risk	EUD 04 405 554		42	5	(42)	
Interest rate swap	EUR 26,635,556		43	Derivative liabilities (designated for hedging)	(43)	
Interest rate swap	KRW 100,000		1,280	Derivative liabilities (designated for hedging)	(615)	
Foreign currency translation risk and interest rate risk				(designment for medging)		
Currency swap	USD 480,000,000	4,070	5,193	Derivative assets (designated for hedging) Derivative liabilities (designated for hedging)	22,364	
Foreign currency translation						
risk						
Currency swap	SGD 204,000,000	5,297		Derivative assets	8,918	
Currency forward	JPY 1,109,229,087	_	321	(designated for hedging) Derivative liabilities	321	
				(designated for hedging)		
			December	31, 2020		
	Nominal amounts of	Carrying am		Line item in the statement of financial position where the	Changing in fair value used for	
	the hedging instrument	Assets	Liabilities	hedging instrument is located	calculating hedge ineffectiveness	
Fair value hedge						
Interest rate risk						
Interest rate swap	USD 2,300,000,000	174,820	28	Derivative assets (designated for hedging)	57,221	
Interest rate swap	AUD 150,000,000			Derivative liabilities (designated for hedging)		
Cash flow hedge				(**** & ***** * *** & ***		
Interest rate risk						
Interest rate swap	KRW 150,000	_	1,476	Derivative liabilities (designated for hedging)	(196)	
Foreign currency translation risk and interest rate risk						
Currency swap	USD 600,000,000	_	62,893	Derivative liabilities (designated for hedging)	(69,319)	
Foreign currency translation risk						
Currency swap	SGD 68,000,000	_	373	Derivative liabilities (designated for hedging)	(4,699)	

(6) Details of carrying amount to hedge and amount due to hedge accounting are as follows (Unit: Korean Won in millions):

				December 31,	2019		
	Carrying amounts of the hedged item		value hedge the hedged the carryin	ed amount of fair e adjustments on item included in ng 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	included	ineffectiveness	reserve(*)
Fair value hedge Interest rate risk Debentures Cash flow hedge	_	3,151,172	_	91,368	Debentures	(85,984)	_
Interest rate risk Borrowings in foreign					Borrowing foreign		
currencies		34,443	_		currency	43	(43)
Debentures Foreign currencies translation risk and interest rate risk	_	99,941	_	_	Debentures	663	(821)
Debentures Foreign currencies translation risk		554,433	_	_	Debentures	(25,057)	(2,525)
Debentures	_	174,708	_	_	Debentures	(8,315)	(2,304)
(*) After tax amount	Carrying am		Accumulate value hedge the hedged the carryin	Changing in fair value used for calculating	Cash flow		
	hedge			ged item	in which the hedged item is	hedge	hedge
	Assets	Liabilities	Assets	Liabilities	included	ineffectiveness	reserve(*)
Fair value hedge Interest rate risk Debentures Cash flow hedge Interest rate risk	_	2,767,208	_	144,741	Debentures	(59,073)	_
Debentures Foreign currencies translation risk and interest rate	_	149,936	_	_	Debentures	188	(909)
risk Debentures Foreign currencies translation risk	_	651,704	_	_	Debentures	61,823	(95)
Debentures	_	55,891	_	_	Debentures	6,564	(268)
(*) 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 ye	ear ended December 31, 2018
		Hedge ineffectiveness recognized in profit or loss	Line item in the profit or loss that includes hedge ineffectiveness
Fair value hedge	Interest rate risk	. (1,864)	Other net operating income (expense)
		For the ye	ear ended December 31, 2019
		Hedge ineffectiveness recognized in profit or loss	Line item in the profit or loss that includes hedge ineffectiveness
Fair value hedge	Interest rate risk	. 4,260	Other net operating income (expense)
		For the ye	ear 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)

(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, 2018					
		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 income		Other net operating income
	Interest rate risk	(517)	(148)	_	(expense)	_	(expense)
	Foreign currencies translation risk and interest rate	, ,	, ,		Other net operating income		Other net operating income
	risk	21,429	153	(882)	(expense)	(23,084)	(expense)
	Б				Other net operating		Other net operating
	Foreign currencies translation risk	2,353	_	(491)	income (expense)	(3,601)	income (expense)
	u ansiauon risk	4,333	_	(491)	(expense)	(3,001)	(expense)

			For	the year ended	l December 31, 2	019	
		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					Other net		Other net
hedge					operating		operating
	Interest rate risk	(650)			income		income
		(658)	_	_	(expense) Other net	_	(expense) Other net
	Foreign currencies translation risk				operating		operating
	and interest rate				income		income
	risk	21,420	944	838	(expense)	(23,541)	(expense)
	115K	21,420	744	030	Other net	(23,341)	Other net
					operating		operating
	Foreign currencies				income		income
	translation risk	7,638	1,601	560	(expense)	(8,215)	(expense)
			Fo	r the vear ende	ed December 31,	2020	
				Changes	,		
		Changes in the value of hedging instruments recognized in OCI	Hedge		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					Other net		Other net
hedge					operating income		operating income
	Interest rate risk Foreign currencies translation risk	(122)	(74)	_	(expense) Other net operating	_	(expense) Other net operating
	and interest rate				income		income
	risk	(68,270)	(1,049)	5,893	(expense)	64,762	(expense)
		(,,	() /	- ,	Other net operating	- , -	Other net operating
	Foreign currencies				income		income

27. DEFERRED DAY 1 PROFITS OR LOSSES

translation risk . . .

Changes in deferred day 1 profits or losses are as follows (Unit: Korean Won in millions):

(3,677)

	For the ye	ember 31	
	2018	2019	2020
Beginning balance	7,416	25,463	52,259
New transactions	23,678	53,289	22,901
Amounts recognized in losses	(5,631)	(26,493)	(68,221)
Ending balance	25,463	52,259	6,939

(1,022)

320

(expense)

5,393

(expense)

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, which is deferred and amortized to maturity using the effective interest method and reflected in profit and loss. The table above presents the difference yet to be realized as profit or losses.

28. EQUITY

(1) Details of equity as of December 31, 2019 and 2020 are as follows (Unit: Korean Won in millions):

	December 31, 2019	December 31, 2020
Capital		
Common stock capital	3,611,338	3,611,338
Hybrid securities	997,544	1,895,366
Capital surplus		
Paid in capital in excess of par	608,348	608,348
Equity method	1,153	_
Others	16,794	17,763
Sub-total	626,295	626,111
Capital adjustments		
Treasury stocks	_	_
Other adjustments ^(*1)	(1,748,667)	(1,775,312)
Sub-total	(1,748,667)	(1,775,312)
Accumulated other comprehensive income		
Financial assets at FVTOCI	(71,914)	(9,833)
Changes in capital due to equity method	915	(2,609)
Loss from foreign business translation	(152,987)	(298,363)
Remeasurements of defined benefit plan	(270,977)	(261,195)
Loss on evaluation of cash flow hedge	(5,692)	(1,386)
Capital related to noncurrent assets held for sale		1,226
Sub-total	(500,655)	(572,160)
Retained earnings(*2)(*3)	18,524,515	19,268,265
Non-controlling interest(*4)	3,981,962	3,672,237
Total	25,492,332	26,725,845

^(*1) Included 178,060 million Won in capital transaction profit and loss recognized by Woori Bank and (formerly) Woori Financial Group in 2014 and 223,228 million Won due to the spin-off of Gyeongnam Bank and Gwangju Bank. During the previous term, the Group entered an agreement to acquire additional interest in the Woori Asset Trust Co., Ltd., and the capital adjustment reduced by 111,242 million Won.

^(*2) The regulatory reserve for credit loss in retained earnings amounted to 2,356,246 million Won and 2,547,547 million Won as of December 31, 2019 and 2020, respectively in accordance with the relevant article.

^(*3) The earned surplus reserve in retained earnings amounted to 62,830 million Won as of December 31, 2020 in accordance with the Article 53 of the Financial Holding Company Act.

^(*4) The hybrid securities issued by Woori Bank amounting to 3,660,814 million Won and 3,105,070 million Won as of December 31, 2019 and 2020, respectively, are recognized as non-controlling interests. 134,421 million Won and 162,362 million Won of dividends for the hybrid securities are allocated to net profit and loss of the non-controlling interests for the years ended December 31, 2019 and 2020, respectively.

(2) The number of authorized shares and others of the Group are as follows:

	December 31, 2019	December 31, 2020
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	722,267,683 Shares	722,267,683 Shares
Capital stock	3,611,338 million Won	3,611,338 million Won

(3) The Group issued 42,103,377 new shares in the stock exchange process with the shareholders of Woori Card for the period from January 11, 2019, to December 31, 2019, which changed the total number of issued shares from 680,164,306 as of the date of establishment to 722,267,683 as of December 31, 2020.

(4) Hybrid securities

The bond-type hybrid securities classified as owner's equity are as follows (Unit: Korean Won in millions):

	Issue date	Maturity	Interest rate (%)	December 31, 2019	December 31, 2020
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
Securities in local currency	2020-06-12	_	3.23	_	300,000
Securities in local currency	2020-10-23	_	3.00	_	200,000
Issuance cost				(2,456)	(4,634)
Total				997,544	1,895,366

The hybrid securities mentioned above do not have maturity date but are redeemable after 5 years from date of issuance.

(5) Accumulated other comprehensive income

Changes in the accumulated other comprehensive income are as follows (Unit: Korean Won in millions):

For the year ended December 31, 2018

		roi the year	chaca December	31, 2010	
	Beginning balance	Increase (decrease)(*1)(*2)	Reclassification adjustments	Income tax effect	Ending balance
Net gain (loss) on valuation of financial assets at FVTOCI	(88,906)	(8,677)	8,015	2,386	(87,182)
own credit risk	(96)	132	_	(36)	_
Changes in capital due to equity method	(2,656)	4,080		(1,122)	302
Gain (loss) on foreign currency translation of foreign operations	(242,806)	(2,661)	_	732	(244,735)
benefit plan	(152,358)	(111,401)	_	27,033	(236,726)
Gain (loss) on valuation of derivatives designated as cash flow hedges	777	30,655	(26,871)	(8,430)	(3,869)
sale	4,145	(4,145)	_	_	_
Total	<u>(481,900)</u>	(92,017)	(18,856)	20,563	(572,210)

^(*2) Gain (loss) on financial liabilities at fair value through profit or loss designated as upon initial recognition due to credit risk included the 4 million Won transferred to retained earnings due to redemption.

	For the year ended December 31, 2019					
	Beginning balance	Increase (decrease)(*)	Reclassification adjustments	Income tax effect	Ending balance	
Net gain (loss) on valuation of financial assets at						
FVTOCI	(87,182)	(24,180)	43,021	(3,573)	(71,914)	
Changes in capital due to equity method	302	(1,420)		2,033	915	
Gain (loss) on foreign currency translation of						
foreign operations	(244,735)	96,157	_	(4,409)	(152,987)	
Remeasurement gain (loss) related to defined						
benefit plan	(236,726)	(48,244)	_	13,993	(270,977)	
Gain (loss) on valuation of derivatives designated						
as cash flow hedges	(3,869)	(32,719)	31,756	(860)	(5,692)	
Total	<u>(572,210)</u>	(10,406)	74,777	7,184	(500,655)	

^(*) 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 29,368 million Won are due to disposal of equity securities during the period.

	For the year ended December 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)
Remeasurement gain (loss) related 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)

^(*) 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.

^(*1) Net gain (loss) on valuation of financial assets at FVTOCI included the 1,009 million Won transfer to retained earnings due to disposal of equity securities.

(6) Treasury stock

Details of treasury stocks are as follows (Unit: Shares, Korean Won in millions):

	December 3	31, 2019	December 31, 2020	
	Number of shares	Book value	Number of shares	Book value
Beginning balance	2,728,774	34,113	2	
Acquisition	57,721,387	799,886	_	_
Disposal	(60,450,159)	(833,999)		
Ending balance	2		2	

29. DIVIDENDS

The dividend and total dividend per share for the fiscal year ending December 31, 2019 were 700 Won and 505,587 million Won, respectively, approved at the regular shareholders' meeting held on March 25, 2020 and paid in April 2020.

A dividend in respect of the year ended December 31, 2020, of 360 Won per share, amounting to a total dividend of 260,017 million Won, was approved by shareholders at the annual general meeting on March 26, 2021.

30. NET INTEREST INCOME

(1) Interest income recognized are as follows (Unit: Korean Won in millions):

	For the years ended December 31			
	2018	2019	2020	
Financial assets at FVTPL	54,243	50,619	48,612	
Financial assets at FVTOCI	280,371	474,751	437,527	
Financial assets at amortized cost				
Loans and other financial assets at amortized cost				
Interest on due from banks	112,581	141,330	53,586	
Interest on loans	8,832,485	9,443,740	8,570,173	
Interest of other receivables	28,031	29,990	30,967	
Sub-total	8,973,097	9,615,060	8,654,726	
Securities at amortized cost	376,788	436,340	382,988	
Sub-total	9,349,885	10,051,400	9,037,714	
Total	9,684,499	10,576,770	9,523,853	

(2) Details of interest expense recognized are as follows (Unit: Korean Won in millions):

	For the years ended December 31			
	2018	2019	2020	
Interest on deposits due to customers	2,917,165	3,424,441	2,486,523	
Interest on borrowings	306,739	383,213	269,985	
Interest on debentures		777,322	722,551	
Other interest expense	89,250	89,002	36,964	
Interest on lease liabilities		9,086	9,318	
Total	4,033,548	4,683,064	3,525,341	

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		
	2018	2019	2020
Fees and commission received for brokerage	162,344	156,578	162,653
Fees and commission received related to credit	173,233	189,597	195,391
Fees and commission received for electronic finance	121,250	137,289	125,107
Fees and commission received on foreign exchange handling	60,433	61,756	55,984
Fees and commission received on foreign exchange	66,036	92,408	69,017
Fees and commission received for guarantee	65,254	71,106	74,647
Fees and commission received on credit card	598,705	548,580	507,852
Fees and commission received on securities business	96,379	113,346	79,606
Fees and commission from trust management	177,456	180,290	160,564
Fees and commission received on credit information	12,985	12,626	13,254
Fees and commission received related to lease	_	4,753	84,164
Other fees	146,689	140,997	165,777
Total	1,680,764	1,709,326	1,694,016

(2) Details of fees and commissions expense incurred are as follows (Unit: Korean Won in millions):

	For the years ended December 31		
	2018	2019	2020
Fees and commissions paid	174,669	189,789	246,824
Credit card commission	428,613	407,689	424,316
Brokerage commission	1,833	775	551
Others	5,675	8,445	8,286
Total	610,790	606,698	679,977

32. DIVIDEND INCOME

(1) Details of dividend income recognized are as follows (Unit: Korean Won in millions):

	For the years ended December 31		
	2018	2019	2020
Dividend income related to financial assets at FVTPL	67,892	86,979	120,158
Dividend income related to financial assets at FVTOCI	22,660	20,980	18,385
Total	90,552	107,959	138,543

(2) Details of dividends related to financial assets at FVTOCI are as follows (Unit: Korean Won in millions):

	For the years ended December 31			
	2018	2019	2020	
Dividend income recognized from assets held				
Equity securities	22,386	20,980	18,385	
Dividend income recognized in assets derecognized	274			
Total	22,660	20,980	18,385	

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		
	2018	2019	2020
Gain on financial instruments at fair value through profit or loss measured at fair			
value	196,959	58,692	422,374
Gain (loss) on financial instruments at fair value through profit or loss designated			
as upon initial recognition	17,484	(33,237)	(665)
Total	214,443	25,455	421,709

(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		
			2018	2019	2020
Financial assets at FVTPL	Securities	Gain on transactions and valuation	182,342	186,394	142,551
		valuation	(52,227)	(80,306)	(122,506)
		Sub-total	130,115	106,088	20,045
	Loans	Gain on transactions and valuation	5,742	1,556	15,299
		valuation	(4,922)	(21)	(8,087)
		Sub-total	820	1,535	7,212
	Other financial assets	Gain on transactions and valuation Loss on transactions and	2,580	3,963	10,902
		valuation	(2,366)	(3,570)	(10,257)
		Sub-total	214	393	645
	Sub-total		131,149	108,016	27,902
Derivatives (Held for trading)	Interest rate derivatives	Gain on transactions and valuation	1,255,581	1,507,254	1,727,585
		valuation	(1,303,244)	(1,615,833)	(1,998,824)
		Sub-total	(47,663)	(108,579)	(271,239)
	Currency derivatives	Gain on transactions and valuation Loss on transactions and	4,935,922	6,872,513	12,562,354
		valuation	(4,822,915)	(6,855,447)	(11,906,353)
		Sub-total	113,007	17,066	656,001
	Equity derivatives	Gain on transactions and valuation	486,560	839,196	1,835,497
		valuation	(484,986)	(796,336)	(1,825,372)
		Sub-total	1,574	42,860	10,125
	Other derivatives	Gain on transactions and valuation	4,138	695	_
		valuation	(5,246)	(1,366)	(415)
		Sub-total	(1,108)	(671)	(415)
	Sub-total		65,810	(49,324)	394,472
	Total		196,959	58,692	422,374

(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		
	2018	2019	2020
Gain (loss) on equity-linked securities	15,887	(33,237)	(665)
Gain on other financial instruments	1,597		
Total	17,484	(33,237)	(665)

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		
	2018	2019	2020
Gain on redemption of securities	53	15	(57)
Gain on transaction of securities	1,994	11,000	24,195
Total	2,047	11,015	24,138

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		
	2018	2019	2020
Impairment loss due to credit loss on financial assets measured at FVTOCI \ldots	(2,027)	(3,297)	(1,529)
Reversal of (provision for) impairment loss due to credit loss on securities at			
amortized cost	(1,922)	1,415	934
Provision for impairment loss due to credit loss on loan and other financial			
assets at amortized cost	(415,084)	(385,758)	(792,250)
Reversal of provision on guarantee	105,985	4,352	18,348
Reversal of (provision for) unused loan commitment	(16,526)	9,044	(9,874)
Total	(329,574)	(374,244)	<u>(784,371)</u>

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
			2018	2019	2020
Employee benefits	Short-term				
1 7	employee benefits	Salaries Employee fringe	1,484,236	1,584,791	1,638,341
		benefits	468,012	475,238	506,048
	Share based payments Retirement benefit		_	6,328	7,495
	service costs		145,149	168,423	178,455
	Termination		225,106	156,441	202,259
	Sub-total		2,322,503	2,391,221	2,532,598
Depreciation and amortization Other general and administrative			216,735	481,176	520,969
expenses	Rent Taxes and public		321,198	85,705	78,707
	dues		115,454	137,137	129,904
	Service charges		222,530	235,117	244,825
	Computer and IT rela	ited	88,689	93,573	108,810
	Telephone and comm	nunication	70,618	70,220	72,711
	Operating promotion		43,540	45,594	45,891
	Advertising		72,450	85,887	94,880
	Printing		8,601	7,845	6,954
	Traveling		12,757	13,255	7,263
	Supplies		7,071	7,736	12,127
	Insurance premium		8,355	9,668	10,805
	Reimbursement		23,474	23,577	16,500
	Maintenance		17,384	18,495	18,367
	Water, light and				
	heating		14,686	15,272	14,993
	Vehicle maintenance		10,264	10,564	10,225
	Others		47,724	34,035	29,652
	Sub-total		1,084,795	893,680	902,614
	Total		3,624,033	3,766,077	3,956,181

(2) Details of other operating income recognized are as follows (Unit: Korean Won in millions):

	For the years ended December 31		
	2018	2019	2020
Gain on transactions of foreign exchange	1,227,561	602,115	758,347
Gain related to derivatives (Designated for hedging)	35,810	126,651	67,395
Gain on fair value hedged items	42,797	231	9,646
Others ^(*)	82,417	45,706	63,702
Total	1,388,585	774,703	899,090

^(*) Other income includes income amounting to 29,316 million Won for the years ended December 31, 2018, that the Group recognized for it is to receive from other creditor financial institutions in accordance with the creditor financial institutions committee agreement.

(3) Details of other operating expenses recognized are as follows (Unit: Korean Won in millions):

	For the years ended December 31		
	2018	2019	2020
Losses on transactions of foreign exchange	991,423	192,331	679,350
KDIC deposit insurance premium	315,315	333,600	371,054
Contribution to miscellaneous funds	298,416	317,667	327,911
Losses related to derivatives (Designated for hedging)	36,483	3,686	82,746
Losses on fair value hedged items	17,299	86,214	68,508
Others ^(*)	124,240	143,786	189,959
Total	1,783,176	1,077,284	1,719,528

^(*) Others include such expenses amounting to 1,594 million Won for the years ended December 31, 2018, that are related to the Group's expected payments to other creditor financial institutions in accordance with the creditor financial institutions committee agreement. In addition, they include such expenses amounting to 51,770 million Won, 22,317 million Won and 11,890 million Won, respectively, of intangible asset amortization expense for the years ended December 31, 2018, 2019 and 2020, respectively.

(4) Share-based payment

Details of performance condition share-based payment granted to executives as of December 31, 2019 and 2020 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)		9,162 Won
Valuation method		Black-Scholes Model
Expected dividend rate		4.13%
Expected maturity date		2 years
Number of shares remaining	As of December 31, 2019	602,474 shares
	As of December 31, 2020	602,474 shares
Number of shares granted(*2)	As of December 31, 2019	602,474 shares
	As of December 31, 2020	602,474 shares
Subject to		Shares granted for the year 2020
Subject to Type of payment		Shares granted for the year 2020 Cash-settled
•		· ·
Type of payment		Cash-settled
Type of payment Vesting period		Cash-settled January 1, 2020 ~ December 31, 2023
Type of payment Vesting period Date of payment		Cash-settled January 1, 2020 ~ December 31, 2023 2024-01-01
Type of payment Vesting period Date of payment Fair value(*1)		Cash-settled January 1, 2020 ~ December 31, 2023 2024-01-01 8,792 Won
Type of payment Vesting period Date of payment Fair value(*1) Valuation method		Cash-settled January 1, 2020 ~ December 31, 2023 2024-01-01 8,792 Won Black-Scholes Model
Type of payment Vesting period Date of payment Fair value(*1) Valuation method Expected dividend rate	As of December 31, 2019	Cash-settled January 1, 2020 ~ December 31, 2023 2024-01-01 8,792 Won Black-Scholes Model 4.13%
Type of payment Vesting period Date of payment Fair value(*1) Valuation method Expected dividend rate Expected maturity date	As of December 31, 2019 As of December 31, 2020	Cash-settled January 1, 2020 ~ December 31, 2023 2024-01-01 8,792 Won Black-Scholes Model 4.13%
Type of payment Vesting period Date of payment Fair value(*1) Valuation method Expected dividend rate Expected maturity date		Cash-settled January 1, 2020 ~ December 31, 2023 2024-01-01 8,792 Won Black-Scholes Model 4.13% 3 years —

- (*1) 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.
- (*2) 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.
- 2) 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, 2019 and 2020, the book value of the liabilities related to the performance condition share-based payments recognized by the Group amounts to 6,328 million Won and 13,823 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		
2018	2019	2020
25,791	103,775	125,602
(22,595)	(16,144)	(23,283)
(177)	(3,634)	(1,242)
3,019	83,997	101,077
	2018 25,791 (22,595) (177)	2018 2019 25,791 103,775 (22,595) (16,144) (177) (3,634)

(2) Details of other non-operating income and expenses recognized are as follows (Unit: Korean Won in millions):

	For the years ended December 31		
	2018	2019	2020
Other non-operating income	129,709	68,459	133,195
Other non-operating expenses	(87,157)	(229,383)	(313,415)
Total	42,552	(160,924)	(180,220)

(3) Details of other non-operating income recognized are as follows (Unit: Korean Won in millions):

	For the years ended December 3		
	2018	2019	2020
Rental fee income	6,835	10,106	15,190
Gains on disposal of investments in joint ventures and associates	50,511	_	3,470
Gains on disposal of premises and equipment, intangible assets and other assets	30,278	1,632	9,715
Reversal of impairment loss of premises and equipment, intangible assets and			
other assets	761	103	172
Others ^(*)	41,324	56,618	104,648
Total	129,709	<u>68,459</u>	133,195

^(*) Included 67,427 million Won of profit from bargain purchase for the year ended December 31, 2020.

(4) Details of other non-operating expenses recognized are as follows (Unit: Korean Won in millions):

	For the years ended December 3		
	2018	2019	2020
Depreciation on investment properties	4,045	2,225	2,689
Interest expenses of refundable deposits	620	834	762
Losses on disposal of investment in joint ventures and associates	2,931	_	_
Losses on disposal of premises and equipment, intangible assets and other			
assets	1,160	3,433	2,717
Impairment losses of premises and equipment, intangible assets and other			
assets	87	28,295	8,763
Donation	51,983	62,545	44,504
Others ^(*)	26,331	132,051	253,980
Total	87,157	229,383	313,415

^(*) Included 224,427 million Won of other extraordinary losses related to other provisions for the year ended December 31, 2020.

38. INCOME TAX EXPENSE

(1) Details of income tax expenses are as follows (Unit: Korean Won in millions):

	For the years ended December		
	2018	2019	2020
Current tax expense			
Current tax expense with respect to the current period	432,645	612,680	501,223
Adjustments recognized in the current period in relation to the tax expense			
of prior periods	5,923	(65,227)	4,914
Sub-total	438,568	547,453	506,137
Deferred tax expense (income)			
Change in deferred tax assets (liabilities) due to temporary differences	314,655	130,816	(1,702)
Income tax expense directly attributable to equity and others		7,184	(18,433)
Sub-total	314,655	138,000	(20,135)
Income tax expense	753,223	685,453	486,002

(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		
	2018	2019	2020
Net income before income tax expense	2,804,872	2,723,049	2,001,251
Tax calculated at statutory tax rate ^(*)	760,978	738,476	514,456
Adjustments:			
Effect of income that is exempt from taxation	(49,418)	(61,730)	(42,440)
Effect of expenses that are not deductible in determining taxable			
income	18,639	31,549	19,451
Adjustments recognized in the current period in relation to the			
current tax of prior periods	5,923	(65,227)	4,914
Others	17,101	42,385	(10,379)
Sub-total	(7,755)	(53,023)	(28,454)
Income tax expense	753,223	685,453	486,002
Effective tax rate	26.9%	25.2%	24.3%

^(*) The applicable income tax rate: 1) 11% for taxable income below 200 million Won, 2) 22% for above 200 million Won and below 20 billion Won, 3) 24.2% for above 20 billion Won and below 300 billion Won, 4) 27.5% for above 300 billion Won.

(3) Changes in cumulative temporary differences for the years ended Deferred 31, 2018, 2019 and 2020, are as follows (Unit: Korean Won in millions):

For the year ended December 31, 2018 IFRS 9 adoption effect **Beginning** Recognized as Recognized as balance other Recognized Recognized other after comprehensive Beginning as retained comprehensive IFRS 9 **Business** as income income Ending (expense)(*2) balance income (loss) adoption combination Balance earnings (expense) Gain (loss) on financial 149,796 (4,205)479,065 (150,140) 478,721 (102,170)372,346 assets Gain on valuation using the equity method of accounting 24,482 24,482 3,203 669 28,354 Gain (loss) on valuation of derivatives (3,990)(10,260)(14,250)(13,617)360 (27,507)Accrued income (60,987)(60,987)4,520 (55,846)621 Allowance for credit (47,697)47,446 (251)399 (52,493)(52,345)Loan and receivables written off 9,777 9,777 (3,105)6,672 Loan origination costs and fees (137,320) 36 (137,284)(17,147)(154,431)Defined benefit liability ... 284,234 284,234 317 43,821 31,715 360,087 Deposits with employee retirement insurance 95 trust (287,333) (287,333)(31,092)(318, 330)30,602 1,370 31,972 (20,598)11,374 Provision for guarantee . . . Other provision 25,879 45,153 71,032 4,162 75,194 (6,642)Others^(*1) (72,265) 4,917 44 (130, 137)(204,083)(67,348)(74,482)149,796 332,765 1,381 (314,653)21,992 41,485 Net deferred tax assets ... 257,451

^(*2) Includes 1,429 million Won presented on non-controlling interests.

	For the year ended December 31, 2019				
	Beginning balance	Business combination	Recognized as income (expense)	Recognized as other comprehensive income (expense)(*2)	Ending Balance
Gain (loss) on financial assets	372,346	1,360	(91,781)	(3,573)	278,352
Gain (loss) on valuation using the equity method					
of accounting	28,354	90	(17,648)	(83)	10,713
Gain (loss) on valuation of derivatives	(27,507)	6	(48,217)	306	(75,412)
Accrued income	(55,846)	(52)	(10,486)	_	(66,384)
Allowance for credit losses	(52,345)	_	(366)	_	(52,711)
Loan and receivables written off	6,672	_	221	_	6,893
Loan origination costs and fees	(154,431)	_	(8,011)	_	(162,442)
Defined benefit liability	360,087	1,131	21,234	13,850	396,302
Deposits with employee retirement insurance					
trust	(318,330)	(1,131)	(62,458)	143	(381,776)
Provision for guarantee	11,374	_	(3,459)	_	7,915
Other provision	75,194	76	10,958	2,228	88,456
Others ^(*1)	(204,083)	(6,927)	72,013	(5,687)	(144,684)
Net deferred tax assets	41,485	(5,447)	(138,000)	7,184	(94,778)

^(*1) Among the deferred tax assets and liabilities classified as 'Others,' the deferred tax asset arising from unused tax losses amounts to 21,656 million Won.

^(*2) Includes 2,737 million Won presented on non-controlling interests.

	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)	
Allowance for credit 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 ^(*1)	(144,684)	(12,678)	31,494	6,904	(118,964)	
Net deferred tax assets	(94,778)	(21,087)	20,133	(18,431)	(114,163)	

^(*1) Among the deferred tax assets and liabilities classified as 'others,' the deferred tax asset arising from unused tax losses amounts to 18,154 million Won.

- (*1) 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.
- (4) Unrealizable temporary differences are as follows (Unit: Korean Won in millions):

	December 31, 2019	December 31, 2020
Deductible temporary differences	171,714	327,139
Tax loss carry forward	41,546	97,898
Taxable temporary differences	(8,024,406)	(10,409,344)
Total	(7,811,146)	(9,984,307)

No deferred income tax asset has been recognized for the deductible temporary difference of 322,083 million Won associated with investments in subsidiaries and associates as of December 31, 2020, because it is not probable that the temporary differences will be reversed in the foreseeable future. Also, no deferred income tax has been recognized for 5,056 million Won associated with others, as of December 31, 2020, 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 10,409,344 million Won associated with investment in subsidiaries and associates as of December 31, 2020, 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, 2020, 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	1-2 years	2-3 years	More than 3 years
Tax loss carry forward	29,979	14,341	34,470	19,108

(5) Details of accumulated deferred tax charged directly to other equity are as follows (Unit: Korean Won in millions):

	December 31, 2019	December 31, 2020
Gain on valuation of financial assets at FVTOCI	27,849	4,628
Gain on valuation of equity method investments	1,748	3,133
Gain on foreign currency translation of foreign operations	3,774	10,883
Remeasurements of the net defined benefit liability	102,120	101,128
Gain on derivatives designated as cash flow hedge	280	556
Total	135,771	120,328

(6) Current tax assets and liabilities are as follows (Unit: Korean Won in millions):

	December 31, 2019	December 31, 2020
Current tax assets	47,367	75,655
Current tax liabilities	182,690	370,718

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		
	2018	2019	2020
Net income attributable to common shareholders	2,033,182	1,872,207	1,307,266
Dividends to hybrid securities	(151,194)	(4,362)	(48,915)
Net income attributable to common shareholders	1,881,988	1,867,845	1,258,351
Weighted average number of common shares outstanding (Unit: million			
shares)	673	685	722
Basic EPS (Unit: Korean Won)	2,796	2,727	1,742

(2) The weighted average number of common shares outstanding is as follows (Unit: number of shares, days):

	For the year ended December 31, 2019				
	Period	Number of shares	Dates (Unit: Day)	Accumulated number of shares outstanding during period	
Common shares issued at the					
beginning of the period	2019-01-01 ~ 2019-12-31	673,271,226	365	245,743,997,490	
Purchase of treasury stock	2019-01-08 ~ 2019-12-31	(11,453,702)	358	(4,100,425,316)	
Disposal of treasury stock	2019-03-22 ~ 2019-12-31	18,346,782	285	5,228,832,870	
Purchase of treasury stock	2019-08-26 ~ 2019-12-31	(1)	128	(128)	
Disposal of treasury stock(*)	2019-09-26 ~ 2019-12-31	28,890,707	97	2,802,398,579	
Disposal of treasury stock(*)	2019-11-22 ~ 2019-12-31	13,212,670	40	528,506,800	
Purchase of treasury stock	2019-12-13 ~ 2019-12-31	(1)	19	(19)	
	Sub-total (①)			250,203,310,276	
Weighted average number of common	shares outstanding (@=(①/365)			685,488,521	

^(*) In September 2019, Woori Bank disposed of 42,103,377 shares acquired through comprehensive exchange of shares in Woori Card Co., Ltd. and its parent company Woori Financial Group Inc.

	For the year ended December 31, 2020				
	Period	Number of shares	Dates (Unit: Day)	Accumulated number of shares outstanding during period	
Common shares issued at the					
beginning of the period	2020-01-01 ~ 2020-12-31	722,267,683	366	264,349,971,978	
Treasury stock	$2020-01-01 \sim 2020-12-31$	(2)	366	(732)	
	Sub-total (1)			264,349,971,246	
Weighted average number of common	722,267,681				

Diluted EPS is equal to basic EPS because there is no dilution effect for the years ended December 31, 2019 and 2020.

40. CONTINGENT LIABILITIES AND COMMITMENTS

(1) Details of guarantees are as follows (Unit: Korean Won in millions):

	December 31, 2019	December 31, 2020
Confirmed guarantees		
Guarantee for loans	89,699	103,229
Acceptances	391,688	602,014
Guarantees in acceptances of imported goods	224,746	78,395
Other confirmed guarantees	6,982,889	6,491,608
Sub-total	7,689,022	7,275,246
Unconfirmed guarantees		
Local letters of credit	193,096	187,146
Letters of credit	3,081,390	3,025,923
Other unconfirmed guarantees	771,378	403,652
Sub-total	4,045,864	3,616,721
Commercial paper purchase commitments and others	884,031	917,489
Total	12,618,917	11,809,456

(2) Details of unused loan commitments and others are as follows (Unit: Korean Won in millions):

		December 31, 2020
Loan commitments	103,651,674	112,088,680
Other commitments ^(*)	5,993,608	7,827,774

^(*) As of December 31, 2019 and 2020, the amount of unsecured bills (purchase note sales) and discounts on electronic short-term bond sales (purchase) are 2,582,274 million Won and 2,894,688million Won, respectively.

(3) Litigation case

Legal cases where the Group is involved are as follows (Unit: Korean Won in millions):

	December 31, 2019		December 31, 202	
	As plaintiff	As defendant	As plaintiff	As defendant
Number of cases ^(*)	119 cases	415 cases	138 cases	460 cases
Amount of litigation	291,880	391,362	413,852	413,744
Provisions for litigations		27,029		24,336

^(*) The number of lawsuits as of December 31, 2019 and 2020 do not include fraud lawsuits, etc. and those lawsuits that are filed only to extend the statute of limitation.

(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 is planning to acquire the interest of the second sales agreement after a certain period. In regard to this acquisition, the Group recognized 127,335 million Won as other financial liabilities for the second sales agreement.

- 2) Lime Asset Management Co., Ltd. announced the suspension of redemption of many funds in operation in October 2019. The Group's total amount of sales of fund under management of Lime Asset Management Co., Ltd.'s subject to redemption suspension is 1,348 accounts and 270.3 billion Won at the end of December 2020. In December 2020, Lime Asset Management Co., Ltd.'s business registration was revoked, and funds subject to redemption suspension were transferred to Wellbridge Asset Management Co., Ltd., which was jointly established by distributors. The Financial Supervisory Dispute Meditation Committee was held on February 23, 2021 for incomplete sales of vendors, and the obligation to compensate investors for some of the losses may be changed by the Dispute Mediation Committee's decision and the Board's approval.
- 3) As of December 31, 2020, Woori Asset Trust Co., Ltd., a subsidiary, has agreed to carry out construction completion obligations for 44 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 company fails to fulfill the construction completion obligation. As of December 31, 2020, the total PF loan amount of PF loan institutions invested in the project of the Land Trust responsible for Construction and Management is 1,389,356 million Won. Although additional losses may occur in relation to the construction completion obligations, the financial statements at December 31, 2020 does not reflect these effects since losses are unlikely and the amount could not be estimated reliably.

41. RELATED PARTY TRANSACTIONS

Related parties of the Group as of December 31, 2019 and 2020, and assets and liabilities recognized, guarantees and commitments, major transactions with related parties and compensation to key management for the years ended December 31, 2018, 2019 and 2020 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, 2019	, December 31, 2020	
Associates	W Service Networks Co., Ltd.	Allowance for credit		21	
		losses	(1)	_	
		Deposits due to customers	1,881	2,183	
		Accrued expenses	6	6	
		Other liabilities	429	459	
	Korea Credit Bureau Co., Ltd.	Loans	3	1	
		Deposits due to customers	26	2,311	
		Other liabilities	_	5	
	Korea Finance Security Co., Ltd.	Loans	1,860	3,440	
		losses	(3)	(6)	
		Deposits due to customers	1,371	1,927	
		Other liabilities	_	1	
	Chin Hung International Inc.	Loans	244	257	
		losses	(2)	(3)	
		Deposits due to customers	5,381	8,715	
		Other liabilities	321	171	
	LOTTE CARD Co. Ltd.	Loans	7,500	7,500	
		losses	(30)	(77)	
		Other assets	_	12	
		Deposits due to customers	2,726	2,697	
		Other liabilities	_	113	
	K BANK Co., Ltd.	Loans	141	104	
		Account receivables	24	26	
		Other assets	4	2	
	Well to Sea No.3 Private Equity Fund	Loans	4,490	_	
		losses	(8)	_	
		Deposits due to customers	714	4,997	
		Other liabilities	47	_	
	Others(*1)(*2)	Loans	84	_	
		losses	(84)	_	
		Other assets	338	651	
		Deposits due to customers	5,577	5,831	
		Other liabilities	172	5	

^(*1) Others include Smart Private Equity Fund No.2, IBK KIP Seongjang Dideemdol 1st Private Investment Limited Partnership, Woori G IPO10 [FI_Bal][F]C(F), Woori G Senior Loan No.1, Woori G Egis Bond[FI][F](C(F)), Woori G Clean Energy No.1, Woori Star50 Master Fund ClassC-F, Dongwoo C & C Co., Ltd., Woori Growth Partnerships New Technology Private Equity Fund, Woori-Shinyoung Growth-Cap Private Equity Fund, Woori-Q Corporate Restructuring Private Equity Fund, Woori High plus G.B.

- Securities Feeder Fund1(G.B.), Uri Hanhwa Eureka Private Equity Fund, Japanese Hotel Real Estate Private Equity Fund 2, Partner One Value Up I Private Equity Fund and etc., as of December 31, 2020.
- (*2) Others include Saman Corporation, Woori-Shinyoung Growth-Cap Private Equity Fund, Uri Hanhwa Eureka Private Equity Fund, Kyesan Engineering Co., Ltd. and DAEA SNC Co., Ltd. and etc., as of December 31, 2019.
- (2) Gain or loss from transactions with related parties are as follows (Unit: Korean Won in millions):

			For the Dece	years e mber 3	
	Related party	A title of account	2018	2019	2020
Associates	Kumho Tire Co., Inc.(*1)	Interest income	1,098	_	_
		Reversal of allowance for credit loss	(156,712)		_
	W Service Network Co., Ltd.	Other income	30	32	32
		Interest expenses	14	20	13
		Fees expenses	561	448	525
		Reversal of allowance for credit loss	_	(3)	
		Other expenses		,	2,174
	Korea Credit Bureau Co., Ltd.	Interest expenses	62	29	5
		Fees expenses	2,310	2,608	3,155
	Korea Finance Security Co., Ltd.	Interest income	_		70
		Interest expenses	12	9	3
		Provisions for allowance for credit			
		loss	4	8	3
		Other expenses	146	112	100
	Chin Hung International Inc.	Interest expenses	43	35	19
		Provision for (reversal of) allowance for			
		credit loss	182	44	(145)
	STX Engine Co., Ltd.(*2)	Interest income	333		_
		Interest expenses	86	_	_
		Reversal of allowance for credit			
		losses	(88,734)		_
	STX Corporation ^(*2)	Interest expenses	2	_	_
		Reversal of allowance for credit			
		losses	(31,210)		_
	LOTTE CARD Co., Ltd.	Interest income	_	213	311
		Fees income	_		2,748
		Interest expenses	_	53	68
		Provisions for allowance for credit			
		loss	_	30	171
	K BANK Co., Ltd.	Fees income	1,134	1,468	1,763
		Other income	19		_
	Well to Sea No.3 Private Equity Fund	Interest income	2,179	1,774	1,883
		Interest expenses	9	11	5
		Reversal of allowance for credit loss	(30)	(18)	(55)
	Others(*3)(*4)(*5)	Interest income	233	_	_
		Fees income	23	1,281	2,677
		Dividends income	_	_	52
		Other income	14	17	16
		Interest expenses	40	55	28
		Reversal of allowance for credit loss	(147)	(5)) —

^(*1) The Group lost significant influence over the entity due to the termination of the joint management procedures of the creditors' financial institution during the year ended December 31, 2018, and thus the entity was excluded from the list of associates.

^(*2) The shares of the entity were sold after it was transferred to assets held for distribution (sale) during the year ended December 31, 2018 and thus was excluded from the list of associates.

- (*3) Others as of December 31, 2018 include Saman Corporation, Uri Hanhwa Eureka Private Equity Fund, Kyesan Engineering Co., Ltd, DAEA SNC Co., Ltd. etc.
- (*4) Others include Saman Corporation, Woori-Shinyoung Growth-Cap Private Equity Fund, Uri Hanhwa Eureka Private Equity Fund, Kyesan Engineering Co., Ltd., DAEA SNC Co., Ltd. and etc, as of December 31, 2019.
- (*5) Others include Smart Private Equity Fund No.2, IBK KIP Seongjang Dideemdol 1st Private Investment Limited Partnership, AJU TAERIM 1st Fund, Woori G IPO10 [FI_Bal][F]C(F), Woori G Senior Loan No.1, Woori G Egis Bond[FI][F](C(F)), Woori G Clean Energy No.1, Woori Star50 Master Fund ClassC-F, Saman Corporation, Woori Growth Partnerships New Technology Private Equity Fund, Woori-Shinyoung Growth-Cap Private Equity Fund, Woori-Q Corporate Restructuring Private Equity Fund, Woori High plus G.B. Securities Feeder Fund1(G.B.), Uri Hanhwa Eureka Private Equity Fund, Japanese Hotel Real Estate Private Equity Fund 2, Partner One Value Up I Private Equity Fund, PCC-Woori LP Secondary Fund and etc., as of December 31, 2020.
- (3) Major loan transactions with related parties for the years ended December 31, 2018, 2019 and 2020 are as follows (Unit: Korean Won in millions):

		For the year ended December 31, 2018			18	
	Related parties	Beginning balance	Loan	Collection	Others	Ending balance(*1)
Associates	Kumho Tire Co., Inc. (*2)	57,470		7,057	(50,413)	
	Well to Sea No. 3 Private Equity Fund	73,810	16,857	88,810	_	1,857
	STX Engine Co., Ltd.(*3)	39,886	_	2,177	(37,709)	_

^(*1) Payments that occurred for business reasons among related parties are excluded and net increase or decrease was used for limited credit loan.

(*3) The shares of the entity were sold after it was transferred to assets held for distribution (sale) during the year ended December 31, 2018 and thus was excluded from the list of associates.

		For th	ie year ended	d December 31,	2019
	Related parties	Beginning balance	Loan	Collection	Ending balance(*)
Associates	W Service Network Co., Ltd	69	315	361	23
	Korea Credit Bureau Co., Ltd	7	26	30	3
	Korea Finance Security Co., Ltd	57	2,426	623	1,860
	Chin Hung International Inc	241	2,338	2,335	244
	LOTTE CARD Co., Ltd	_	7,500	_	7,500
	K BANK Co., Ltd	185	2,249	2,293	141
	Well to Sea No. 3 Private Equity Fund	1,857	2,633	_	4,490

^(*) Payments that occurred for business reasons among related parties are excluded and net increase or decrease was used for limited credit loan.

^(*2) The Group lost significant influence over the entity due to the termination of the joint management procedures of the creditors' financial institution during the year ended December 31, 2018, and thus the entity was excluded from the list of associates.

			ie year ende	d December 31	, 2020
	Related parties	Beginning balance	Loan	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
	Chin Hung International Inc	244	2,575	2,562	257
	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.

(4) Details of changes in major deposits due to customers with related parties for the years December 31, 2018, 2019 and 2020 are as follows (Unit: Korean Won in millions):

		For th	ne year ended	d December 31, 2018			
	Related parties	Beginning balance	Increase	Decrease	Ending balance(*1)		
Associates	Saman Corporation	2,334	102	_	2,436		
	W Service Networks Co., Ltd	1,135	1,025	980	1,180		
	Chin Hung International Inc	765	765	765	765		
	Korea Credit Bureau Co., Ltd	4,000	12,000	10,000	6,000		
	Partner One Value Up I Private Equity						
	Fund	_	1,803	400	1,403		
	Korea Finance Security Co., Ltd	635	560	660	535		
	STX Corporation(*2)	330	_	330			
	STX Engine Co., Ltd.(*2)	10,256	_	10,256			
	Kumho Tire Co., Inc. (*2)	37	_	37	_		
	Hyunwoo International Co., Ltd.(*2)	41	_	41	_		

^(*1) Details of payment between related parties and demand deposit due to customers etc. are excluded.

^(*2) Excluded from associates due to disposal for the year ended December 31, 2018.

		For tl	the year ended December 31, 2019			
	Related parties	Beginning balance	Increase	Decrease	Ending balance(*1)	
Associates	Saman Corporation ^(*2)	2,436	86	_	2,522	
	W Service Networks Co., Ltd	1,180	1,460	1,460	1,180	
	Chin Hung International Inc	765	400	765	400	
	Partner One Value Up I Private Equity					
	Fund	1,403	1,617	1,870	1,150	
	Korea Credit Bureau Co., Ltd	6,000	_	6,000	_	
	Korea Finance Security Co., Ltd	535	25	560	_	

^(*1) Details of payment between related parties, demand deposit due to customers and etc. are excluded.

^(*2) Excluded from the related parties due to the loss of significant influence for the year ended December 31, 2019.

			ne year ended	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 Partner One Value Up I Private Equity	400	_	400	_
	Fund	1,150	1,737 1,000	2,024	863 1,000

^(*) 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, 2019 and 2020.

(6) Guarantees provided to the related parties are as follows (Unit: Korean Won in millions):

Warrantee	December 31, 2019	December 31, 2020	Warranty
Korea Finance Security Co., Ltd	400	820	Unused loan commitment
Korea Credit Bureau Co., Ltd	32	34	Unused loan commitment
W Service Network Co., Ltd	177	179	Unused loan commitment
Chin Hung International Inc	32,055	16,167	Unused loan commitment
K BANK Co., Ltd	159	196	Unused loan commitment
Well to Sea No.3 Private Equity Fund	210,510	_	Unused loan commitment
LOTTE CARD Co. Ltd	150,000	500,000	Unused loan commitment

As of December 31, 2019 and 2020, the recognized payment guarantee provisions are 384 million Won and 284 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, 2019	December 31, 2020	Warranty
Well to Sea No.3 Private Equity Fund	584,377	_	Open interest
Together-Korea Government Private Pool Private			1
Securities Investment Trust No.3	_	990,000	Open interest
Woori-Q Corporate Restructuring Private Equity			
Fund	53,372	36,355	Open interest
PCC-Woori LP Secondary Fund	7,575	2,525	Open interest
Union Technology Finance Investment			
Association	_	10,500	Open interest
IBK KIP Seongjang Dideemdol 1st Private			
Investment Limited Partnership	15,424	9,704	Open interest
Genesis Environmental Energy Company 1st			
Private Equity Fund	_	916	Open interest
Crevisse Raim Impact 1st Startup Venture			
Specialist Private Equity Fund	625	550	Open interest
Woori-Shinyoung Growth-Cap Private Equity			
Fund I	39,335	12,799	Open interest
Woori G Senior Loan No.1	_	53,041	Open interest
JC Assurance No.2 Private Equity Fund	_	1,650	Open interest
Woori Seoul Beltway Private Special Asset			
Fund	43,402	41,393	Open interest
Woori G Clean Energy No.1	_	7,485	Open interest

(8) Compensation for key management is as follows (Unit: Korean Won in millions):

	For the years ended December 31		
	2018	2019	2020
Short-term employee salaries	12,326	13,427	22,778
Retirement benefit service costs	489	783	910
Share-based compensation		2,494	3,519
Total	12,815	16,704	27,207

Major management shall be executives and outside directors of Woori Financial Group and major subsidiaries, and includes the CEO of other subsidiaries. Outstanding assets from transactions with key management amount to 2,414 million Won and 3,888 million Won, as of December 31, 2019 and 2020 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 6,543 million Won and 11,155 million Won, respectively, as of December 31, 2019 and 2020.

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, 2020		
	Total investment in lease	Net investment in lease	
Within one year	24,649	23,957	
After one year but within two years	48,781	45,575	
After two years but within three years	132,894	120,414	
After three years but within four years	171,137	151,756	
After four years but within five years	277,282	244,481	
After five years	16	12	
Total	654,759	586,195	

The unrealized interest income of the finance lease as of December 31, 2020 is as follows. (Unit: Korean Won in millions):

Unearned interest income
654,759
586,195
586,133
62
68,564

2) Operating lease

① The details of operating lease assets as of December 31, 2020 are as follows (Unit: Korean Won in millions):

	Vehicles
Acquisition cost	1,507,156
Accumulated depreciation	(390,981)
Net carrying value	1,116,175

② The details of changes in operating lease assets as of December 31, 2020 are as follows (Unit: Korean Won in millions):

	Amount
Beginning balance	_
Acquisition	118,256
Disposal	(21,963)
Depreciation	(52,504)
Business combination	1,071,111
Others	1,275
Ending balance	1,116,175

The future lease payments to be received under the lease contracts are as follows (Unit: Korean Won in millions):

	Amount
Within one year	240,005
After one year but within two years	223,074
After two years but within three years	156,859
After three years but within four years	80,174
After four years but within five years	24,992
Total	725,104

There is no adjusted lease payments recognized as profit or loss for the year ended December 31, 2020.

(2) Lessee

1) The future lease payments under the lease contracts are as follows (Unit: Korean Won in millions):

	December 31, 2019	December 31, 2020
Lease payments		
Within one year	161,251	173,885
After one year but within five years	232,985	200,844
After five years	40,698	34,787
Total	434,934	409,516

2) Total cash outflows from lease are as follows (Unit: Korean Won in millions):

	December 31	
	2019	2020
Total cash outflows from lease	220,163	207,305

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 of low value are as follows (Unit: Korean Won in millions):

	For the years ended December 31	
	2019	2020
Lease payments for short-term leases	1,964	1,760
Lease payments for which the underlying asset is of low value	332	751
Total	2,296	2,511

(3) As mentioned in Note 2, the Group uses a practical expedient for rent concession as a direct consequence of COVID-19. Accordingly, the amount recognized in profit or loss during the reporting period is 20,602 million Won, to reflect changes in lease payments arising from the rent concession.

43. BUSINESS COMBINATION

(1) General

The Group acquired substantial control over Aju Capital Co., Ltd. on October 20, 2020, and completed the acquisition of 76.8% (excluding treasury stocks, 74.0% interest including treasury stocks) stake in Woori Financial Capital Co., Ltd. (formerly Aju Capital Co., Ltd.) on December 10, 2020. The main reasons for the business combination are to maximize synergy between the consolidated subsidiaries and to strengthen the non-bank business portfolio.

The operating profit and net loss of Woori Financial Capital Co., Ltd., reflected in the consolidated statement of comprehensive income for the three months after the date of obtaining substantial control(October 20, 2020), are 21,163 million Won and 30,349 million Won, respectively. Had Woori Financial Capital Co., Ltd. been acquired from January 1, 2020, the consolidated statement of comprehensive income would have shown operating profit and net income of Woori Financial Capital Co., Ltd. for 138,116 and 58,980 million Won, respectively.

(2) Identifiable net assets

Identified assets and liabilities as of the acquisition date are as follows (Unit: Korean Won in millions):

		Amount
Assets	Cash and cash equivalents	259,275
	Financial assets at FVTPL	575,569
	Financial assets at amortized cost ^(*1)	6,489,669
	Investment properties	10,557
	Premises and equipment and right-of-use assets	7,367
	Intangible assets ^(*2)	8,681
	Deferred tax assets	6,676
	Other assets	1,103,542
	Sub-total	8,461,336
Liabilities	Financial liabilities	7,559,535
	Provisions	21,129
	Deferred tax liabilities	27,762
	Other liabilities	48,327
	Sub-total	7,656,753
Fair	value of net identifiable assets	804,583

- (*1) The acquired financial assets at amortized cost were estimated at fair value. The contractual total of the financial assets at amortized cost of Woori Financial Capital Co., Ltd. is 6,669,123 million Won (including 4,531 million Won in financial lease receivables), and the contractual cash flows that are not expected to be recovered as of the acquisition date are 179,454 million Won. (including 710 million Won in financial lease receivables)
- (*2) As 61,396 million Won of Woori Financial Capital Co., Ltd.'s goodwill recognized at the acquisition of Woori Savings Bank is not an identifiable asset, it has been fully deducted. As the core deposits of Woori Savings Bank are determined to be separately identifiable intangible assets, an additional 1,278 million Won was recognized, which was calculated by the fair value assessment through cost reduction method. The cost reduction method is to evaluate the reduced capital raising cost discounted as present value by comparing the cost of financing through deposits generated from stable customer relationships with the cost of financing through other sources.

If, within one year of the acquisition date, new information obtained about the facts and circumstances that existed at the acquisition date requires the adjustment of the amounts recognized at the acquisition date, or the recognition of additional provisions existing at the acquisition date, the accounting for the business combination will be adjusted.

(3) Profit from bargain purchase

Recognized profit from bargain purchase as a result of business combination are as follows (Unit: Korean Won in million):

	Amount
Transfer price	572,333
Fair value of net identifiable asset	804,583
Non-controlling interest(*1)	164,823
Profit from bargain purchase ^(*2)	67,427

^(*1) The Group measured the non-controlling interest in Woori Financial Capital acquired at fair value.

Gain from a bargain purchase was recognized as the identifiable net assets exceeded the consideration transferred plus the fair value of non-controlling interest.

The Group acquired core deposits held by Woori Financial Savings Bank as part of the acquisition of Woori Financial Capital Co., Ltd. It was recognized separately from goodwill because it met the separability criterion to meet the recognition requirements for intangible assets.

(4) Business combination cost

The Group incurred 1,071 million Won, including legal fees and due diligence fees, in relation to the business combination, and the amount was recognized as a fee expense in the consolidated statement of comprehensive income of the Group.

(5) Net cash outflow due to business combination

Details of net cash outflows due to business combination are as follows (Unit: Korean Won in million):

	Amount
Consideration paid in cash	572,333
Acquired cash and cash equivalents	259,275
Deduction in total	313,058

^(*2) Included in other non-operating income in the consolidated comprehensive income statement.

44. EVENTS AFTER THE REPORTING PERIOD

On March 5, 2021, the Group entered into a share purchase agreement to acquire 100% interests of Woori Savings Bank (common stock 12,160,398 shares) from one of the subsidiaries, Woori Financial Capital Co., Ltd. On March 12, 2021, acquisition was completed as the consideration was legally transferred to Woori Financial Capital Co., Ltd. In addition, on April 15, 2021, the Group acquired an additional 12.9% equity interest in Woori Financial Capital Co., Ltd. From Aju Corporation.

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. (Business Purpose)

The purposes of the Company are the acquisition and ownership of shares or interests in companies engaged in or closely related to the financial business, the control or administration and management of subsidiaries (as defined in the Financial Holding Company Act and includes subsidiaries, second-tier subsidiaries and companies controlled by second-tier subsidiaries; hereinafter the same shall apply) and any other business ancillary to such purposes:

- 1. Administration and management activities
 - A. to establish the business goals and approve business plans of subsidiaries
 - B. to evaluate the business performance of and determine compensation with respect to subsidiaries
 - C. to determine the corporate governance structure of subsidiaries
 - D. to inspect the affairs and financial status of subsidiaries
 - E. to perform internal control and risk management of subsidiaries
 - F. to perform activities ancillary to Items A through E
- 2. Business ancillary to the administration and management activities
 - A. to financially support subsidiaries (including the lending of assets of economic value such as money and securities, the guarantee of liabilities and other direct and indirect transactions that involve credit risk; the same shall apply in this Article)
 - B. to make capital investments in subsidiaries 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 by subsidiaries in order to support their business, including IT, legal and accounting
- 3. Any other business for which a license, permit or approval is not required by law
- 4. Other business permitted under laws and regulations
- 5. Business ancillary 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, Korea.
- (2) The Company may establish branches, agencies, business offices and local 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 (<u>www.woorifg.com</u>); 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, Korea.

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.

Article 8. (Classes of Shares)

- (1) Shares to be issued by the Company shall be common stock and class shares.
- (2) Class shares to be issued by the Company shall be class shares entitled to preferred dividends, class shares without voting rights, convertible shares, redeemable shares, and shares incorporating all or some of the foregoing features.
- (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 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) Type 1 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 shares of the Company.
- (2) At the time of issuance of the Class Shares, the Board of Directors shall determine the terms of the Class Shares, including the dividend rate (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. If Class Shares for which the preferred dividend rate may be adjusted are issued, the Board of Directors shall determine the additional terms of such Class Shares including that the preferred dividend rate is subject to change, reasons for the adjustment, the reference date for adjustment and the method of adjustment.
- (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 determined by a resolution of the Board of Directors.
- (4) If there is a resolution not to pay the prescribed dividends on Class Shares, such Class Shares shall be deemed to have voting rights from the time of the next General Meeting of Shareholders until the close of any General Meeting of Shareholders in which a resolution is adopted to preferentially distribute dividends on such Class Shares.

(5) If the Company issues new shares, the new share allotment for Class Shares shall be made with the same shares as those allotted to common stock in the case of a capital increase for consideration and/or stock dividends, and with the same Class Shares in the case of a capital increase without consideration, in which case the allotment rate shall be as same as the stock allotment rate applicable to common stock.

Article 10-2. (Redeemable Preferred Shares)

- (2) Type 2 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 profits, and the number of Class Shares to be issued shall not exceed one-half (1/2) of the total number of issued shares of the Company.
- (3) With respect to Class Shares' preferred dividends, participating or cumulative nature, revival of voting rights upon the non-distribution of dividends, class of shares to be allotted upon new share issuances and allotment rate, Articles 10(2) through (5) shall apply *mutatis mutandis*.
- (4) Class Shares redeemable at the option of the Company may be issued by a resolution of the Board of Directors, in which case such Class Shares may be redeemed at the option of the Company by a resolution of the Board of Directors based on the following:
 - 1. The redemption period shall be within a period from the day immediately following the close of an ordinary General Meeting of Shareholders for the fiscal year in which the issuance date falls to the day one (1) month after the close of an ordinary General Meeting of Shareholders for the fiscal year in which the fiftieth (50th) anniversary of the issuance date falls, 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.
 - The Company may redeem all the Class Shares on a lump sum basis or in installments; provided, that
 in the case of a redemption in installments, such redemption may be determined by the Company to be
 made by lot or on a prorated basis, and any fractional shares arising from such proration shall not be
 redeemed.
 - 3. If the Company redeems Class Shares, such redemption shall be made within three (3) months from the date of approval of a draft statement of appropriation of retained earnings at an ordinary General Meeting of Shareholders.
 - 4. The redemption price shall be determined by the Board of Directors, at the time of resolution of the issuance of the Class Shares, from among par value, market value upon redemption, issue price, and the issue price plus the amount calculated by considering the dividend rate, market conditions and other various circumstances relating to the issuance of the Class Shares.
 - 5. With respect to Class Shares that must be redeemed on the last day of the redemption period, if preferred dividends have not been distributed or if redemption has not been made due to lack of profits of the Company, the redemption period shall be extended up until the time the reason for such failure is resolved.
 - 6. The Company shall notify the fact of redemption of redeemable shares to the holders of such shares and rights holders listed in the shareholder register at least two (2) weeks prior to the date of acquisition of the shares subject to redemption.
- (5) The Company may, by a resolution of the Board of Directors, issue Class Shares redeemable upon a request of the shareholders, in which case such shareholders may request redemption to the Company based on the following:
 - 1. With respect to the redemption request period, Item 1 of Paragraph (3) shall apply *mutatis mutandis*; provided, that the "redemption period" under Item 1 of Paragraph (3) shall be replaced with "redemption request period."
 - 2. With respect to the approval of a draft statement of appropriation of retained earnings, Item 3 of Paragraph (3) shall apply *mutatis mutandis*.

- 3. With respect to the redemption price, Item 4 of Paragraph (3) shall apply *mutatis mutandis*.
- 4. With respect to the extension of a redemption period, Item 5 of Paragraph (3) shall apply *mutatis mutandis*; provided, that "redemption period" under Item 5 of Paragraph (3) shall be replaced with "redemption request period."
- 5. Shareholders may request the Company to redeem all the Class Shares on a lump sum basis or in installments; provided, that the Company may redeem the shares in installments if it lacks distributable profits at the time of the redemption request, and in the case of a redemption in installments, such redemption may be determined by the Company to be made by lot or on a prorated basis, and any fractional shares arising from such proration shall not be redeemed.
- 6. Shareholders requesting redemption shall notify the Company of their 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) Type 3 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 have the right to be converted into common stock or other types of shares, and the number of Class Shares to be issued shall not exceed one-half (1/2) of the total number of issued shares of the Company.
- (2) With respect to Class Shares' preferred dividends, participating or cumulative nature, revival of voting rights upon the non-distribution of dividends, class of shares to be allotted upon new share issuances and allotment rate, Articles 10(2) through (5) shall apply *mutatis mutandis*; provided, that in case of any conversion rate adjustment pursuant to the proviso of Item 1 of Paragraph (3), the allotment rate for a capital increase for consideration and/or stock dividend shall be subject to the conversion rate at the time of such adjustment.
- (3) The Company may convert Class Shares or shareholders holding Class Shares may request 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 before the conversion; provided, that the conversion rate may be adjusted by the Board of Directors pursuant to anti-dilution provisions within the scope of laws and regulations taking into consideration reasonable shareholder right anti-dilution practices at the time of issuance.
 - 2. The period for conversion or request for conversion shall be determined by a resolution of the Board of Directors within a range of no less than one (1) year but less than ten (10) years from the issue date.
 - 3. Shares to be issued by conversion shall be common stock or other types of 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) Type 4 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 profits and have the right to be converted into common stock or other types of shares. The number of Class Shares to be issued shall not exceed one-half (1/2) of the total number of issued of the Company.
- (2) With respect to Class Shares' preferred dividends, participating or cumulative nature, revival of voting rights upon the non-distribution of dividends, class of shares to be allotted upon new share issuances and allotment rate, Articles 10(2) through (5) shall apply *mutatis mutandis*; provided, that in case of any

- conversion rate adjustment pursuant to the proviso of Item 1 of Paragraph (3) of Article 10-3, the allotment rate for a capital increase for consideration and/or stock dividend shall be subject to the conversion rate at the time of such adjustment.
- (3) With respect to a redemption of Class Shares, Paragraph (3) or (4) of Article 10-2 shall apply *mutatis mutandis*.
- (4) With respect to a conversion of Class Shares, Paragraph (3) of Article 10-3 shall apply *mutatis mutandis*.

Article 10-5. (Term Convertible Preferred Shares)

- (1) Type 5 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 shares of the Company.
- (2) With respect to Class Shares' preferred dividends, participating or cumulative nature, revival of voting rights upon the non-distribution of dividends, class of shares to be allotted upon new share issuances and allotment rate, Articles 10(2) through (5) shall apply *mutatis mutandis*; provided, that in case of any conversion rate adjustment pursuant to the proviso of Item 1 of Paragraph (3) of Article 10-3, the allotment rate for a capital increase for consideration and/or stock dividend shall be subject to the conversion rate at the time of such adjustment.
- (3) The term of the Class Shares shall be determined by a resolution of the Board of Directors upon issuance within a range of one (1) year to fifty (50) years from issuance, and simultaneously upon the expiration of such term, the Class Shares shall be converted into shares of common stock in the same number; provided, that in case of any cumulative Class Shares, if any prescribed dividend fails to be made during such period, the relevant term may be extended until payment of the dividend, and the conversion rate may be adjusted pursuant to the proviso of Item 1 of Paragraph (3) of Article 10-3.

Article 11. (Preemptive Rights)

- (1) The issuance of new shares by the Bank 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, 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 number of issued shares of the Company
 - 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, up to 50/100 of the total number of issued 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), such new shares shall be allotted by 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 the 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 the 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 the new shares which had not been subscribed for
- 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 Item 2 or 3 of Paragraph (1), 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), 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 the issue price.
- (6) Fractional shares, if any, resulting from the allotment of new shares shall be disposed of by a resolution of the Board of Directors.
- (7) In the event of allotment of new shares under Item 1 of Paragraph (1), 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; the same applies hereinafter in this Article) stock options pursuant to the KCC and other applicable laws, up to 15/100 of the total number of issued 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 shares of the Company, subject to approval by the first General Meeting of Shareholders held after the date of grant of such stock options.
- (2) The persons who are entitled to receive stock options shall be the officers and employees under Paragraph (1) who have contributed, or are capable of contributing, to the establishment, management, technological innovation, 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 options 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 options.
- (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 delivered upon the exercise of stock options shall be common stock.

- (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
 - 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 (2nd) anniversary of the date of the resolution of the General Meeting of Shareholders or the Board of Directors granting such stock options.
- (7) The grantee of stock options may only exercise the stock options after such grantee 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); provided, that the grantee may exercise the stock options during the exercise period 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), 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 such grantee's 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.
 - 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 based on performance, and any exercise of such stock options may be cancelled or postponed if the relevant performance goal is not achieved.

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. (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 shareholder register 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 shareholder register and other matters related to shares.
- (4) The relevant procedures for the activities referred to in Paragraph (3) 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 registry 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. (Close of Shareholder Register and Record Date)

- (1) The shareholders listed in the shareholder register as of December 31 of each year shall be entitled to exercise their rights as shareholders at an ordinary General Meeting of Shareholders convened for such fiscal year.
- (2) The Company may, if necessary for convening an extraordinary General Meeting of Shareholders or for any other necessary reason, (i) suspend any entry of changes on rights in the shareholder register for a certain period not exceeding three months as determined by a resolution of the Board of Directors, or (ii) deem the shareholders listed on the shareholder register on a certain day determined by a resolution of the Board of Directors as shareholders entitled to exercise shareholders' rights. If deemed necessary by the Board of Directors, the Company may suspend any entry of changes in the shareholder register and concurrently designate a record date. The Company shall give a notice thereof to the public at least two (2) weeks prior to the scheduled date of the meeting.

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 on March 25, 2020>

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 an aggregate par value of KRW 2 trillion:
 - 1. Granting certain persons (including 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. Granting a large number of unspecified persons (including 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), 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 the bonds

- 2. Granting 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
- 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).
- (4) The shares to be issued upon conversion shall be common stock, and the conversion price, which shall be equal to or greater than the par 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 such 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 an aggregate par value of KRW 2 trillion:
 - Granting certain persons (including 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 shareholders of the Company) an 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), 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 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
 - 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 par value of the bonds with warrants.
- (4) The shares to be issued upon the exercise of the warrants shall be common stock, and the issue price, which shall be equal to or greater than the par value of the shares, shall be determined by the Board of Directors at the time of issuance of the bonds with warrants.

(5) The exercise period of the warrants 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 such period by a resolution of the Board of Directors.

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 an aggregate par value of KRW 1 trillion.
- (2) With respect to the participation in profit distribution on the bonds under Paragraph (1), the relevant matters shall be determined by the Board of Directors upon issuance of the bonds based on the profit distribution of common stock.

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 shall be exempted from the obligations to redeem such bonds and pay interest thereon upon the occurrence of any of the events predetermined by a resolution of the Board of Directors according to objective and reasonable standards at the time of the issuance of such securities, 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 aggregate par value of KRW 2 trillion and may issue bail-in contingent capital securities up to the aggregate 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 Company Act as follows; the Board of Directors of the Company may determine the class and terms of the shares to be issued by conversion when the 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
 - 2. If the Company satisfies certain conditions relating to the Company's managerial performance or financial structure that are predetermined at the time of issuance of the convertible contingent capital securities
- (4) The obligations of redemption and the payment of interest of any bail-in contingent capital securities issued by the Company shall be reduced ("debt restructuring") in the event of the items set forth in Paragraph (3). The Board of Directors may determine the details and terms 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) The Company's shareholders shall be entitled to convertible contingent capital securities prorated to the number of shares held in an issuance of convertible contingent capital securities.
- (6) Notwithstanding Paragraph (5), the Company may issue convertible contingent capital securities to persons other than existing shareholders by a resolution of the Board of Directors as follows:
 - to Korean and foreign financial institutions or institutional investors for urgent funding purposes, to the
 extent the number of shares to be issued by a conversion of the convertible contingent capital securities
 does not exceed the total number of issued shares
 - 2. to foreign investors, Korean and foreign financial institutions, institutional investors, allied companies, etc. by a method other than that set forth in Item 1 if necessary for managerial purposes of the Company, such as the introduction of new technology, improvement of the financial structure of the

- Company or its subsidiary, etc., funding, strategic business alliance, etc., to the extent the number of shares to be issued by a conversion of the convertible contingent capital securities does not exceed the total number of issued shares
- 3. where a large number of unspecified persons (including shareholders of the Company) are granted the opportunity to subscribe for convertible contingent capital securities, and thereby convertible contingent capital securities are issued to subscribers through allotment

Article 22. (Applicable Provisions for the Issuance of Bonds)

With respect to issuance of bonds, Articles 14 shall apply *mutatis mutandis*.

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) 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, 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), 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 its vicinity.

Article 27. (Chairman)

- 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*.

Article 28. (Chairman's Authority to Maintain Order)

- (1) The chairman of the General Meeting of Shareholders may order persons who purposely speak or act in a manner that prevents or disrupts the deliberations of the General Meeting of Shareholders or who otherwise significantly disturb 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 per share.

Article 30. (Split Voting)

- (1) If any shareholder holding two (2) or more votes wishes to split the votes, such shareholder 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 the votes, unless the shareholder acquired the shares in trust or otherwise holds the shares for and on behalf of another person.

Article 31. (Voting by Proxy)

- (1) A shareholder may exercise voting through a proxy.
- (2) A proxy holder under Paragraph (1) 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 shares of the Company.
- (2) The number of voting rights exercised under Article 33 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 voting rights in writing without being present at a General Meeting of Shareholders.
- (2) In the case of Paragraph (1), 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 voting rights in writing shall indicate the necessary information pursuant to Paragraph (2) in written form, and shall submit the completed forms to the Company at least one (1) day prior to the date of the General Meeting of Shareholders.

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 standing 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) and form 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 elected among those recommended by the Committee for Recommending Executive Officer Candidates.

Article 37. (Term of Director)

- (1) The term of office of a Director shall be not more than three (3) years as determined at a General Meeting of Shareholders, and a Director so appointed may be reappointed
- (2) Notwithstanding Paragraph (1), 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) 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 the Director's 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 such person 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 such person can fairly perform the duties of an outside Director for the interests of the shareholders and financial consumers without being bound by special interest
- Whether such person has the ethics and a sense of responsibility appropriate to perform the duties of an outside Director
- 4. Whether such person can allocate sufficient time and exercise efforts as required to faithfully perform the duties of an outside Director
- (2) No person who falls under the disqualifications set forth in the Act on the Governance Structure 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 a 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 such person's 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 of 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 such duties, 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 duties in accordance with applicable laws and regulations as well as these Articles of Incorporation and shall not, either during the Director's term of office or thereafter, disclose business secrets of the Company that have come to the Director's knowledge in the course of performing 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 for the Board of Directors prescribed 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 the annual closing of accounts
- 4. Matters regarding material changes to the organization, such as dissolution, business transfer and merger, etc.
- 5. 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.
- 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) 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 chairman duties, the Director as determined by the Board of Directors shall perform such duties.

Article 45. (Convening of a Meeting of the Board of Directors)

- (1) 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 a majority of the Directors present at such meeting where more than a majority 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 meeting, by means of a communication system whereby they may simultaneously receive and transmit live audio communication. Any Director participating in a Board of Directors meeting in such 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 the minutes.
- (2) The minutes shall record agenda, proceedings and results of a Board of Directors meeting and the dissenting Directors, if any, and such Directors' 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. Committee for Recommending Executive Officer Candidates
 - 2. Audit Committee
 - 3. Board Risk Management Committee
 - 4. Compensation Committee
 - 5. Committee for Recommending Subsidiary Representative Director Candidates; and
 - 6. Committee for Internal Control Management
 - 7. ESG Management Committee
- (2) Details regarding composition, powers, operation, etc. of each of such 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)

- (1) The Company may, by a resolution at a General Meeting of Shareholders, exempt the liabilities of a Director of the Company under Article 399 of the KCC for the amount exceeding six (6) times (or three (3) times in the case of an outside Director) the amount of the Director's remuneration (including 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) 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 the Governance Structure 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 a General Meeting of Shareholders from among the candidates recommended by the Committee for Recommending Executive Officer Candidates 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 a cause such as the resignation or death of a 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 representative (i.e., its chairman) from among the outside Directors by a resolution of the Audit Committee. In such case, several persons can be appointed as joint representatives 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 the convocation of a meeting of the Board of Directors by submitting the agenda and reasons for convening such meeting in writing to the Chairman of the Board of Directors.
- (3) If, despite the request under Paragraph (2), 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 the convocation of 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 January 1 and end on December 31 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 audit 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. Statement of financial position
 - 2. Statement of income

- 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 consolidated financial statements pursuant to the Enforcement Decree of the KCC, the documents under Paragraph (1) shall include consolidated financial statements.
- (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), 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), the Representative Director shall promptly publicly disclose the statement of financial position, the statement of income and the consolidated statement of financial position and consolidated statement of income. Notwithstanding Article 4, such public disclosure may be given in the form of electronic documents prescribed under the Financial Holding Company 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)

The Company shall dispose of the retained earnings of the Company of each fiscal year as follows:

- 1. Earned surplus reserve
- 2. Other statutory reserves
- 3. Dividends
- 4. Voluntary reserves
- 5. Other appropriated retained earnings

Article 58. (Retirement of Shares)

- (1) The Company may retire shares within the scope of profits distributable to shareholders by a resolution of the Board of Directors.
- (2) In order to retire shares pursuant to Paragraph (1), the Board of Directors shall determine the following by resolution:
 - 1. Types and the total number of shares to be retired
 - 2. The total amount of shares to be acquired for retirement
 - 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:
 - 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

- 2. The 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 profit distribution at the end of the relevant 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 at 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) Dividends under Paragraph (1) shall be paid to the shareholders listed in the shareholder register of the Company or registered pledgees as of the date set forth in Article 16 (1).
- (3) If the Company distributes dividends in other property under Paragraph (1), 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. (Interim Dividends)

- (1) The Company may pay interim dividends under the KCC and other applicable laws and regulations to the shareholders listed in the shareholder register of the Company as of a certain date determined by the resolution of the Board of Directors only once each fiscal year.
- (2) The interim dividends shall be paid within the amount remaining after deducting the following from the net assets recorded in the statement of financial position of the immediately preceding fiscal year:
 - 1. Paid in capital for the immediately preceding fiscal year
 - 2. Sum of capital reserves and earned surplus reserves accumulated up to the immediately preceding fiscal year
 - 3. Unrealized gain as set forth in the Enforcement Decree of the KCC
 - 4. Amount resolved to be distributed as profits at an ordinary General Meeting of Shareholders for the immediately preceding fiscal year
 - 5. 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
 - 6. Earned surplus reserves to be accumulated for the relevant fiscal year as a result of the interim dividends
- (3) For interim dividends, the same dividend rate as that of common stock of the Company shall apply to class shares under Articles 10 through 10-5.
- (4) No interim dividends shall be paid if profit is not expected for the relevant fiscal year.

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), any unclaimed dividends shall revert to the Company.

Article 62. (Supplementary Rules)

Matters not provided herein shall be determined by a resolution of the Board of Directors or at a 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, the initial transfer agent after incorporation shall be the Korea Securities Depository.

Article 3. (Appointment of Initial Representative Director, Outside Directors and Audit Committee Members after Incorporation)

Notwithstanding Articles 36 and 40, the initial Representative Director, outside Directors and Audit Committee members shall be appointed by approval of the share transfer plan of the share transferring companies without recommendation of the Committee for Recommending Executive Officer Candidates.

Article 4. (Term of Office of Initial Directors after Incorporation)

Notwithstanding Article 37, the term of office of the initial Directors after incorporation of the Company shall be determined by approval of the share transfer plan of the share transferring companies to the extent permitted under applicable laws and regulations.

Article 5. (Remuneration of Directors for the Initial Fiscal Year after Incorporation)

Notwithstanding Article 49, 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 the maximum amount.

Article 6. (Initial Fiscal Year after Incorporation)

Notwithstanding Article 54, 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 Companies)

Addenda (March 25, 2020)

These Articles of Incorporation shall become effective as of March 25, 2020.

Addenda (March 26, 2021)

The amended Articles of Incorporation shall become effective as of March 26, 2021.

In order to incorporate the Company, the share transferring companies set forth below shall prepare these Articles of Incorporation and affix their names and seals hereon as of June 19, 2018.

Woori Bank

51, Sogong-ro, Jung-gu, Seoul

Representative Director: Tae Seung, Sohn (seal)

Woori FIS Co., Ltd.

17, World Cup buk-ro 60-gil, Mapo-gu, Seoul Representative Director: Jae Hyun, Cho (seal)

Woori Finance Research Institute Co., Ltd.

110, Huam-ro, Jung-gu, Seoul

Representative Director: Kwang Hae, Choi (seal)

Woori Credit Information Co., Ltd. 15, Eulji-ro 11-gil, Jung-gu, Seoul

Representative Director: Hong Hee, Kim (seal)

Woori Fund Services Co., Ltd.

17, World Cup buk-ro 60-gil, Mapo-gu, Seoul Representative Director: Hyeong Min, Park (seal)

Woori Private Equity Asset Management Company, Ltd.

136, Sejong-daero, Jung-gu, Seoul

Representative Director: Kyung Woo, Kim (seal)

Woori Financial Group: Code of Ethics

As a leading financial group in Korea, Woori Financial Group aspires to become a financial group that empowers its customers, shareholders, employees, as well as the future of our nation and society. Through ethical management, we strive to contribute to the national economy and the development of society. We hereby establish and actively implement this Code of Ethics in order to fulfill our role and responsibilities as a top-class financial group in Korea leading the global finance industry.

This Code of Ethics applies to all subsidiaries of Woori Financial Group and its employees, and each subsidiary may implement its own Code of Conduct so long as it remains consistent with this Code. In addition, Woori Financial Group encourages all stakeholders in its business and transaction relationships, including its suppliers and service providers, to fully understand and follow the spirit and content of this Code and the Code of Conduct.

Chapter 1. Ethics for Customers

Woori Financial Group considers the happiness and trust of its customers to be its first priority and aims to stand by its customers at all times.

- 1.Customers are essential to the existence and growth of Woori Financial Group. We thus value the happiness and trust of our customers, and think and act with a customer-centered mentality.
- 2. To protect the legitimate interests and property of our customers, we shall fulfill our fiduciary duty as good managers.
- 3. We will not engage in any activities that may potentially harm the interests of our customers, and will uphold the confidentiality of customer information and not allow such information to be disclosed outside Woori Financial Group or to be used for other purposes without their consent.

Chapter 2. Ethics for Shareholders

Woori Financial Group respects its shareholders' rights and strives to provide shareholders with the highest value.

- 1. We will attain our shareholders' trust by pursuing reasonable profits through rational business operations, responsible management and fair business practices.
- 2. We shall maximize shareholder investment value by realizing stable and sound profits, and ensure that shareholders can exercise their legitimate rights to the furthest possible extent.
- 3. All shareholders shall be treated fairly and equally, and management decisions shall be based on the interests of all shareholders so that their interests or rights are not unduly infringed upon.
- 4. We shall provide necessary information to shareholders in a timely and fair manner in accordance with the relevant laws and regulations, and shall not provide any undisclosed information to specific shareholders.
- 5. We will maintain the accuracy and reliability of accounting data by recording and managing it in accordance with generally accepted accounting principles. We will prevent the risk of financial incidents in advance by operating effective risk management and internal control systems.
- 6. We will endeavor to realize the fair value of Woori Financial Group by means of rational decision-making and transparent management activities.

Chapter 3. Ethics for Employees

Woori Financial Group considers its employees to be its most valuable assets, and strives to make the group a workplace that they can take pride in and where their dreams and futures are guaranteed.

1. We shall establish a system to treat each employee with dignity as an individual and to help them perform their duties in a fair manner.

- We shall provide the necessary resources and environment for all of our employees to maximize their capabilities, and will evaluate and compensate them fairly and reasonably according to their skills and performance.
- 3. We will provide a place where a balance between work and life can be achieved, and foster a pleasant work environment to promote the health and safety of all our employees.
- 4. When employees recognize and report unjust activities that are in violation of the relevant laws or our Code of Ethics, we will ensure the strict confidentiality of the reporter and guarantee that no disadvantage is brought upon them as a result of the act of reporting the violation.

Chapter 4. Ethics for the Nation and Society

Woori Financial Group fulfills its social responsibilities and contributes to the development of the national economy and society.

- 1. As a financial group that fulfills its social responsibilities, we will contribute to the development of the national economy through job creation and diligent tax payment.
- 2. We recognize that compliance with the law is the minimum standard for the performance of our business, and will take the initiative in establishing a fair financial order in compliance with the overall laws and market order.
- 3. We shall respect diversity in social values and customs, dismiss all social irregularities that hinder sound business activities, and fulfill our corporate social responsibility and role by means of education, culture, social welfare and other projects.
- 4. We recognize that protecting the natural environment is a prerequisite for the sustainable future of society, and thus will comply with environmental laws while actively participating in environmental protection activities.
- 5. We will not violate the principal of political neutrality by expressing opinions that support certain political parties or candidates or by sponsoring them, and political contributions or charitable donations will be made in compliance with the relevant laws and regulations.
- 6. We shall establish mutually beneficial relationships with partner companies and trading partners, and contribute to a fair society by pursuing joint development.
- 7. As a member of the international community, we shall observe its norms and respect the laws, customs and culture of the countries in which we operate.

Chapter 5. Work Ethics for Employees

All employees are committed to their roles and duties based on our ethical management philosophy, and are held responsible for any violations of the Code of Ethics.

- 1. Employees shall do their best to adopt an ethical management philosophy and act accordingly. Employees will keep in mind that their individual actions shape the ethical reputation of Woori Financial Group and determine the future of our company. Employees shall therefore make sound judgments and act properly based on the principles of integrity and trust.
- 2. Employees shall strive to avoid conflicts of interest with the company or its customers, and to act in the best interests of the company and its customers when such conflicts do arise.
- 3. Employees shall not engage in unfair transactions for personal gain by using undisclosed internal information acquired in the course of business or by providing undisclosed information to a third party without due process.
- 4. Employees shall not use the tangible or intangible assets of the company, such as company property, intellectual property rights, trade secrets, etc. for any purpose other than their intended business purposes.
- 5. Employees shall not take advantage of their positions of authority to obtain benefits such as money or entertainment from stakeholders such as trading companies, nor make unreasonable demands or offer benefits to stakeholders.

6. Employees shall not engage in inappropriate behavior including sexual harassment, abuse, or assault through physical, verbal or visual acts.

[Supplementary Provisions]

In the event that employees detect a violation of this Code of Ethics or the Code of Conduct, they shall report it to the compliance support or internal audit department without delay.

The compliance support department of Woori Financial Group may examine the compliance status for this Code of Ethics and the Code of Conduct

In the event that employees make decisions or actions not in compliance with the Code of Ethics or the Code of Conduct, they may be subject to investigation according to the relevant internal regulations, and disciplinary actions may be taken against them.

Established Jan. 11, 2019

Revised on April. 23, 2021

- I, Tae-Seung Son, 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 30, 2021

/s/ Tae-Seung Son

Tae-Seung Son
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 30, 2021

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, 2020 (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 30, 2021	/s/ Tae-Seung Son
	Tae-Seung Son
	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.

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, 2020 (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 30, 2021 /s/ Sung-Wook Lee

Sung-Wook Lee
Senior Managing Director and

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.