# Meritz Securities Co., Ltd. and its subsidiaries

Consolidated financial statements for the years ended December 31, 2016 and 2015 with independent auditors' report



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# Independent auditors' report

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Ernst & Young Han Young Taeyoung Building, 111, Yeouigongwon-ro, Yeongdeungpo-gu, Seoul 150-777 Korea

Tel: +82 2 3787 6600 Fax: +82 2 783 5890 ey.com/kr

## Independent auditors' report

The Shareholders and Board of Directors Meritz Securities Co., Ltd. and its subsidiaries.

We have audited the accompanying consolidated financial statements of Meritz Securities Co., Ltd. (the "Company") and its subsidiaries (collectively referred to as the "Group"), which comprise the consolidated statements of financial position as at December 31, 2016 and 2015, and the consolidated statements of comprehensive income, consolidated statements of changes in equity and consolidated statements of cash flows for the years then ended, and a summary of significant accounting policies and other explanatory information.

## Management's Responsibility for the Consolidated Financial Statements

Management is responsible for the preparation and fair presentation of these consolidated financial statements in accordance with Korean International Financial Reporting Standards, and for such internal control as management determines is necessary to enable the preparation of the consolidated financial statements that are free from material misstatement, whether due to fraud or error.

#### **Auditors' Responsibility**

Our responsibility is to express an opinion on these consolidated financial statements based on our audits. We conducted our audits in accordance with auditing standards generally accepted in the Republic of Korea. Those standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the consolidated financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the consolidated financial statements. The procedures selected depend on the auditors' judgment, including the assessment of the risks of material misstatement of the consolidated financial statements, whether due to fraud or error. In making those risk assessments, the auditors consider internal control relevant to the entity's preparation and fair presentation of the consolidated financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of accounting estimates made by management, as well as evaluating the overall presentation of the consolidated financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

#### **Opinion**

In our opinion, the consolidated financial statements present fairly, in all material respects, the financial position of the Group as at December 31, 2016 and 2015, and its financial performance and cash flows for the years then ended in accordance with Korean International Financial Reporting Standards.

#### March 15, 2017

This audit report is effective as at March 15, 2017, the independent auditors' report date. Accordingly, certain material subsequent events or circumstances may have occurred during the period from the date of the independent auditors' report to the time this report is used. Such events and circumstances could significantly affect the accompanying consolidated financial statements and may result in modifications to this report.

# Meritz Securities Co., Ltd. and its subsidiaries

Consolidated financial statements for the years ended December 31, 2016 and 2015

"The accompanying consolidated financial statements, including all footnotes and disclosures, have been prepared by, and are the responsibility of, the Group."

# Meritz Securities Co., Ltd. and its subsidiaries Consolidated statements of financial position as at December 31, 2016 and 2015

(Korean won in thousands)

	Notes	De	ecember 31, 2016	D	ecember 31, 2015
Assets					
Cash and due from banks	7, 37, 43, 44, 47	\	816,956,144	\	646,068,280
Financial assets at fair value	8, 23, 37, 43, 44, 45, 47		8,051,294,747		7,470,734,837
through profit or loss					
Available-for-sale financial assets	9, 37, 43, 44, 47		1,574,562,097		733,421,016
Investments in associates	10, 37		231,751,610		25,186,159
and joint ventures					
Loans	11, 43, 44, 45, 47		5,477,539,160		4,449,846,184
CMA	11, 43, 44, 47		28,009,548		54,820,249
Lease assets	12, 43, 44, 47		260,006,034		472,664,412
Property and equipment	13		99,645,669		101,299,873
Investment property	14		21,163,351		30,052,288
Intangible assets	15		35,713,934		40,451,501
Tax assets	35		65,029,381		45,992,366
Other assets	16, 37, 43, 44, 45, 47		606,141,558		358,131,463
Total assets		<u> </u>	17,267,813,233	<u> \</u>	14,428,668,628
Liabilities					
Deposits	17, 37, 43, 44, 47	\	3,102,818,819	\	3,463,870,842
Financial liabilities at fair value	18, 23, 37, 43, 44, 45, 47		2,626,203,945	`	1,196,829,299
through profit or loss	10, 20, 01, 10, 11, 10, 11		2,020,200,010		1,100,020,200
Borrowings	19, 43, 44, 45, 47		8,974,565,294		7,364,956,845
Provisions	20, 39		10,186,258		6,865,566
Defined benefit liabilities	21		2,628,149		1,506,629
Tax liabilities	35		14,966,779		76,054,817
Other liabilities	22, 37, 43, 44, 45, 47		658,133,762		600,020,384
Total liabilities		$\overline{Z}$	15,389,503,006	$\overline{Z}$	12,710,104,382
Equity					
Issued capital	24	\	496,638,534	\	496,638,534
Capital surplus and adjustments	25, 26	`	553,151,474	`	552,416,177
Accumulated other comprehensive income	25, 26		79,007,654		69,538,207
•	28				
Retained earnings	20		749,512,565		599,971,328
Equity attributable to equity holder of the paren	nt		1,878,310,227		1,718,564,246
Non-controlling shareholders' equity					
Total equity		7	1,878,310,227	<u>\</u>	1,718,564,246
Total liabilities and equity		$\overline{}$	17,267,813,233	<u> </u>	14,428,668,628

## Meritz Securities Co., Ltd. and its subsidiaries Consolidated statements of comprehensive income for the years ended December 31, 2016 and 2015

(Korean won in thousands)			
(Notean worth thousands)		Year ended	Year ended
	Notes	December 31,	December 31, 2015
Operating revenues:	-110100		2000111201 01, 2010
Commission income	29	\ 343,273,840	\ 346,740,943
Gain on valuation and disposal of financial instruments	30	498,547,762	471,392,957
Gain on derivative valuation and transactions	23, 30	2,560,164,797	1,557,499,954
Interest income	31	478,379,756	438,896,325
Gain on valuation and disposal of loans	11	8,294,777	25,229,847
Gain on foreign exchange transactions		1,009,782,003	291,664,682
Lease income	12	27,107,273	40,010,387
Others	33	21,051,457	69,613,838
Others	33	4,946,601,665	3,241,048,933
		4,940,001,000	3,241,040,933
Operating expenses:			
Commission expenses	29	(29,693,021)	(21,292,401)
Loss on valuation and disposal of financial instruments	30	(502,413,130)	(314,277,243)
Loss on derivative valuation and transactions	23, 30	(2,497,752,034)	(1,546,492,097)
Interest expenses	31	(242,891,204)	(223,139,350)
Loss on valuation and disposal of loans	11	(11,352,283)	(14,759,959)
Loss on foreign exchange transactions	11	(1,009,575,611)	(308,845,807)
General and administrative expenses	32	(319,643,722)	(395,222,256)
•	32 12		
Lease expense Others	33	(1,052,273)	(1,587,037)
Others	33	(5,372,412)	(10,312,629) (2,835,928,779)
		(4,619,745,690)	(2,033,920,119)
Operating income		326,855,975	405,120,154
Other income	34	8,630,514	4,233,589
Other expenses	34	(2,883,630)	(2,865,106)
Curio, experience	0.	(2,000,000)	(2,000,100)
Income before income taxes		332,602,859	406,488,637
Income tax expense	35	(78,756,155)	(119,151,902)
Net income	28	253,846,704	287,336,735
Other comprehensive income:			
Items that will not be reclassified subsequently to profit or loss:			
Remeasurements of the net defined benefit liabilities	21	(36,999)	(293,932)
		(00,000)	(===,===)
Items that may be reclassified subsequently to profit or loss:			
Gain (loss) on valuation of available-for-sale financial assets	9	8,970,776	(58,971,291)
Gain (loss) on effect of foreign currency translation	•	(10,155)	10,542
Capital change in equity method		545,824	-
Capital offange in equity menteu		0.0,02.	
		9,469,446	(59,254,681)
Total comprehensive income:		<b>263,316,150</b>	228,082,054
Controlling interests		263,316,150	237,469,543
Non-controlling interests		-	(9,387,489)
Basic and diluted earnings per share	36	√ 560	<u>\ 812</u>

The accompanying notes are an integral part of the consolidated financial statements

	Issued capital	Capital surplus	Accumulated other comprehensive income	Retained earnings	Non-controlling shareholders' equity	Total
As at January 1, 2015	\ 311,782,377	\ 111,625,899	\ 128,205,667	\ 348,143,771	\ 177,373,799	\ 1,077,131,513
Dividends	-	-	-	(44,309,445)	-	(44,309,445)
Total comprehensive income:						
Net income	-	-	-	296,137,002	(8,800,267)	287,336,735
Other comprehensive income:						
Remeasurements of the net defined benefit liabilities	-	-	(341,683)	-	47,751	(293,932)
Gain (loss) on valuation of	-	-	(58,335,932)	-	(635,360)	(58,971,292)
available-for-sale financial assets						
Gain (loss) on foreign currency transactions	-	-	10,155	-	387	10,542
New issuance of stocks for stock options	50,000	14,709	-	-	-	64,709
New issuance of stocks for merger	66,811,951	144,828,868	-	-	(167,986,310)	43,654,509
Capital increase with consideration	117,994,206	295,366,946	-	-	-	413,361,152
Acquisition of treasury shares	-	(3,744)	-	-	-	(3,744)
Allocated expense, of stock options	-	583,499	-	-	-	583,499
As at December 31, 2015	\ 496,638,534	\ 552,416,177	\ 69,538,207	\ 599,971,328	\ -	\ 1,718,564,246

	Is	sued capital		Capital surplus	-	Accumulated other omprehensive income		Retained earnings	Non-controlling shareholders' equity		Total
As at January 1, 2016	_	496,638,534	/	552,416,177	/	69,538,207	/	599,971,328	-	\	1,718,564,246
Dividends		-		-		-		(104,305,466)	-		(104,305,466)
Total comprehensive income:											
Net income		-		-		-		253,846,703	-		253,846,703
Other comprehensive income:											
Remeasurements of the net defined benefit liabilities		-		-		(36,999)		-	-		(36,999)
Gain (loss) on valuation of		-		-		8,970,777		-	-		8,970,777
available-for-sale financial assets											
Capital change in equity method		-		-		545,824		-	-		545,824
Gain (loss) on foreign currency transactions		-		-		(10,155)		-	-		(10,155)
Allocated expense, of stock options		-		735,297		-		-	-		735,297
As at December 31, 2016	\	496,638,534	\	553,151,474	\	79,007,654	\	749,512,565	\ -	\	1,878,310,227

(Korean won in thousands)	Year ended December 31, 2016	Year ended December 31, 2015
Operating activities:	\ 332.602.850	\ 406.489.637
Net income before income taxes Adjustments to non-cash items :	\ 332,602,859	\ 406,488,637
Loss (gain) on valuation of financial instruments held-for-trading	21,221,231	2,924,442
Loss (gain) on derivative valuation, net	(18,171,280)	
Loss (gain) on valuation of financial assets designated at fair value	(10,111,200)	(20,200, 100)
through profit or loss, net	12,776,898	(1,905,440)
Loss(gain) on evaluation of other financial instruments, net	(6,016)	, , ,
Provision(reversal) of allowance for doubtful accounts	11,071,679	13,930,308
Provision (reversal) of other allowance for doubtful accounts	197,549	19,005
Loss (gain) on foreign currency translation, net	(2,310,496)	(372,903)
Depreciation of property and equipment	5,891,509	5,956,023
Amortization of intangible assets	7,109,290	7,188,060
Depreciation expenses on operating lease assets	242,586	747,426
Loss (gain) related to financial investments available-for-sale, net	(5,362,532)	(70,589,968)
Loss (gain) related to lease, net	(22,743)	(8,383)
Contribution to provision (reversal)	3,693,244	(199,193)
Provision(reversal) of credit risk adjustments	(71,309)	354,032
Day 1 profit or loss adjustments (reversal)	120,786	260,353
Post-employment benefit	4,382,567	4,510,330
Loss (gain) on valuation of incentives	(6,457,233)	
Compensation expenses associated with stock option	735,297	583,499
Other operating revenues	(695,020)	, ,
Loss (gain) on disposal of property and equipment, net	235,249	24,638
Loss (gain) on disposal of investment property	85,597	-
Loss (gain) on disposal of intangible assets, net	(244,305)	
Loss (gain) on disposal of investments	(875,416)	(1,294,608)
in associates, subsidiaries and joint venture, net		2 565 660
Impairment loss on intangible assets	(2.452.020)	2,565,669
Loss (gain) in equity method	(2,453,020)	
Impairment loss on investments in associates and joint venture (reversal)	(34,661) (502,991,670)	•
Interest income Interest expense	242,891,204	223,139,350
Dividend income	(13,474,703)	
Dividend income	(242,515,718)	
Changes in operating assets and liabilities:	(242,010,710)	(020,400,000)
Cash and Due from banks	(59,170,369)	(48,646,097)
Held-for-trading financial assets	(547,914,581)	, , ,
Financial assets at fair value through profit or loss	(94,051,657)	
Loans	(1,028,417,146)	, , , , ,
CMA	26,900,000	3,100,000
Lease assets	212,694,088	135,801,767
Other assets	(237,711,408)	(160,206,111)
Due to customers	(368,826,811)	
Held-for-trading financial liabilities	1,278,318,269	-
Financial liabilities at fair value through profit or loss	155,774,833	(249,292,242)
Provisions	(773,622)	(119,571)
Defined benefit liabilities	(3,309,775)	(7,783,030)
Other liabilities	96,925,870 (569,562,309)	(2,523,064,473)
Total interest received	461,509,698	469,210,993
Total interest received  Total interest paid	(232,003,147)	
Total dividends received	12,929,783	19,500,268
Income tax paid	(161,846,522)	
Net cash flows used in operating activities	(398,885,356)	(2,262,815,482)

# Meritz Securities Co., Ltd. and its subsidiaries Consolidated statements of cash flows for the years ended December 31, 2016 and 2015

(Korean won in thousands) (Continued)

(Continued)	December 31, 2016	December 31, 2015		
Investing activities:				
Disposal of financial assets available-for-sale	\ 1,820,102,518	<b>574,862,656</b>		
Disposal of invetment associates and joint venture	410,649,725	-		
Receipt of dividends from assoiciates	2,515,298	-		
Disposal of property and equipment	292,214	-		
Disposal of investment property	8,246,382	-		
Decrease in intangible assets	2,175,007	-		
Decrease in guarantee deposits	632,588	832,405		
Acquisition of financial assets available-for-sale	(2,615,309,352)	(602,729,718)		
Acquisition of investment associates and joint venture	(615,771,561)	-		
Acquisition of property and equipment	(3,835,109)	(5,271,313)		
Acquisition of intangible assets	(3,872,753)	(1,353,138)		
Increase in guarantee deposits	(1,691,326)	(696,065)		
Disposal of investments in subsidiaries (Note 41)	(307,945)	(28,158,040)		
Net cash flows used in investing activities	(996,174,314)	(62,513,213)		
Financing activities:				
Increase in borrowings, net	1,609,550,628	2,071,137,851		
Cost of stock issuing	<del>-</del>	413,070,180		
Acquisition of treasury stock	-	(3,744)		
Subsidary's appraisal right by stockholders	<del>-</del>	(259,702)		
Dividends paid	(104,305,466)	(44,309,445)		
Net cash provided by financing activities	1,505,245,162	2,439,635,140		
Net increase in cash and cash equivalents	110,185,492	114,306,445		
Effect from exchange rate changes on cash and cash equivalents	776,176	228,025		
Cash and cash equivalents at the beginning of the year (Note 7)	546,225,923	431,691,453		
Cash and cash equivalents at the end of the year (Note 7, 41)	<b>\</b> 657,187,591	<b>546,225,923</b>		

## 1. Group information

Meritz Securities Co., Ltd. (the "Company") was established on February 24, 1973 under the name of Hanil Securities Co., Ltd. and primarily engages in the securities business including brokerage service, proprietary trading and underwriting of securities. The Company changed its name to Hanjin Investment Securities Co., Ltd. on October 1, 1990 and finally changed its current name to Meritz Securities Co., Ltd. on March 1, 2000.

The Company merged its subsidiary, Meritz Investment Bank Co., Ltd. ("Meritz IB") on April 1, 2010. As a result of the merger, the Company is allowed to maintain Meritz IB's operation, which is various financial services related to commercial paper, providing corporate loans and payment guarantees and other related services, until March 2020 according to the Financial Investment Industry Regulations. The Company operates through a network of the main office, 7 domestic branches including 1 sales department.

The Company prepared consolidated financial statements of the Company and its subsidiaries (see Note 2) (collectively referred to as the "Group") in accordance with KIFRS 1110 *Consolidated Financial Statements*. Investments in an associate and interest in a joint venture are accounted for using the equity method in the consolidated financial statements.

The Company is listed on the Korea Exchange ("KRX"), and the major shareholders of the Company as of December 31, 2016 are as follows:

Shareholders	Number of shares	Percentage of ownership (%)
Meritz Financial Group Inc.		
("Meritz FG")	160,702,302	32.36
Cho Jeong Ho	6,424,646	1.29
Treasury Stock	43,136,506	8.69
Others	_286,375,080	57.66
	496,638,534	100.00

## 2. Scope of consolidation

# 2.1 The Company's equity ownership in its consolidated subsidiaries as of the reporting date is summarized as follows:

	December 31, 2016					
Investee	Country	Ownersh ip (%)	Company	Main Business	Type of control	
Eugene Separate Taxation High- Yield PE No.2	Korea	100.00	Investment fund and trust	Investment in securities etc.	Equity holding	
Eugene Separate Taxation High- Yield PE No.7	Korea	90.45	Investment fund and trust	Investment in securities etc.	Equity holding	
Kiwoom Separate Taxation High- Yield No.2	Korea	69.33	Investment fund and trust	Investment in securities etc.	Equity holding	
Daishin Separate Taxation High- Yield Private Investment Trust No.2	Korea	67.21	Investment fund and trust	Investment in securities etc.	Equity holding	
Sparx Separate Taxation High- Yield No.1	Korea	99.21	Investment fund and trust	Investment in securities etc.	Equity holding	
Capstone Private MBS Real Estate Investment Trust No.2	Korea	100.00	Investment fund and trust	Investment in securities etc.	Equity holding	
Capstone Private MBS Real Estate Investment Trust No.3	Korea	100.00	Investment fund and trust	Investment in securities etc.	Equity holding	
Smart-S 6th Securitization Specialty Co., Ltd.	Korea	1.00	Special purpose company	Securitization of backed asset	ABS holding, a shareholder with th e right of residuary estate	
Smart-S 8th Securitization Specialty Co., Ltd.	Korea	1.00	Special purpose company	Securitization of backed asset	ABS holding, a shareholder with th e right of residuary estate	

# 2.1 The Company's equity ownership in its consolidated subsidiaries as of the reporting date is summarized as follows: (cont'd)

_	December 31, 2016							
Investee	Country	Ownership (%)	Company	Main Business	Type of control			
Smart-S 10th Securitization Specialty Co., Ltd.	Korea	1.00	Special purpose company	Securitization of ba cked asset	ABS holding, a shareholder with th e right ofresiduary estate			
Meritz Securitization Specialty Co., Ltd.	Korea	0.90	Special purpose company	Securitization of backed asset	A shareholder with the right of residuary estate			
M Square Gyeyang 1 <sup>st</sup>	Korea	-	Special purpose company	Securitization of loans on real estates	Mortgage loan commitment			
M Square Gyeyang 2 <sup>nd</sup>	Korea	-	Special purpose company	Securitization of loans on real estates	Mortgage loan commitment			
M Square Sungsu 1st	Korea	-	Special purpose company	Securitization of loans on real estates	Mortgage loan commitment			
M Square Pyeongchon 1st	Korea	-	Special purpose company	Securitization of loans on real estates	Mortgage loan commitment			
M Square Dongcheon 1st	Korea	-	Special purpose company	Securitization of loans on real estates	Mortgage loan commitment			
MJD 1 <sup>st</sup>	Korea	-	Special purpose company	Securitization of loans on real estates	Mortgage loan commitment			
Daegu SG	Korea	-	Special purpose company	Securitization of loans on real estates	Mortgage loan commitment			
New Commons 1st	Korea	-	Special purpose company	Securitization of backed asset	General loan			
Haeundae Project 1 <sup>st</sup>	Korea	-	Real estate finance	Loans on real estates	Mortgage loan commitment and general loan			
Haeundae Project 2 <sup>nd</sup>	Korea	-	Real estate finance	Loans on real estates	Mortgage loan commitment and general loan			
M Square Shihung 1st	Korea	-	Special purpose company	Securitization of loans on real estates	Mortgage loan commitment			
Sungbok 1 <sup>st</sup>	Korea	-	Special purpose company	Securitization of loans on real estates	Mortgage loan commitment			
M Square Osan 1 <sup>st</sup>	Korea	-	Special purpose company	Securitization of loans on real estates	Mortgage loan commitment			
DM 1 <sup>st</sup>	Korea	-	Real estate finance	Loans on real estates	General loan			
M Square Sangbong 2 <sup>nd</sup>	Korea	-	Special purpose company	Securitization of loans on real estates	Mortgage loan commitment			
M Square Woodong 1 <sup>st</sup>	Korea	-	Special purpose company	Securitization of loans on real estates	Mortgage loan commitment			
M Square Dadam	Korea	-	Special purpose company	Securitization of loans on real estates	Mortgage loan commitment			
M Square Yangsan 1 <sup>st</sup>	Korea	-	Special purpose company	Securitization of loans on real estates	Mortgage loan commitment			
Sanbon Master Plaza 1st	Korea	-	Special purpose company	Securitization of loans on real estates	Mortgage loan commitment and general loan			
M Square Jochon1 <sup>st</sup>	Korea	-	Real estate finance	Securitization of loans on real estates	Mortgage loan commitment and general loan			
M Square Gunsan 1 <sup>st</sup>	Korea	-	Special purpose company	Securitization of loans on real estates	Mortgage loan commitment			
Yongin Sungbok 1 <sup>st</sup>	Korea	-	Special purpose company	Securitization of loans on real estates	Mortgage loan commitment			
Aberlour 1 <sup>st</sup>	Korea	-	Special purpose company	Securitization of backed asset	Mortgage loan commitment			

# 2.1 The Company's equity ownership in its consolidated subsidiaries as of the reporting date is summarized as follows: (cont'd)

	December 31, 2016					
Investee	Country	Ownership (%)	Company	Main Business	Type of control	
Smart Lake 1st	Korea	-	Special purpose company	Securitization of loans on real estates	Mortgage loan commitment	
Dongdaemun H 1 <sup>st</sup>	Korea	-	Special purpose company	Securitization of loans on real estates	Mortgage loan commitment	
Nice Penta 1st	Korea	-	Special purpose company	Securitization of loans on real estates	Mortgage loan commitment	
MDS 1 <sup>st</sup>	Korea	-	Special purpose company	Securitization of backed asset	Mortgage loan commitment	
AM1 <sup>st</sup>	Korea	-	Special purpose company	Securitization of backed asset	Mortgage loan commitment	
SMK 1 <sup>st</sup>	Korea	-	Special purpose company	Securitization of backed asset	Mortgage loan commitment	
SMK 2 <sup>nd</sup>	Korea	-	Special purpose company	Securitization of backed asset	Mortgage loan commitment	
Smart R&D 1 <sup>st</sup>	Korea	-	Special purpose	Securitization of loans on real estates	Mortgage loan commitment	
UPS 1st	Korea	-	company Special purpose	Securitization of	Mortgage Ioan	
Highest Ocean 1st	Korea	-	company Special purpose	loans on real estates Securitization of	commitment Mortgage loan	
M Square Sagik 1 <sup>st</sup>	Korea	-	company Special purpose	loans on real estates Securitization of	commitment Mortgage loan	
M Square Chungju 1 <sup>st</sup>	Korea	-	company Special purpose	loans on real estates Securitization of	commitment Mortgage loan	
M Square Base 1st	Korea	_	company Special purpose	loans on real estates Securitization of	commitment Mortgage loan	
·	Korea		company Special purpose	loans on real estates Securitization of	commitment Mortgage loan	
Smart Dongcheon 1st		-	company Special purpose	loans on real estates Securitization of	commitment Mortgage loan	
Smart Penta 1 <sup>st</sup>	Korea	-	company Special purpose	loans on real estates Securitization of	commitment Mortgage loan	
Real benefit	Korea	-	company Special purpose	backed asset Securitization of	commitment	
M Square Mia 2 <sup>nd</sup>	Korea	-	company	loans on real estates	Mortgage loan commitment	
Smart Sanghyun 1st	Korea	-	Special purpose company	Securitization of loans on real estates	Mortgage loan commitment	
Yongin Sungbok 2 <sup>nd</sup>	Korea	-	Special purpose company	Securitization of loans on real estates	Mortgage loan commitment	
Smartup 1 <sup>st</sup>	Korea	-	Special purpose company	Securitization of backed asset	Mortgage loan commitment	
Smartup 2 <sup>nd</sup>	Korea	-	Special purpose company	Securitization of backed asset	Mortgage loan commitment	
Smartup 3 <sup>rd</sup>	Korea	-	Special purpose company	Securitization of backed asset	Mortgage loan commitment	
CD Two 1 <sup>st</sup>	Korea	-	Special purpose company	Securitization of loans on real estates	Mortgage loan commitment	
SLT 1 <sup>st</sup>	Korea	-	Special purpose company	Securitization of loans on real estates	Mortgage loan commitment	
Msquare Mia third, Co., Ltd.	Korea	-	Special purpose company	Securitization of loans on real estates	Mortgage loan commitment	
Msquare Mia fourth, Co., Ltd.	Korea	-	Special purpose company	Securitization of loans on real estates	Mortgage loan commitment	
B Lake First Co., Ltd.	Korea	-	Special purpose company	Securitization of loans on real estates	Mortgage loan commitment	
MJ Sangmi First Co., Ltd.	Korea	-	Special purpose company	Securitization of loans on real estates	Mortgage loan commitment	
Apple SG Co., Ltd.	Korea	-	Special purpose company	Securitization of loans on real estates	Mortgage loan commitment	
DSM 3rd Co., Ltd.	Korea	-	Special purpose company	Securitization of loans on real estates	Mortgage loan commitment	
Yongjuksg Co., Ltd.	Korea	-	Special purpose company	Securitization of loans on real estates	Mortgage loan commitment	
AM3 Co., Ltd.	Korea	-	Special purpose company	Securitization of backed asset	Mortgage loan commitment	

# 2.1 The Company's equity ownership in its consolidated subsidiaries as of the reporting date is summarized as follows: (cont'd)

	December 31, 2016					
Investee	Country	Ownership (%)	Company	Main Business	Type of control	
Yongin Seongbok 4th Co., Ltd.	Korea	- (70)	Special purpose	Securitization of	Mortgage loan	
foligili Seoligbok 4til Co., Ltd.	Norea		company	loans on real estates	commitment	
Dujeong SG Co., Ltd.	Korea	-	Special purpose company	Securitization of loans on real estates	Mortgage loan commitment	
Ol The Ocean 4st Oc. 14st	17	_	Special purpose	Securitization of	Mortgage loan	
SL The Ocean 1st Co., Ltd.	Korea		company	loans on real estates	commitment	
Haeundae SG Co., Ltd.	Korea	-	Special purpose company	Securitization of loans on real estates	Mortgage loan commitment	
Msquare Mia the first, Co., Ltd.	Korea	_	Special purpose	Securitization of	Mortgage loan	
ivisquare iviia trie first, Co., Ltd.	Noiea		company	loans on real estates	commitment	
H Society 3rd Inc.	Korea	-	Special purpose company	Securitization of loans on real estates	Mortgage loan commitment	
WE BEST Cheongdam 1st Co., Ltd.	Korea	-	Special purpose	Securitization of	Mortgage loan	
WE BEST Cheoriguant 1 Co., Etc.	Noiea		company	loans on real estates	commitment	
N.H.M.A 1 Co., Ltd.	Korea	-	Special purpose company	Securitization of loans on real estates	Mortgage loan commitment	
Doojung H.S 1 Co., Ltd.	Korea	-	Special purpose	Securitization of	Mortgage loan	
Doojung 11.3 1 Co., Ltd.	Noiea		company	loans on real estates	commitment	
MSM 1 <sup>ST</sup>	Korea	-	Special purpose company	Securitization of loans on real estates	Mortgage loan commitment	
Genius 2 <sup>nd</sup> Co., Ltd.	Korea	-	Special purpose	Securitization of	Mortgage loan	
Gerilus 2 ° Co., Ltd.	Norea		company	securities	commitment	
Msquare Myungji Co., Ltd.	Korea	-	Special purpose company	Securitization of loans on real estates	Mortgage loan commitment	
Yeksam Trinity 1st Co., Ltd.	Korea	-	Special purpose	Securitization of	Mortgage loan	
reksam minty 1 °Co., Ltd.	Norea		company	loans on real estates	commitment	
M SQUARE SONGJEONG	Korea	-	Special purpose company	Securitization of loans on real estates	Mortgage loan commitment	
SMART CHUNGDAM 1 <sup>ST</sup> Co., Ltd.	Korea	_	Special purpose	Securitization of	Mortgage loan	
SWART CHUNGDAW 1° Co., Ltd.	Norea		company	loans on real estates	commitment	
MBR Co., Ltd.	Korea	-	Special purpose company	Securitization of loans on real estates	Mortgage loan commitment	
AM 4 <sup>th</sup> INC.	1/	_	Special purpose	Securitization of	Mortgage loan	
AIVI 4 INC.	Korea		company	backed asset	commitment	
Yongin Sungbok 7 <sup>th</sup>	Korea	-	Special purpose company	Securitization of loans on real estates	Mortgage loan commitment	
BK AGE Inc.	Korea	_	Special purpose	Securitization of	Mortgage loan	
BRAGE IIIC.	Noiea		company	loans on real estates	commitment	
Chams Fild Oh Kid Co., Ltd.	Korea	-	Special purpose company	Securitization of backed asset	ABS holding, a shareholder	
M QUEENS 1st Inc.	Korea	-	Special purpose	Securitization of	Mortgage loan	
WI QUEENS I' IIIC.	Notea		company	loans on real estates	commitment	
TH 1 <sup>st</sup> Co., Ltd.	Korea	-	Special purpose company	Securitization of loans on real estates	Mortgage loan commitment	
H SOCIETY M	Vorce	-	Special purpose	Securitization of	Mortgage loan	
H SOCIETY IVI	Korea		company	loans on real estates	commitment	
SLT MISA	Korea	-	Special purpose company	Securitization of loans on real estates	Mortgage loan commitment	
WONJU SG	Korea	-	Special purpose	Securitization of	Mortgage loan	
WON30 33	Norea		company	loans on real estates	commitment	
MDMA 1 <sup>ST</sup> Co., Ltd.	Korea	-	Special purpose company	Securitization of loans on real estates	Mortgage loan commitment	
My Best 1st	Korea	-	Special purpose	Securitization of	Mortgage loan	
Wy Dest 1	Norca		company	loans on real estates	commitment	
Msquare Shihung 1st Co., Ltd.	Korea	-	Special purpose company	Securitization of loans on real estates	Mortgage loan commitment	
M square Sujeong	Korea	-	Special purpose	Securitization of	Mortgage loan	
ivi squale Sujeoliy	Norta		company	loans on real estates	commitment	
Genius 1 <sup>st</sup>	Korea	-	Special purpose company	Securitization of backed asset	General Ioan	
RREEF SPEZIAL INVEST GmbH	Korea	100.00	Investment fund	Investment in	Equity holding	
trust of security contract	Norta	100.00	and trust	securities etc.	Equity Holding	
G New Jump Short-Term Bond Investment Trust 1	Korea	100.00	Investment fund and trust	Investment in securities etc.	Equity holding	

# 2.1.1 The entities included in or excluded from the scope of consolidation for the year ended December 31, 2016 are as follows:

	O. L. of Parking	Reason for
Tanks de d'Ardhan ann a Paladan	Subsidiaries	consolidation
Included in the consolidation	M Square Mia 3rd	(*1)
	M Square Mia 4th	(*1)
	B Lake First Co., Ltd	(*1)
	MJ Sangmi First Co., Ltd	(*1)
	Apple SG Co., Ltd	(*1)
	DSM 3rd Co., Ltd	(*1)
	Yongjuksg Co., Ltd	(*1)
	AM3 Co., Ltd	(*1)
	Yongin Seongbok 4th Co., Ltd	(*1)
	Dujeong SG Co., Ltd	(*1)
	SL The Ocean 1st Co., Ltd	(*1)
	Haeundae SG Co., Ltd	(*1)
	Msquare Mia the first, Co., Ltd	(*1)
	H Society 3rd Inc.	(*1)
	WE BEST Cheongdam 1 <sup>st</sup> Co., Ltd	(*1)
	N.H.M.A 1 Co., Ltd	(*1)
	Doojung H.S 1 Co., Ltd	(*1)
	MSM 1 <sup>ST</sup>	(*1)
	Genius 2th Co., Ltd	(*1)
	Msquare Myungji Co., Ltd	(*1)
	Yeksam Trinity 1 <sup>st</sup> Co., Ltd	(*1)
	M SQUARE SONGJEONG	(*1)
	SMART CHUNGDAM 1 <sup>ST</sup> Co., Ltd	(*1)
	MBR Co., Ltd.	(*1)
	AM 4TH INC.	(*1)
	Yongin Sungbok 7 <sup>th</sup>	(*1)
	BK AGE Inc.	(*1)
	Chams Fild Oh Kid Co., Ltd.	(*1)
	M QUEENS 1ST Inc.	(*1)
	TH 1 <sup>st</sup> Co., Ltd	(*1)
	H SOCIETY M	(*1)
	SLT MISA	(*1)
	WONJU SG	(*1)
	MDMA 1 <sup>ST</sup> Co., Ltd	(*1)
	My Best 1 <sup>st</sup>	(*1)
	Msquare Shihung 1 <sup>st</sup> Co., Ltd	(*1)
	M square Sujeong	(*1)
Excluded from the consolidation	Gold digger equity MMT	(*2)
	MGS 1st	(*2)
	LTSB 1st	(*2)
	Eugene High Yield Private Investment Trust 1st	(*2)
	MDS Ocean 3rd	(*2)
	DS Haeundae Project	(*2)
	MDS Ocean 1st	(*2)
(+4)	China Asia Investment & Consulting Ltd.	(*3)

<sup>(\*1)</sup>These are structured entities with the objective of investing in loans related to real estate and are included in consolidation scope, because the Group has existing rights that give it the current ability to direct the relevant activities, and is not only exposed, or has rights, to variable returns, but also has the ability to use its power to affect the investees' returns from its involvement with them.

<sup>(\*2)</sup> The Group lost control of these entities due to liquidation, termination of transaction, and decrease in equity ratio caused by the redemption of loans, the underlying asset.

<sup>(\*3)</sup> Excluded from the consolidation due to loss of controlling power over the entities by selling the securities.

## 2.1.2 Eugene Separate Taxation High-Yield PEF No.2 and other entities

Eugene Separate Taxation High Yield Private Equity Fund No. 2 and other entities are the collective investment vehicles that invest more than a certain percentage of funds in bonds including bonds with ratings of BBB+ or under in accordance with the related laws and regulations.

The acquisition dates and the ownership of the Group are as follows:

Subsidiaries	Acquisition date	Ownership (%)
Eugene Separate Taxation High-Yield PE No.2	May 28, 2014	100.00
Eugene Separate Taxation High-Yield PE No.7	March 2, 2015	90.45
Kiwoom Separate Taxation High-Yield Private Investment Trust No.2	October 24, 2014	69.33
Daishin Separate Taxation High-Yield Private Investment Trust No.2	October 27, 2014	67.21
Sparx Separate Taxation High-Yield Private Investment Trust No.1	December 2, 2015	99.21

#### 2.1.3 Capstone Private MBS Real Estate Investment Trust No.2 and No.3

Capstone Private Equity MBS Real Estate Investment Trust No.2 and No.3 are the collective investment vehicles that invest more than 50% of funds in mortgage backed securities (MBS). The acquisition dates and the ownership of the Group are as follows.

Subsidiaries	Acquisition date	Ownership (%)
Capstone Private MBS Real Estate Investment	June 20, 2014	100.00
Trust No.2		
Capstone Private MBS Real Estate Investment	November 18, 2014	100.00
Trust No.3		

#### 2.1.4 Smart-S 6th Securitization Specialty Co., Ltd. and other entities

The entities specializing in securitization engage in the issuance and redemption of asset backed securities through the transfer, management, operation and disposition of non-performing loans under the laws of asset securitization. The Group is a shareholder with the right of residuary estate and owns all asset backed securities issued by the entities.

## 2.1.5 Meritz Securitization Specialty Co., Ltd.

Meritz Securitization Specialty Co., Ltd. was established to securitize the finance lease asset and the Group is a shareholder with the right of residuary estate and owns all asset backed securities issued by the Group.

# 2.1.6 M Square Sungsu 1st other structured entities

Structured entities enter into secured loan commitment contracts with the Group and they operate mortgage loans through funding from issuing ABCP.

## 2.1.7 G New Jump Short-Term Bond Investment Trust No.1

It is a collective investment vehicle established on May 19, 1998, and has invested in corporate bonds.

During the Korean currency crisis, IM Investment & Securities Co., Ltd. repurchased the collective investment securities issued by the trust from the beneficiaries owing to the insolvency of bonds and the Group owns 100% shares of it.

## 2.1.8 RREEF SPEZIAL INVEST GmbH trust of securities contract

The Group consigned government and public bonds to NH Bank for 5 years from June 2, 2015 to provide as collateral, and designated first-party beneficiary as the secured party.

# 2.2 The summary of financial information in its consolidated subsidiaries as of December 31, 2016 and 2015 is as follows (Korean won in thousands):

	December 31, 2016						
Investee	Assets	Assets Liabilities Operating income 1		Net income (loss)			
China Asia Investment &							
Consulting Ltd.	₩ -	₩ -	₩ 48,564	₩ 27,907			
G New Jump Short-Term Bond							
Investment Trust No.1	457,852	5	13,567	13,478			
RREEF SPEZIAL INVEST							
GmbH trust of securities	1,939,647	-	59,443	32,661			
contract							
Eugene Separate Taxation							
High-Yield PEF No.2	11,566,829	4,496	953,563	763,148			
Eugene Separate Taxation							
High-Yield PEF No.7	54,212,625	77,574	3,265,809	2,220,999			
Eugene Separate Taxation							
High-Yield PEF No.1	-	-	2,235,826	1,398,891			
Kiwoom Separate Taxation							
High-Yield Private							
Investment Trust No. 2	66,470,986	50,580	3,405,359	2,192,326			
Daishin Separate Taxation							
High-Yield Private							
Investment Trust No. 2	43,238,958	30,906	2,521,199	1,774,517			
Sparx Separate Taxation High-							
Yield Private Investment							
Trust No.1	26,385,994	8,849	1,636,766	973,740			
Capstone Private MBS							
Real Estate Investment Trust	0.000.400	207.247	440.04=	222 422			
No. 2	3,209,198	207,245	440,045	280,408			
Capstone Private MBS							
Real Estate Investment Trust	<b>5</b> 0 10 000	005.407	707.070	500 704			
No. 3	5,342,638	235,197	727,878	538,724			
Smart-S 6th Securitization	050.000	F 400 000	0.4	(44.000)			
Specialty Co., Ltd.	258,683	5,166,388	34	(41,300)			
Smart-S 8th Securitization	40.000	7 740 474	400 405	(70.470)			
Specialty Co., Ltd. Smart-S 10th Securitization	10,988	7,716,474	100,135	(72,176)			
	1 160 007	2 074 224	604 224	245 574			
Specialty Co., Ltd.	1,160,987	2,874,334	624,331	245,574			
Meritz Securitization Specialty Co., Ltd. (*)	927 460						
M Square Seongsoo 1st and	827,468	-	-	-			
other structured entities	2,294,671,288	2,309,578,516	110,167,269	(6,180,121)			
other structured entitles	2,294,011,200	2,309,570,510	110,107,209	(0, 100, 121)			

# 2.2 The summary of financial information in its consolidated subsidiaries as of December 31, 2016 and 2015 is as follows (Korean won in thousands): (cont'd)

	December 31, 2015							
Investee	Assets			Liabilities	Operating income		Net income (loss)	
China Asia Investment &								
Consulting Ltd.	₩	208,094	₩	4,835	₩	-	₩ (43	3,837)
G New Jump Short-Term Bond							•	•
Investment Trust No.1		959,588		14	35,	336	3	5,227
RREEF SPEZIAL INVEST					·			•
GmbH trust of securities		1,895,960		-	10,	495	10	0,495
contract								
Gold digger equity MMT	į	55,974,625		-	16,	625	16	6,625
Eugene Separate Taxation		, ,			•			•
High-Yield PEF No.2		12,207,796		4,642	7,869,	678	7,193	3,632
Eugene Separate Taxation		, ,		,			,	•
High-Yield PEF No.7	4	49,248,169		49,299	2,573,	516	1,43	7,125
Eugene Separate Taxation		, ,		,	, ,		,	•
High-Yield PEF No.1	;	39,860,057		9,065	12,011,	547	10,883	3,989
Kiwoom Separate Taxation		, ,		,	, ,		,	,
High-Yield Private								
Investment Trust No. 2	į	54,788,581		35,493	7,565,	839	6.10	5,648
Daishin Separate Taxation		, ,		,	, ,		,	,
High-Yield Private								
Investment Trust No. 2	4	41,676,596		25,712	11,980,	434	10,734	4.392
Sparx Separate Taxation High-		, ,		- ,	, ,		-, -	,
Yield Private Investment								
Trust No.1	2	21,094,052		7,075	94.	052	86	6,977
Capstone Private MBS		, ,		,	- ,			-,-
Real Estate Investment Trust								
No. 2		3,189,533		182,685	4,000,	219	3.828	8,197
Capstone Private MBS		-,,		, , , , , ,	, ,		-,-	-, -
Real Estate Investment Trust								
No. 3		5,310,144		301,604	4,252,	355	4.08	5,804
Smart-S 6th Securitization		-,,			-,,		,,,,,	-,
Specialty Co., Ltd.		2,912,299		7,778,704	2.	637	(89	5,387)
Smart-S 8th Securitization		,- ,		, -, -	,		(	-,,
Specialty Co., Ltd.		16,503		7,649,813	744,	523	(1.15)	0,091)
Smart-S 10th Securitization		,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,		(1,10	-,,
Specialty Co., Ltd.		1,188,620		3,147,541	2,499,	775	1.138	8,052
Meritz Securitization Specialty		,,,,,,,,		2, 11, 12, 11	_,,		,,,,,	-,
Co., Ltd. (*)		880,828		_	22.	180	1.	1,533
M Square Seongsoo 1st and		,			,	- •	•	,
other structured entities	1,67	70,599,681		1,685,093,358	69,625,	543	(5,29)	1,875)

<sup>(\*)</sup> Financial information of Meritz Securitization Specialty Co., Ltd. is the amounts of its financial statements withdrawn its finance leases securitization.

## 3. Unconsolidated structured entities

# 3.1 Details of the nature of the Group's interests in unconsolidated structured entities as of December 31, 2015 are as follows:

	Purposes	Financing method	Controlling type
Asset-Backed Security SPC	Securitization of assets	Issuance of ABS /ABCP secured underlying assets	Purchase commitment, etc.
Real estate finance	Develop real estate and invest in social overhead capital facilities	Loan commitment, credit line commitment	Loan commitment, credit line commitment
Shipping finance and acceptance finance	Financing to acquire vessels and to raise fund for acquisition the ownership	Investment and borrowing	Loan commitment
Investment fund and trust	Investment in securities, etc.	Sales of beneficiary certificates, investment by general partners and limited partners	Holding beneficiary certificates, investment

# 3.2 Details of the Group's maximum exposure to loss from its interests in unconsolidated structured entities as of December 31, 2016 are as follows (Korean won in thousands):

	Special purpose company		Real estate finance		Investment fund and trust	
Total assets of unconsolidated structured entities	₩	396,225,647	₩	413,657,505	₩	1,516,811,862
Assets:						
Loans receivable Securities		17,153,949 33,329,139		107,158,051 -		59,905,448 302,230,030
	₩	50,483,088	₩	107,158,051	₩	362,135,478
Liabilities: Deposits		-		4,933,665		_
- F	₩	-	₩	4,933,665	₩	-
Maximum exposure to loss: Holding assets ABCP		50,483,088		107,158,051		362,135,478
purchase commitment Unexecuted		263,800,000		-		-
credit line commitment  Mortgage loan commitment		1,000,000		102,930,000 178,109,000		- -
	₩	315,283,088	₩	388,197,051	₩	362,135,478

## 4. Summary of significant accounting policies

#### 4.1 Basis of preparation

The Group prepares statutory financial statements in the Korean language in accordance with Korean International Financial Reporting Standards (KIFRS) enacted by the *Act on External Audit of Stock Companies*. The accompanying consolidated financial statements have been translated into English from the Korean language financial statements. In the event of any differences in interpreting the financial statements or the independent auditors' report thereon, the Korean version, which is used for regulatory reporting purposes, shall prevail.

Significant accounting policies used to prepare the consolidated financial statements are as follows. These policies are equally applied to the consolidated financial statements for the years ended December 31, 2016 and 2015 except for standards which are effective for the annual periods beginning on or after January 1, 2016.

# Amendments to KIFRS 1111 Joint Arrangements: Accounting for Acquisitions of Interests

The amendments to KIFRS 1111 require that a joint operator accounting for the acquisition of an interest in a joint operation, in which the activity of the joint operation constitutes a business, must apply the relevant KIFRS 1103 principles for business combinations accounting. The amendments also clarify that a previously held interest in a joint operation is not remeasured on the acquisition of an additional interest in the same joint operation while joint control is retained. In addition, a scope exclusion has been added to KIFRS 1111 to specify that the amendments do not apply when the parties sharing joint control, including the reporting entity, are under common control of the same ultimate controlling party. The amendments apply to both the acquisition of the initial interest in a joint operation and the acquisition of any additional interests in the same joint operation and do not have any impact on the Group's financial statements.

# Amendments to KIFRS 1016 and KIFRS 1038: Clarification of Acceptable Methods of Depreciation and Amortization

The amendments clarify the principle in KIFRS 1016 and KIFRS 1038 that revenue reflects a pattern of economic benefits that are generated from operating a business (of which the asset is part) rather than the economic benefits that are consumed through use of the asset. As a result, a revenue-based method cannot be used to depreciate property, plant and equipment and may only be used in very limited circumstances to amortize intangible assets. These amendments do not have any impact on the Group given that the Group has not used a revenue-based method to depreciate its non-current assets.

# Amendments to KIFRS 1110 and KIFRS 1028: Sale or Contribution of Assets between an Investor and its Associate or Joint Venture

The amendments address the conflict between KIFRS 1110 and KIFRS 1028 in dealing with the loss of control of a subsidiary that is sold or contributed to an associate or joint venture. The amendments clarify that the gain or loss resulting from the sale or contribution of assets that constitute a business, as defined in KIFRS 1103, between an investor and its associate or joint venture, is recognized in full. Any gain or loss resulting from the sale or contribution of assets that do not constitute a business, however, is recognized only to the extent of unrelated investors' interests in the associate or joint venture. These amendments do not have any impact on the Group's financial statements.

#### Amendments to KIFRS 1001 Disclosure Initiative

The amendments to KIFRS 1001 *Presentation of Financial Statements* clarify, rather than significantly change, existing KIFRS 1001 requirements. The amendments clarify:

- Ø The materiality requirements in KIFRS 1001
- Ø That specific line items in the statement(s) of profit or loss and OCI and the statement of financial position may be disaggregated
- Ø That entities have flexibility as to the order in which they present the notes to financial statements
- Ø That the share of OCI of associates and joint ventures accounted for using the equity method must be presented in aggregate as a single line item, and classified between those items that will or will not be subsequently reclassified to profit or loss

#### 4.1 Basis of preparation (cont'd)

Furthermore, the amendments clarify the requirements that apply when additional subtotals are presented in the statement of financial position and the statement(s) of profit or loss and OCI. These amendments do not have any impact on the Group's financial statements.

# Amendments to KIFRS 1110, KIFRS 1112 and KIFRS 1028 Investment Entities: Applying the Consolidation Exception

The amendments address issues that have arisen in applying the investment entities exception under KIFRS 1110. The amendments to KIFRS 1110 clarify that the exemption from presenting consolidated financial statements applies to a parent entity that is a subsidiary of an investment entity, when the investment entity measures all of its subsidiaries at fair value.

Furthermore, the amendments to KIFRS 1110 clarify that only a subsidiary of an investment entity that is not an investment entity itself and that provides support services to the investment entity is consolidated. All other subsidiaries of an investment entity are measured at fair value. The amendments to KIFRS 1028 allow the investor, when applying the equity method, to retain the fair value measurement applied by the investment entity associate or joint venture to its interests in subsidiaries. These amendments do not have any impact on the Group's financial statements.

The Group has not early adopted any other standard, interpretation, or amendment that has been issued but is not yet effective.

Management of the Group is using many assumptions and reasonable estimates to create the consolidated financial statements on the basis of KIFRS. In applying the accounting policies of the Group, the management's judgment is required under KIFRS. Parts that require significant judgments and complexity or parts of which estimations and assumptions have significant impact on the preparation of the consolidated financial statements are disclosed in footnote 5.

## 4.2 New and amended standards and interpretations

The standards and interpretations that are issued, but not yet effective, up to the date of issuance of the Group's financial statements are disclosed below.

## KIFRS 1109 Financial Instruments

KIFRS 1109, enacted on September 25, 2015, is effective for annual periods beginning on or after January 1, 2018, with early application permitted. KIFRS 1109 will replace KIFRS 1039 Financial Instruments: Recognition and Measurement. The Group plans to apply KIFRS 1109 for annual periods beginning on or after January 1, 2018.

The new KIFRS 1109 is retrospectively applied in principle, but there are some exceptions such as exemption of restatement of comparative information for classification, measurement, impairment of financial instruments. For hedge accounting, the requirements are generally applied prospectively, with some exceptions such as accounting for time value of options.

Major characteristics of KIFRS 1109 are financial assets being classified and measured on the basis of the holder's business model and instrument's contractual cash flow characteristics, impairment model of financial instruments based on expected credit losses (ECL), broader range of hedged items and hedging instruments that qualify for the application of hedge accounting or changes in evaluation of hedging effectiveness etc.

For smooth adoption of KIFRS 1109, financial impact analysis, accounting policies establishment, accounting system establishment and stabilization need to take place. The impact of the standards on the financial statements in the period they are initially adopted may differ depending on the Group's decisions and judgments of accounting policies as well as the financial instruments held by the Group, economic environment, etc.

## 4.2 New and amended standards and interpretations (cont'd)

The Group formed the IFRS9 task force team for the adoption of IFRS 1109 starting from October 2016. The process is divided into three stages: stage 1 (impact analysis and establishment of accounting policies), stage 2 (design and build), and stage 3 (application of KIFRS 1039 and KIFRS 1109 at the same time). The Group is in the process of analyzing the financial impact on its financial statements if the standard is applied. However, the general impacts on the financial statements are as follows.

#### Financial asset classification and measurement

The new KIFRS 1109 requires a financial instrument to be classified and measured subsequently at amortized cost, fair value through other comprehensive income (FVOCI), or fair value through profit or loss (FVTPL), on the basis of the holder's business model and instrument's contractual cash flow characteristics as shown below. The requirements should be applied to an entire financial asset, even if it contains an embedded derivative. That is, in contrast with the requirements of KIFRS 1039, a derivative embedded within a hybrid (combined) contract containing a financial asset host is not accounted for separately.

Business model / Contractual cash flow characteristics	Composed solely of principal and interest	For other cases
Purpose of collecting contractual cash flows	Measured at amortized cost (*1)	
Purpose of collecting and selling contractual		Measured
cash flows	Measured at FVOCI (*2)	at FVTPL (*2)
Purpose of selling, others	Measured at FVTPL	

- (\*1) can be designated at FVTPL in order to get rid of or reduce accounting mismatch (cannot cancel)
- (\*2) can be designated at FVOCI in case of equity securities not for held-for-trading purposes (cannot cancel)

The Group holds  $\mbox{$W7,069,026$}$  million of loans and receivables,  $\mbox{$W1,574,562$}$  million of available-for-sale financial assets, and  $\mbox{$W8,051,295$}$  million of financial assets at FVTPL as of December 31, 2016. (refer to Note 43)

In accordance to KIFRS 1109, a debt instrument that meets the following two conditions must be measured at amortized cost: 1) the contractual terms of the financial asset give rise on specified dates to cash flows that are solely payments of principal and interest on the principal amount outstanding, and 2) the objective of the entity's business model is to hold the financial asset to collect the contractual cash flows. The Group measures \(\psi\_7,069,026\) million of loans and receivables as of December 31, 2016 at amortized costs.

In accordance with KIFRS 1109, a debt instrument that meets the following two conditions must be measured at FVOCI: 1) the contractual terms of the financial asset give rise on specified dates to cash flows that are solely payments of principal and interest on the principal amount outstanding, and 2) the financial asset is held within a business model whose objective is achieved by both collecting contractual cash flows and selling financial assets. The Group holds \(\pi\1,223,771\) million of debt instruments classified as available-for-sale financial assets as of December 31, 2016. Debt instruments, the host contract after separating embedded derivatives from combined (hybrid) financial instruments, included in available-for-sale financial assets and loans and receivables are \(\pi\140,485\) million and \(\pi\9,325\) million, respectively.

In accordance with KIFRS 1109, if an equity instrument is not held for trading, an entity can make an irrevocable election at initial recognition to measure it at FVOCI, and subsequent recycling from comprehensive income to profit or loss is not permitted. The Group holds \(\pm\) 244,490 million of equity instruments classified as available-for-sale financial assets as of December 31, 2016.

In accordance with KIFRS 1109, a debt instrument of which: 1) the contractual terms of the financial asset give rise to cash flows that are not solely payments of principal and interest on the principal amount outstanding, and 2) the financial asset is held within a business model whose objective is achieved by selling financial assets, and equity instruments that are not measured at FVOCI, are measured at FVTPL. The Group's debt instruments and equity instruments classified as financial assets at FVTPL as of December 31, 2016 are \(\psi 7,184,305\) million and \(\psi 246,257\) million, respectively.

## 4.2 New and amended standards and interpretations (cont'd)

#### Financial liabilities classification and measurement

In KIFRS 1109, fair value changes of financial liabilities at FVTPL attributable to changes in credit risk of the liability shall be presented in other comprehensive income, not in profit or loss. Amounts presented in other comprehensive income shall not be subsequently recycled to profit or loss. However, the new standard allows the recognition of the full amount of change in the fair value in profit or loss only if the presentation of the changes in the liability's credit risk in other comprehensive income would create or enlarge an accounting mismatch in profit or loss.

4.2 New and amended standards and interpretations (cont'd)

The Group designated ₩ 654,430 million out of ₩ 15,166,450 million of financial liabilities at FVTPL as of December 31, 2016 and recognized ₩7,486 million of evaluation losses related to financial liabilities at FVTPL as current profit and loss for the year ended December 31, 2016.

#### Impairment: financial assets and contract assets

In KIFRS 1039, impairment is recognized only when there is objective evidence of impairment based on incurred loss model. In the new KIFRS 1109, impairment of debt instruments, lease bonds, contract assets, loan commitments and financial guarantee contracts that are measured at amortized costs or at FVOCI is recognized based on the expected credit loss (ECL) impairment model.

KIFRS 1109 outlines a 'three-stage' model for impairment based on changes in credit risk since initial recognition. Loss allowance is measured based on the 12-month ECL or life-time ECL which allows early recognition of credit loss compared to the incurred loss model of KIFRS 1039.

	Classification	Loss allowance		
Stage 1	Assets with no significant increase in credit risk since initial recognition (*1)	12-month ECL: Expected credit losses that result from default events that are possible within 12 months after the reporting date.		
Stage 2	Assets with significant increase in credit risk since initial recognition	Lifetime ECL: Expected credit losses that result from all possible default events over the expected		
Stage 3	Credit-impaired assets	life of the financial instrument.		

<sup>(\*1)</sup> Low credit risk at the end of reporting period may be considered as no significant increase in credit risk

In KIFRS 1109, accumulated changes in the life-time ECL after initial recognition are taken into account as loss allowance in case credit is impaired at initial recognition of financial assets.

The Group has debt instruments measured at FVOCI for  $\mbox{$\mbox{$\mu$}$}$  1,223,771 million classified as available-for-sale financial assets, debt instruments for  $\mbox{$\mbox{$\mu$}$}$  7,069,026 million (loans and receivables) measured at amortized cost, and loss allowance for loans and receivables for  $\mbox{$\mu$}$  77,602 million as of December 31, 2016. The contractual outstanding balance for the Group is  $\mbox{$\mu$}$  2,967,962 million as of December 31, 2016. (refer to Note 39-3).

#### Hedge accounting

The new KIFRS 1109 maintains mechanics of hedge accounting (fair value hedge, cash flow hedge, overseas operations net investment hedge) as set forth in KIFRS 1039. However, unlike requirements in KIFRS 1039 that are too complex and strict, KIFRS 1109 is more practical, principle based and less strict and focuses on the entity's risk management activities. Also, KIFRS 1109 allows broader range of hedged items and hedging instruments. Under KIFRS 1039, a hedge is assessed to be highly effective only if the offset is in the range of 80-125 percentage by performing numerical test of effectiveness. In KIFRS 1109, such requirements are alleviated.

#### KIFRS 1115 Revenue from Contracts with Customers

KIFRS 1115 establishes a five-step model to account for revenue arising from contracts with customers. Under KIFRS 1115, revenue is recognized at an amount that reflects the consideration to which an entity expects to be entitled in exchange for transferring goods or services to a customer. The new revenue standard will supersede all current revenue recognition requirements under KIFRS. Either a full retrospective application or a modified retrospective application is required for annual periods beginning on or after January 1, 2018. Early adoption is permitted. These amendments are not expected to have impact on the Group's financial statements.

#### 4.3 Principles of consolidation

#### 4.3.1 Subsidiaries

Subsidiaries are fully consolidated from the date on which control is transferred to the Group. Subsidiaries are no longer consolidated from the date on which the Group loses control over them. Control is achieved where the Group has the power to govern the financial and operating policies of an entity so as to obtain the benefits from its activities. The Group consolidates special purpose entities if the substance of its relationship with them indicates that it has control over them. The Group considers the existence and influence of exercisable or convertible voting rights when evaluating its subsidiaries.

All significant intercompany transactions and account balances among consolidated companies are eliminated on consolidation. Unrealized gains or losses included in loans and borrowings arising from transactions between consolidated companies are eliminated on consolidation. The related accounts receivable and payable are also eliminated on consolidation. The accounting Policies of subsidiaries can be revised on consolidation in consistency policies the Group has adopted.

## 4.3.2 Non-controlling interests

Non-controlling interests must be presented in the consolidated statement of financial position within equity, separate from the equity of the owners of the parent. Total comprehensive income must be attributed to the owners of the parent and to the non-controlling interests even if this results in the non-controlling interests having a deficit balance.

Some putable financial instruments or some financial instruments that impose on the entity an obligation to deliver to another party a pro rata share of the net assets of the entity only on liquidation are not accounted as the residual equity in consolidated financial statements, therefore, those non-controlling interests are classified as financial liabilities in the consolidated financial statement.

#### 4.3.3 Investment in an associate

Associates are the entities that the Group has significant effect on, but has no controlling power and the Group generally owned its equity in 20~50% of their shares with voting rights by the Group. The Group's consolidated financial statements reflects investment in an associate in using the equity method and the amount of Investment in an associate include goodwill which is acquisition cost less any accumulated impairment losses.

After acquiring shares of an associate, the Group's share of the current income (loss) of the associate is recognized as current income (loss) of the Group, and the Group's share of changes in the retained earnings of the associate is recognized as the retained earnings of the Group. If the Group's share of the loss of the associate is the same as or above the Group's investment interest including other plain bond of the associate, the Group no longer recognizes a loss unless the Group is liable for paying or has to pay the associate's debt.

When signs of damage are not aroused, the Group's share in the investee's unrealized profits and losses resulting from transactions between the Group and its investee are eliminated to the extent of the interest in the investee. And when necessary, adjustments are made to the financial statements of associates to bring their accounting policies in line with those used by the Group.

## 4.4 Operating segment reporting

Operating segments are disclosed in a manner consistent with the internal reporting provided to the chief operating decision maker. The chief operating decision maker is responsible for allocating resources and assessing the performance of the operating segments.

## 4.5 Foreign exchange

#### 4.5.1 Functional currency

When preparing for the consolidated financial statements, the Group measures and recognizes all the transactions according to the functional currency, used to conduct operating activities in the primary economic environment. Consolidated Financial statements are expressed in Korean won.

## 4.5.2 Translation of foreign currency transactions and balances at the end of the reporting period

Transactions in foreign currencies are initially recorded at the functional currency rate of exchange prevailing at the date of the transaction. Monetary assets and liabilities denominated in foreign currencies are retranslated at the functional currency rate of exchange prevailing at the reporting date and its exchange differences are recognized in net income for the period in which they arise. The Group applies a year-end exchange rate to non-monetary assets and liabilities measured at fair value in the consolidated statements of financial position. If valuation gain or loss on fair value is recognized as current income, foreign currency translation gain or loss is recognized in current income. If valuation gain or loss on non-monetary items is recognized in other comprehensive income, foreign currency translation gain or loss is recognized in other comprehensive income. Non-monetary items not measured at fair value are translated using the exchange rates as at the date of the initial transaction and have no exchange differences.

Exchange differences on monetary items receivable from or payable to a foreign operation for which settlement is neither planned nor likely to occur in the predictable future (therefore forming part of the net investment in the foreign operation), are recognized initially in other comprehensive income and reclassified from equity to net income on disposal or partial disposal of the net investment.

## 4.5.3 Translation of the Group's foreign operation

As at the reporting date, the assets and liabilities of subsidiaries and overseas branches are translated into the Group's presentation currency, Korean won (KRW), at the rate of exchange as at the reporting date, and their statements of comprehensive income are translated at the weighted average exchange rates for the year. Exchange differences arising on translation are taken directly to a separate component of equity.

#### 4.6 Cash and cash equivalents

Cash and short-term deposits in the statement of financial position comprise cash at banks and on hand and short-term deposits with an original maturity of three months or less.

#### 4.7 Financial assets

Financial assets within the scope of KIFRS 1039 *Financial Instruments: Recognition and Measurement* are classified as financial assets designated at fair value through profit or loss, available-for-sale financial assets, held-to-maturity investments, loans and receivables, as appropriate. The Group determines the classification of its financial assets at initial recognition.

## 4.7.1 Financial assets at fair value through profit or loss

Financial assets at fair value through profit or loss include financial assets held for trading and financial assets designated at fair value through profit or loss upon initial recognition. Financial assets are classified as held for trading if they are acquired for the purpose of selling or repurchasing in the short-term. Derivatives, including separated embedded derivatives are also classified as held for trading unless they are designated as effective hedging instruments as defined by KIFRS 1039. Financial assets at fair value through profit or loss are carried in the statement of financial position at fair value with changes in fair value recognized in finance income or finance cost in the statement of comprehensive income. The Group designated DLS, separate deposit from investors and some other financial assets as financial assets at FVTPL.

#### 4.7.2 Available-for-sale financial assets

Available-for-sale financial assets are non-derivative financial assets designated at available-for-sale item, and are not classified as loans and receivables, held-to-maturity financial assets or financial assets designated at fair value through profit or loss. They are measured at fair value and their valuation gains and losses are recognized in equity as other comprehensive income. The equity securities, whose active market values are not available and fair values cannot be reliably measured, are valued at acquisition cost. Accumulated other comprehensive income previously recognized in equity is recognized in the statement of comprehensive income when the investment is disposed of or impairment loss for the investment is recognized. Dividends earned whilst holding available-for-sale financial assets are recognized in the statement of comprehensive income when the right of the payment has been established.

## 4.7.3 Held-to-maturity financial assets

Non-derivative financial assets with fixed or determinable payments and fixed maturities are classified as held-to maturity when the Group has the positive intention and ability to hold them to maturity. After initial measurement, held-to-maturity investments are measured at amortized cost using the effective interest method, less impairment. Amortized cost is calculated by taking into account any discount or premium on acquisition and fees or costs that are an integral part of the effective interest rate method ("EIR"). The EIR amortization is included in finance income in the statement of comprehensive income. The losses arising from impairment are recognized in finance costs in the statement of comprehensive income. There is no held-to-maturity assets as of December 31, 2016 and 2015.

#### 4.7.4 Loans and receivables

Loans and receivables are non-derivative financial assets with fixed or determinable payments that are not quoted in an active market. After initial measurement, such financial assets are subsequently measured at amortized cost using the EIR, less allowance for possible loan losses. Amortized cost is calculated by taking into account any discount or premium on acquisition and fees or costs that are an integral part of the EIR. The EIR amortization is included in finance income in the statements of comprehensive income.

## 4.8 Regular way trades

Equity securities, debt securities, derivatives, which are traded in the KRX or qualified foreign exchange markets, are treated as regular way trades. The Group's specific accounting policies about regular way trades are described below.

# 4.8.1 Proprietary trading

As for proprietary trading, purchase or sale of the asset that require delivery of assets within a time frame established by regulation or convention in the marketplace are recognized or derecognized on the trading date.

#### 4.8.2 Trading on consignment

As for trading on consignment, the Group serves a clientele of investors who trade public stocks and other securities and recognizes the brokerage fees on the trading date. Until the settlement date of the trading on consignment, the Group does not offset the receivables and payables to customers and offsets the receivables and payables to the KRX.

## 4.9 Derecognition of financial assets

A financial asset (or, where applicable a part of a financial asset or part of the Group of similar financial assets) is derecognized when:

- Ø The rights to receive cash flows from the asset have expired.
- Ø The Group has transferred its rights to receive cash flows from the asset or has assumed an obligation to pay the received cash flows in full without material delay to a third party under a 'pass-through' arrangement; and either (a) the Group has transferred substantially all the risks and rewards of the asset, or (b) the Group has neither transferred nor retained substantially all the risks and rewards of the asset, but has transferred control of the asset.

When the Group has transferred its rights to receive cash flows from an asset or has entered into a passthrough arrangement, it evaluates if and to what extent it has retained the risks and rewards of ownership. When it has neither transferred nor retained substantially all of the risks and rewards of the asset, nor transferred control of the asset, the Group continues to recognize the transferred asset to the extent of the Group's continuing involvement. In that case, the Group also recognizes an associated liability. The transferred asset and the associated liability are measured on a basis that reflects the rights and obligations that the Group has retained.

## 4.10 Impairment of financial assets

The Group assesses at the end of each reporting period whether there is any objective evidence that a financial asset or group of financial assets is impaired. A significant or prolonged decline in the fair value of an investment in available-for-sale financial assets below its cost is also objective evidence of impairment. If any such evidence exists in the available-for-sale financial assets, the amount of the cumulative loss that is the difference between the acquisition cost and current fair value deducted the impairment loss on that financial asset previously recognized in profit or loss is recognized in the statement of comprehensive income. Impairment losses recognized in profit or loss for an investment in an equity instrument classified as available for sale are not reversed through profit or loss.

Furthermore, the losses on loans and receivables are identified as gains and losses for the current term using allowance for the account and if the objective evidence of the impairment exists, they are measured as the present value on future cash flow.

## 4.11 Derivative financial instruments and hedge accounting

Derivatives instruments are initially recognized at fair value on the contract date and are subsequently revalued at their fair value. Derivative instruments are accounted differently depending on whether hedge accounting is applied, and therefore, are classified into trading purpose derivatives and hedging purpose derivatives. In a hedge relationship, when a hedge item is any asset, liability or unrecognized fixed contract, which is exposed at the possibility that its some or entire fair value is fluctuated by the specified risks, fair value hedge accounting is applied. In another way, when a hedge item is any asset, liability or expected highly probable transaction, which is exposed at the possibility that its cash flow is fluctuated by the specified risk, cash flow hedge accounting is applied. For trading purpose derivative transaction, changes in the fair value of derivatives are recognized in net income.

At the inception of the hedge relationship, the Group formally documents the relationship between the hedged item and the hedging instrument, including the nature of the risk, the objective and strategy for undertaking the hedge and the method that will be used to assess the effectiveness of the hedging relationship. Also, at the inception of the hedge relationship, a formal assessment is undertaken to ensure that the hedging instrument is expected to be highly effective in offsetting the designated risk in the hedged item and the actual result.

#### 4.11.1 Fair value hedges

The change in the fair value of an interest rate hedging derivative is recognized in finance costs in the statement of comprehensive income. The change in the fair value of the hedged item attributable to the risk hedged is recorded as a part of the carrying value of the hedged item and is also recognized in finance costs in the statement of comprehensive income.

For fair value hedges relating to items carried at amortized cost, any adjustment to carrying value is amortized through the statement of comprehensive income over the remaining term up to maturity. Effective interest rate amortization may begin as soon as an adjustment exists and shall begin no later than when the hedged item ceases to be adjusted for changes in its fair value attributable to the risk being hedged.

When an unrecognized firm commitment is designated as a hedged item, the subsequent cumulative change in the fair value of the firm commitment attributable to the hedged risk is recognized as an asset or liability with a corresponding gain or loss recognized in the statement of comprehensive income.

#### 4.11.2 Cash flow hedges

The effective portion of the gain or loss on the hedging instrument is recognized directly as other comprehensive income in the cash flow hedge reserve, while any ineffective portion is recognized immediately in finance costs in the statement of comprehensive income.

Amounts recognized as other comprehensive income are transferred to the statement of comprehensive income when the hedged transaction affects profit or loss, such as when the hedged financial income or financial expense is recognized or when a forecast sale occurs. When the hedged item is the cost of a non-financial asset or non-financial liability, the amounts recognized as other comprehensive income are transferred to the initial carrying amount of the nonfinancial asset or liability.

If the forecast transaction or firm commitment is no longer expected to occur, the cumulative gain or loss previously recognized in equity are transferred to the statement of comprehensive income. If the hedging instrument expires or is sold, terminated or exercised without replacement or rollover, or if its designation as a hedge is revoked, any cumulative gain or loss previously recognized in other comprehensive income remains in other comprehensive income until the forecast transaction or firm commitment affects profit or loss.

#### 4.11.3 Embedded derivatives

Derivatives embedded in other financial instruments or other host contracts are treated as separate derivatives. When their risks and characteristics are not closely related to those of the host contracts and the host contracts are not measured by fair value through profit or loss.

#### 4.12 'Day 1' profit or loss recognition

When the transaction price is different from the fair value of other observable current market transactions in the same instrument or based on a valuation technique whose variables include only data from observable markets, the Group immediately recognizes the differences between the transaction price and fair value (a 'Day 1' profit or loss) in 'net trading income'.

In case where fair value is determined using data which is not observable, the difference between the transaction price and model value is deferred and amortized over the life of the associated instrument using the straight-line method.

## 4.13 Interest income and interest expense

The Group recognizes interest income and interest expense using the effective interest rate method on an accrual basis. When a financial instrument bearing interest is impaired, the Group reduces the carrying amount to its recoverable amount, being the estimated future cash flows discounted at its original effective interest rate of the instrument, and continues unwinding the discount as interest income.

#### 4.14 Fees and commission income

The Group earns fees and commission income from a diverse range of services it provides to its customers. Fees and commissions income from financial services are accounted for based on the related accounting standards of financial instruments and the purpose of such fees and commissions. Fees and commissions income are accounted for as follows:

- Ø Fees earned for the provision of services over a period of time are accrued over that period using the straight line method.
- Ø Fees arising from providing significant transaction services for a third party are recognized on completion of the transaction services.
- Ø Fees which are regarded as the part of the interest of financial instruments are recognized using the EIR.

#### 4.15 Dividend income

Dividend income is recognized when the Group's right to receive the payment is established.

# 4.16 Bonds purchased under resale agreements and bonds sold under repurchase agreements

Securities purchased under agreements to resell at a specified future date ("reverse repos") are recorded in the statement of financial position as bonds purchased under repurchase agreements in the other loans. Conversely, securities sold under agreements to repurchase at a specified future date ("repos") are recorded in the statement of financial position as bonds sold under repurchase agreements in the other borrowing liabilities. Interest income and expense incurred from reverse repo and repo transactions are recorded as interest income on loan and interest expense on borrowings, respectively in the statement of comprehensive income.

## 4.17 Property and equipment

Property and equipment is stated at cost including transaction costs, less accumulated depreciation and accumulated impairment in value. Changes in the expected useful life are accounted for by changing the amortization period or method, as appropriate, and treated as changes in accounting estimates.

Depreciation is calculated on a straight-line basis over the estimated useful life of the asset. Land is not depreciated. The estimated useful lives are as follows:

	Years
Buildings	40
Vehicles	4
Furniture and fixtures	4

Property and equipment is derecognized on disposal or when no future economic benefits are expected from its use. Any gain or loss arising on derecognition of the asset (calculated as the difference between the net disposal proceeds and the carrying amount of the asset) is recognized in 'Other operating income' in the statement of comprehensive income in the year the asset is derecognized.

## 4.18 Investment properties

Investment properties are measured initially at cost, including transaction costs. Subsequent to initial recognition, investment properties are measured at depreciated cost.

Investment properties are derecognized when either they have been disposed of or when the investment property is permanently withdrawn from use and no future economic benefit is expected from its disposal. The difference between the net disposal proceeds and the carrying amount of the asset is recognized through profit or loss in the period of derecognition. And transfers are made to or from investment property only when there is a change in use.

## 4.19 Investment properties (cont'd)

Land is not depreciated. The estimated useful lives of buildings are as follows:

	Depreciation		
	method Ye		
Buildings	Straight-line method	40	

#### 4.20 Intangible assets

#### 4.20.1 Software

Software acquired separately are measured on initial recognition at cost. The software with finite lives are carried at cost less any accumulated amortization. Amortization is calculated on a straight-line basis over the estimated useful life of the asset.

## 4.20.2 Intangible assets with indefinite useful lives

Intangible assets with indefinite useful lives are not amortized, but are annually tested for impairment. The assessment of indefinite life is reviewed annually to determine whether the indefinite life continues to be supportable. If not, the change in useful life from indefinite to finite is made on a prospective basis.

## 4.21 Impairment of non-financial assets

The Group assesses at each reporting date whether there is an indication that an asset may be impaired. If indication exists, or when annual impairment testing for an asset is required, the Group estimates the assets recoverable amount. An asset's recoverable amount is the higher of an asset's or cash-generating unit's ("CGU") fair value less costs to sell and its value in use. When the carrying amount of an asset or CGU exceeds its recoverable amount, the asset is considered impaired and is written down to its recoverable amount.

After recognition of the impairment of non-financial assets, if there is a change in the assumptions used to determine the asset's recoverable amount, a previously recognized impairment loss is reversed. The reversal is limited so that the carrying amount of the asset does not exceed its recoverable amount, nor exceeds the carrying amount that would have been determined, net of depreciation, had no impairment loss been recognized for the asset in prior years.

After application of the equity method, the Group determines whether it is necessary to recognize an additional impairment loss on the Group's investment in its associates. The Group determines at each reporting date whether there is any objective evidence that the investment in the associate is impaired. If this is the case the Group calculates the amount of impairment as the difference between the recoverable amount of the associate and its carrying value and recognizes the amount in the statement of comprehensive income.

## **4.22** Lease

The classification of leases is based on the extent to which risks and rewards incidental to ownership of a leased asset lie with the lessor or the lessee.

At the commencement of the lease term, lessees shall recognize finance leases as assets and liabilities in their statements of financial position at amounts equal to the fair value of the leased property or, if lower, the present value of the minimum lease payments, each determined at the inception of the lease. The discount rate to be used in calculating the present value of the minimum lease payments is the interest rate implicit in the lease, if this is practicable to determine; if not, the lessee's incremental borrowing rate shall be used. Any initial direct costs of the lessee are added to the amount recognized as an asset.

# 4.22 Lease (cont'd)

Minimum lease payments shall be apportioned between the finance charge and the reduction of the outstanding liability. The finance charge shall be allocated to each period during the lease term so as to produce a constant periodic rate of interest on the remaining balance of the liability. The depreciation policy for depreciable leased assets shall be consistent with that for depreciable assets that are owned.

Minimum lease payments, excluding guaranteed residual value, under an operating lease shall be recognized as an expense on a straight-line basis over the lease term unless another systematic basis is more representative of the time pattern of the user's benefit. Operating lease assets are depreciated over expected useful lives (3 years ~ 5 years).

#### 4.23 Retirement benefits

## 4.23.1 Defined benefit pension plans

The Group classifies all pension plans under defined benefit pension plans ("DB plan") except for defined contribution pension plan ("DC plan"). The retirement benefit liabilities recognized in the consolidated statements of financial position represents the present value of the defined benefit obligation reduced by the fair value of plan assets.

The cost of providing benefits under the defined benefit plan is determined using the projected unit credit method by an independent actuary. The present value of defined benefit obligation is computed by discounting expected future cash outflows with market rate of return measured against the yield of high-graded corporate bond whose date of payment and maturity is similar to that of a defined benefit obligation. Actuarial gains and losses, incurred from the change in actuarial assumptions and the difference between the assumptions and the actual results, are recognized in other comprehensive income for the period.

If the calculated net value is an asset when the fair value of plan assets is deducted from the present value of defined benefit liabilities, the asset is recognized up to accumulated unrealized past service cost and the present value of an economic benefit available in the form of a refund from the pension plan or a saving of future contributions.

Unrecognized prior service cost, a change in the present value of defined benefit pension plan for employees' past services which is incurred by introduction or changes of severance payment, is immediately recognized in current expense for the period in which it arises.

# 4.23.2 Defined contribution pension plans

As the Group operates a defined contribution pension plans ("DC plan"), the amount of contribution that the Group has to pay is recognized under current expense as employee benefit expense.

#### 4.24 Income tax expenses and deferred tax assets and liabilities

Income taxes comprise of current and deferred taxes. All items related to taxes, other than those recognized directly in equity, are accounted for in the statement of comprehensive income. Accordingly, items recognized directly in equity and the related income taxes are accounted for in the 'Other operating income'.

The tax rates and tax laws used to compute the amount are those that are enacted or substantively enacted by the reporting date. If the applied tax laws require an interpretation, the Group calculates income tax payable expected to be paid to the taxation authorities based on the opinion made when the taxes were reported.

Deferred tax is provided on the temporary differences at the reporting date between the tax bases of assets and liabilities and their carrying amounts for financial reporting purposes. Deferred liabilities are recognized for all taxable temporary differences, except:

## 4.24 Income tax expenses and deferred tax assets and liabilities (cont'd)

When the deferred tax liability arises from the initial recognition of goodwill or of an asset or liability in a transaction that is not a business combination and, at the time of the transaction, affects neither the accounting profit nor taxable profit loss.

In respect of taxable temporary differences associated with investments in subsidiaries, where the timing of the reversal of the temporary differences can be controlled and it is probable that the temporary differences will not reverse in the foreseeable future.

Deferred tax assets and deferred tax liabilities are offset if a legally enforceable right exists to set off current tax assets against current tax liabilities and the deferred taxes relate to the same taxable entity and the same taxation authority.

#### 4.25 Recognition and measurement of financial liabilities

Financial liabilities within the scope of KIFRS 1039 are classified as financial liabilities at fair value through profit or loss, borrowings, or as derivatives designated as hedging instruments in an effective hedge, as appropriate. The Group determines the classification of its financial liabilities at initial recognition.

All financial liabilities are recognized initially at fair value and in the case of loans and borrowings, plus directly attributable transaction costs.

## 4.25.1 Financial liabilities at fair value through profit or loss

Financial liabilities at fair value through profit or loss include financial liabilities held-for-trading and fina ncial liabilities designated upon initial recognition as at fair value through profit or loss. Financial liabilities are classified as held-for-trading if they are acquired for the purpose of selling in the near term. All financial liabilities including an embedded derivative separated from the host contract are reclassified as financial liabilities at fair value through profit or loss except for financial liabilities designated as effective hedging instruments or financial guarantee contracts. After initial recognition, the changes in the fair value of the financial liabilities at fair value through profit or loss and the related interest expenses are recognized as profit or loss. The Group has designated derivative-linked securities sold by the Group as financial liabilities at fair value through profit or loss.

#### 4.25.2 Borrowings and debentures

After initial recognition, interest bearing deposits, borrowings and debentures are subsequently measured at amortized cost using the EIR. Gains and losses are recognized in the statement of comprehensive income when the liabilities are derecognized as well as through the EIR amortization process.

Amortized cost is calculated by taking into account any discount or premium on acquisition and fees or costs that are an integral part of the EIR. The EIR amortization is included in finance cost in the statement of comprehensive income.

## 4.25.3 Derecognition of financial liabilities

A financial liability is derecognized when the obligation under the liability is discharged or cancelled or expired. When an existing financial liability is replaced by another from the same lender on substantially different terms, or the terms of an existing liability are substantially modified, such an exchange or modification is treated as a derecognition of the original liability and the recognition of a new liability, and the difference in the respective carrying amounts is recognized in the statement of comprehensive income. Meanwhile, the group has designated derivatives linked securities sold by the group as financial liabilities at fair value through profit or loss.

#### 4.26 Fair value of financial instruments

Financial assets and financial liabilities traded in active markets at the reporting date are based on their quoted market price or dealer price quotations (bid price for long positions and ask price for short positions), without any deduction for transaction costs.

For all other financial instruments not traded in an active market, the fair value is determined by using appropriate valuation techniques. Valuation techniques include the discounted cash flow method, comparison to similar instruments for which market observable prices exist, options pricing models, credit models and other relevant valuation models. These techniques incorporate the Group's estimate of assumptions that a market participant would make when valuing the instruments. Valuation techniques which provide reliable estimates on mark-to-market prices are applied.

The Group uses the following hierarchy for determining and disclosing the fair value of financial instruments by valuation technique:

- Level 1: Quoted (unadjusted) prices in active markets for similar assets or liabilities.
- Level 2: Other techniques for which all inputs which have a significant effect on the recorded fair value are observable, either directly or indirectly.
- Level 3: Techniques which use inputs which have a significant effect on the recorded fair value that are not based on observable market data.

#### 4.27 Provisions

Provisions are recognized when the Group has a present obligation (legal or constructive) as a result of a past event, it is probable that an outflow of resources embodying economic benefits will be required to settle the obligation and a reliable estimate can be made of the amount of the obligation.

## 4.28 Capital stock

Common stock issued is classified as a capital stock in the statement of financial position and additional stock issuance costs or incremental costs related to the stock issuance are recorded as a deduction from issued capital net of tax effects.

#### 4.29 Dividends

Dividends on common stock are deducted from the Group's equity and recognized as a liability when the shareholders' meeting of the Group approves the dividends.

## 5. Significant judgements and accounting estimates

The preparation of the Group's consolidated financial statements requires the management to make judgments, estimates and assumptions that affect the reported amounts of revenues, expenses, assets and liabilities, and the disclosure of contingent liabilities, at the end of the reporting period. Uncertainty about these assumptions and estimates could result in outcomes that require a material adjustment to the carrying amount of the asset or liability affected in future periods.

In the process of applying the Group's accounting policies, the management has made the following judgments, which have the most significant effect on the amounts recognized in the consolidated financial statements.

#### 5.1 Allowance for possible loan losses

The Group assesses at each reporting date whether there is objective evidence that a loan is impaired. If there is objective evidence that an impairment loss has been incurred, the amount of the loss is measured as the difference between the loan's carrying amount and the present value of estimated future cash flows, which is discounted using the initial effective interest rate. The carrying amount of the asset is reduced through the use of an allowance account and the amount of the loss is recognized in the statement of comprehensive income.

The Group first assesses whether objective evidence of impairment exists for individual loan that is significant (individual assessment). If the Group determines that no objective evidence of impairment exists for an individually assessed loan, the Group includes the loan in a company of loans with similar credit risk characteristics and collectively assesses them for impairment (collective assessment).

When an individual loan is impaired, the amount of the loss is measured as the difference between the carrying amount and the present value of estimated future cash flows (including estimated future cash flows from its collateral). In collective assessments, the amount of the loss is statistically evaluated using the Group's historical loss data.

#### 5.2 Impairment of non-financial assets

Impairment exists when the carrying value of an asset or cash generating unit exceeds its recoverable amount, which is the higher of its fair value less costs to sell and its value in use. The fair value less costs to sell calculation is based on available data from binding sales transactions in an arm's length transaction of similar assets or observable market prices less incremental costs for disposing of the asset. The value in use calculation is based on a discounted cash flow model. The cash flows are derived from the budget for the next five years and do not include restructuring activities that the Group is not yet committed to or significant future investments that will enhance the asset's performance of the cash generating unit being tested. The recoverable amount is most sensitive to the discount rate used for the discounted cash flow model as well as the expected future cash inflows and the growth rate used for extrapolation purposes.

#### 5.3 Income taxes

Uncertainties exist with respect to the interpretation of complex tax regulations and the amount and timing of future taxable income. Given the wide range of international business relationships and the long-term nature and complexity of existing contractual agreements, differences arising between the actual results and the assumptions made, or future changes to such assumptions, could necessitate future adjustments to tax income and expense already recorded. The Group establishes provisions, based on reasonable estimates, for possible consequences of audits by the tax authorities of the respective countries in which it operates. The amount of such provisions is based on various factors, such as experience of previous tax audits and differing interpretations of tax regulations by the taxable entity and the responsible tax authority.

## 5.4 Impairment losses on available-for-sale equity instruments

The Group assesses its equity securities classified as available—for—sale assets at the end of each reporting period whether there is any indication that an asset may be impaired.

The Group also records impairment charges on available—for—sale equity investments when there has been a significant or prolonged decline in the fair value below their cost. The determination of what is 'significant' or 'prolonged' requires judgment. In making this judgment, the Group evaluates, among other factors, historical share price movements and duration and extent to which the fair value of an investment is less than its cost.

When the fair value below the cost of available-for-sale equity instruments is significant or prolonged, the Group recognizes impairment subsequently and reclassifies previous gain or loss that has been recognized in other comprehensive income to profit or loss.

## 5.5 Surtax on undistributed corporate earnings

The Group shall pay an additional surtax where the use of corporate earnings on qualifying investments, wage increase and dividend payments fall below a certain portion of its taxable income for 3 years from 2015. As the Group considers the surtax on its undistributed earnings when computing its corporate income tax, the Group's income tax may change arising from changes in investment, wage growth, or dividend payouts.

## 6. Operating segment information

The Group is organized into three operating segments based on their products and services and the details are presented below:

- Securities business: Brokerage service, proprietary trading and underwriting of securities
- b) Merchant banking: Issue, discount and trading of promissory note or bond, investment and loan of facilities or working capital, payment guarantees, and management of CMA
- c) Head office: Head office segment exclude segments above
- d) Others: The proportion of operating segment of the consolidated subsidiaries was not important in terms of the Group.

The financial information of the operating segments for the years ended December 31, 2016 and 2015 are as follows (Korean won in thousands):

	Year ended December 31, 2016						
	Securities busine	Merchant ss banking	Head Office	Others	Consolidated adjustments	Total	
Total revenue	469,172,47	7 \ 357,919,935	4,048,700,560	127,992,663	(48,553,457)	4,955,232,178	
Total expense	(367,330,45	8) (156,595,151)	(4,020,371,556)	(122,716,698)	44,384,543	(4,622,629,320)	
Income (loss) before income tax expense	101,842,01	9 201,324,784	28,329,004	5,275,965	(4,168,914)	332,602,858	
Income tax expense (*1)	(24,105,02	4) (47,651,635)	(6,705,202)	(8,780)	(285,514)	(78,756,155)	
Net income (loss)	77,736,99	5 \ 153,673,149	21,623,802	5,267,185	(4,454,428)	253,846,703	
Assets (*2)	12,058,029,12	0 3,262,033,789	-	2,508,902,991	(561,152,667)	17,267,813,233	
Liabilities (*2)	10,565,058,76	6 2,868,950,438	-	2,325,950,563	(370,456,762)	15,389,503,005	
	Year ended December 31, 2015						
	Securities busine	Merchant ss banking	Head Office	Others	Consolidated adjustments	Total	
Total revenue	645,682,78	5 356,965,829	2,164,229,145	157,535,428	(79,130,666)	3,245,282,521	
Total expense	(490,390,78	7) (164,259,243)	(2,118,905,930)	(90,901,275)	25,663,349	(2,838,793,886)	
Income (loss) before income tax expense	155,291,99	8 192,706,586	45,323,215	66,634,153	(53,467,317)	406,488,635	
Income tax expense (*1)	(59,299,09	4) (45,933,412)	(10,803,211)	(231)	(3,115,955)	(119,151,903)	
Net income (loss)	95,992,90	4 \ 146,773,174	34,520,004	66,633,922	(56,583,272)	287,336,732	
Assets (*2)	9,308,668,38	1 3,565,614,373	-	1,961,130,297	(406,744,423)	14,428,668,628	
Liabilities (*2)	7,897,314,25	0 3,246,345,136	_	1,704,289,841	(137,844,845)	12,710,104,382	

<sup>(\*1)</sup> The amount is allocated using the ratio of net income before income tax of each segment for 2016 and 2015.

The measured amounts in each segment are reported to the chief operating decision maker for the purpose of assessing the performance of each segment.

The geographic operating revenue information and the geographic non-current assets information for the years ended December 31, 2016 and 2015 are as follows (Korean won in thousands):

	Year ended Dec	Year ended December 31, 2016			Year ended December 31, 2015			
	Domestic	Overs	eas		Domestic		Overseas	
Operating revenue	4,946,573,758	\	27,907	\	3,240,822,368	\	226,565	
Non-current assets (*)	156,522,954		-		171,803,662		-	
(*) Represents the amount a	s of December 31, 2016	and 2015.						

<sup>(\*2)</sup> The total assets and liabilities represent the amount as of December 31, 2016 and 2015.

## 7. Cash and due from banks

Cash and due from banks as of December 31, 2016 and 2015 are as follows (Korean won in thousands):

	December 31, 2016	December 31, 2015
Cash and cash equivalents:		
Cash on hand		
Current deposits	1,291,772	11,020,912
Demand deposits	25,801,595	23,869,983
Foreign currency deposit	10,127,261	1,628,459
MMDA	63,900,000	109,500,000
Others	556,066,963	400,206,569
	657,187,591	546,225,923
Due from banks in Korean won: Reserve for claims of customers Deposits(*)	38,410,380	37,000,000
Guarantee deposits for securities  Borrowed Guarantee deposits for	62,101,200	9,059,110
trading futures and options	37,100,000	38,723,763
Long - term deposits	2,000,000	2,000,000
Restricted deposits etc.	174,500	129,000
Other deposits	19,982,474	12,930,485
	159,768,554	99,842,358
	<u> </u>	646,068,281

<sup>(\*)</sup> Pursuant to the Law on Capital Market and Financial Investment Services and related regulations, the Group is required to place a deposit after daily calculation in Korea Securities Finance Corporation ("KSFC") as a reserve against customers' deposits for the trading of stocks, derivatives and for other purposes. These deposits should exceed the amount which is calculated by deducting cash commission guarantee from total customers' deposit.

## 8. Financial assets at fair value through profit or loss

Financial assets at fair value through profit or loss as of December 31, 2016 and 2015 are as follows (Korean won in thousands):

	Book value	Book value (Fair value)		
	December 31, 2016	December 31, 2015		
Financial assets held for trading:				
Equity securities	> 237,782,825	278,575,974		
Debt securities:				
Government and public bonds	3,573,543,493	2,923,902,109		
Special purpose bonds	1,769,127,267	2,077,567,966		
Corporate bonds	1,273,908,333	1,212,963,721		
Collective investment securities	188,026,959	87,937,755		
Commercial papers	269,355,080	368,891,602		
Asset backed short-term bonds	50,078,198	22,436,864		
Foreign currency securities	107,072,958	974,166		
	7,468,895,113	6,973,250,157		
Derivative assets held for trading:				
Interest rate derivatives	74,046,282	112,573,356		
Foreign currency derivatives	50,225,716	31,296,123		
Equity derivatives	29,541,408	10,620,497		
Stock price index derivatives	364,124	21,760		
Credit	386,719	1,071,624		
Others	5,271,113	6,003,095		
Credit risk adjustments	(607,797)	(489,476)		
Deferred day 1 profit or loss	(1,854,851)	887,031		
	157,372,714	161,984,010		
Financial assets designated at fair value through profit or loss (*1):				
Equity-linked securities	4,517,369	4,180,453		
Derivatives-linked securities Reserve for claims of customers'	-	637,855		
deposits (trust) (*2)	270,866,951	295,920,714		
Others	149,693,912	34,962,539		
Credit risk adjustments	(6,987)	(7,576)		
Deferred day 1 profit or loss	(44,327)	(193,316)		
	425,026,918	335,500,669		
	8,051,294,745	7,470,734,836		

<sup>(\*1)</sup> Equity-linked securities, derivatives-linked securities and reserve for claims of customers' deposits were appointed as "Financial assets at fair value through profit or loss" by exercising the fair value option.

<sup>(\*2)</sup> Pursuant to the Law on Capital Market and Financial Investment Services and related regulations, the Group is required to place a deposit after daily calculation in Korea Securities Finance Corporation ("KSFC") as a reserve against customers' deposits for the trading of stocks, derivatives and for other purposes. These deposits should exceed the amount which is calculated by deducting cash commission quarantee from total customers' deposit.

## 8. Financial assets at fair value through profit or loss (cont'd)

Debt securities of financial assets classified held-for-trading as of December 31, 2016 and 2015 are as follows (Korean won in thousands):

		December 31, 2016		December 31, 2015						
	Face value	Acquisition cost	Fair value	Face value Acquisition cost Fair value						
Debt securities: Government and public bonds Special purpose bonds Corporate bonds	3,761,036,247 1,752,526,931 1,276,987,327	3,590,256,147 1,775,692,786 1,277,956,215	3,573,543,493 1,769,127,267 1,273,908,333	2,054,544,978 2,077,145,127 2,077,567,966						
Foreign bonds (*)	6,790,550,505 93,150,000 100,000,000	6,643,905,148 104,160,587 1,122,138	6,616,579,093 102,723,226 1,042,160							
Commercial papers Asset backed short-term	269,000,000	269,000,000	269,355,080	,,						
bonds	50,000,000	50,000,000	50,078,198	22,400,000 22,400,000 22,436,864						
	7,302,700,505	7,068,187,873	7,039,777,757	6,502,027,877 6,605,381,496 6,605,762,262						

<sup>(\*)</sup> The acquisition cost and fair value of foreign bonds are converted into Korean won.

Derivative embedded securities of financial assets classified held-for-trading as of December 31, 2016 and 2015 are as follows (Korean won in thousands):

	De	cember 31, 20	16	December 31, 2015						
	Nominal value	Issue value	Fair value	Nominal value	Issue value	Fair value				
Equity linked securities Derivative linked	<b>4,472,000</b>	<b>\</b> 4,472,000	<b>\</b> 4,517,369	<b>4,744,000</b>	4,744,000	4,180,453				
securities				1,475,000	1,475,000	637,855				
	<b>\</b> 4,472,000	<b>\</b> 4,472,000	<b>4,517,369</b>	6,219,000	<u>\ 6,219,000</u>	<b>\</b> 4,818,308				

#### 9. Available-for-sale financial assets

Available-for-sale financial assets as of December 31, 2016 and 2015 are as follows (Korean won in thousands):

	Book value (Fair value)					
	Dec	cember 31, 2016	Decer	nber 31, 2015		
Equity securities and equity investment (*) Debt securities:	\	233,758,085	\	252,073,398		
Government and public bonds		341,241,014		85,404,225		
Special purpose bonds		448,685,474		200,381,207		
Corporate bonds		248,261,232		83,891,970		
Collective investment securities		97,987,525		84,710,716		
Foreign currency securities		10,731,480		-		
Commercial papers		185,583,280		20,697,421		
Others		8,314,005		6,262,079		
	\	1,574,562,095	\	733,421,016		

<sup>(\*)</sup> Some non-marketable equity securities were measured at acquisition cost because they could not be evaluated at fair value with a reliable valuation model. If net asset value significantly decreases, the Group recognizes the difference between acquisition cost and net asset value as impairment loss.

# 9. Available-for-sale financial assets (cont'd)

Valuation gain (loss) on valuation of available-for-sale financial assets as of December 31, 2016 and 2015 are as follows (Korean won in thousands):

					Dece	ember 31, 2016	6						
		Acquisition cost		Amortized cost	A	ccumulated pairment loss		Fair value	G	ain(loss) on valuation			
Equity securities: Marketable													
equity securities Non-marketable	\	6,675,537	\	6,675,537	\	(1,100,206)	\	5,843,940	\	268,609			
equity securities		131,978,067		131,978,067		(3,903,847)		227,914,145		99,839,925			
Debt securities: Government and		138,653,604		138,653,604		(5,004,053)		233,758,085		100,108,534			
public bonds Special purpose		340,411,936		340,357,251		-		341,241,014		883,763			
bonds		448,130,280		448,042,918		-		448,685,474		642,556			
Corporate bonds		236,378,643		241,763,244				248,261,232		6,497,988			
O all a a three		1,024,920,859		1,030,163,413				1,038,187,720		8,024,307			
Collective investment		444 000 750		444 000 750		(7.005.045)				(= 004 040)			
securities Commercial paper		111,306,758 185,137,988		111,306,758 185,370,563		(7,985,215) -		97,987,525 185,583,280		(5,334,018) 212,717			
Foreign currency securities		10,444,600		10,444,600		(94,960)		10,731,480		381,840			
Other securities	_	8,314,005		8,314,005				8,314,005					
		1,478,777,814		1,484,252,943		(13,084,228)		1,574,562,095	<u> </u>	103,393,380			
		December 31, 2015											
		Acquisition cost		Amortized cost	Accumulated impairment loss		Fair value		Gain(loss) on valuation				
Equity securities:						Daimicht 1033		Tall value		valuation			
Marketable equity securities Non-marketable	\	56,498,809	\	56,498,809	\	(50,091)	\	51,917,330	\	(4,531,388)			
equity securities		114,727,359		114,727,359		(3,558,879)		200,156,068		88,987,588			
Daht assumitias		171,226,168		171,226,168		(3,608,970)		252,073,398		84,456,200			
Debt securities: Government and public bonds		81,876,736		81,876,736		-		85,404,225		3,527,489			
Special purpose		200 400 002		200 260 914				200 201 207		11 202			
bonds Corporate bonds		200,499,003 84,059,116		200,369,814 84,089,240		- (1,475,790)		200,381,207 83,891,970		11,393 1,278,520			
Corporato bondo		366,434,855		366,335,790		(1,475,790)		369,677,402		4,817,402			
Collective investment		, ,		, ,		<b>,</b> , , ,		, ,		, ,			
securities		90,369,206		90,369,206		(7,984,921)		84,710,716		2,326,431			
Commercial paper Foreign currency		20,682,090		20,682,090		-		20,697,421		15,331			
securities Other securities		94,960 6,262,079		94,960 6,262,079		(94,960)		- 6,262,079		-			
Onici Sconines	_		_		_	-			_				
		655,069,358	\	654,970,293		(13,164,641)	\	733,421,016		91,615,364			

## 9. Available-for-sale financial assets (cont'd)

Changes in valuation gain (loss) on valuation available-for-sale financial assets for the years ended December 31, 2016 and 2015 are as follows (Korean won in thousands):

		Year ended December 31, 2016					
	Beginning		Gain on	Ending			
	balance	Reclassification	valuaton	balance			
Equity securities:							
Marketable equity securities	(4,531,388)	4,736,807	\ 63,190	\ 268,609			
Non-marketable equity securities	88,987,588	152,698	10,699,639	99,839,925			
	84,456,200	4,889,505	10,762,829	100,108,534			
Debt securities		-					
Government and public bonds	3,527,489	(2,995,783)	352,057	883,763			
Special purpose bonds	11,393	(381,207)	1,012,370	642,556			
Corporate bonds	1,278,520	(90,857)	5,310,325	6,497,988			
	4,817,402	(3,467,847)	6,674,752	8,024,307			
Collective investment securities	2,326,431	(1,334,285)	(6,326,164)	(5,334,018)			
Commercial paper	15,331	(14,696)	212,082	212,717			
Foreign currency			004.040	004.040			
securities	- 04.045.004	70.077	381,840	381,840			
language to viellant	91,615,364	72,677	11,705,339				
Income tax effect	(22,096,408)	(17,515)	(2,789,724)	(24,903,647)			
	<b>№</b> 69,518,956	55,162	8,915,615	78,489,733			
	Dii	Year ended Dec	cember 31, 2015	For ellipsing			
	Beginning	Declaration	Gain on	Ending			
Equity accurition:	balance	Reclassification	valuaton	balance			
Equity securities:							
Marketable equity securities	74,711,877	(75,056,772)	(4,186,493)				
Non-marketable equity securities	88,334,656	(656,293)	1,309,225	88,987,588			
	163,046,533	(75,713,065)	(2,877,268)	84,456,200			
Debt securities							
Government and public bonds	1,656,429	- (404 404)	1,871,060	3,527,489			
Special purpose bonds	227,140	(194,491)	(21,256)	11,393			
Corporate bonds	1,477,801	(404,070)	204,789	1,278,520			
Only of the formation and an auditor	3,361,370	(598,561)	2,054,593	4,817,402			
Collective investment securities	2,458,240	(438,621)	306,812	2,326,431			
Commercial paper	400,000,440	(70.750.047)	15,331	15,331			
Income toy offeet	168,866,143	(76,750,247)	(500,532)	91,615,364			
Income tax effect	(40,375,894)	18,350,984	(71,498)	(22,096,408)			
	128,490,249	(58,399,263)	\ (572,030)	<u>\</u> 69,518,956			

Residual maturity of debt securities in available-for-sale financial assets as of December 31, 2016 and 2015 are as follows (Korean won in thousands):

		December 31, 2016									
	No later than 1 year	After 1 year but no later than 5 years	After 5 year but no later than 10 years	Total							
Debt securities:											
Government and public bonds Special purpose bonds Corporate bonds Commercial paper	150,129,064 86,536,552 185,354,788	330,586,942 298,556,410 161,724,680 228,492	10,654,072	341,241,014 448,685,474 248,261,232 185,583,280							
	122,020,404	791,096,524	10,654,072	1,223,771,000							

# 9. Available-for-sale financial assets (cont'd)

		December 31, 2015									
	No later than 1 year	After 1 year but no later than 5 years	After 5 year but no later than 10 years	Total							
Debt securities:											
Government and public bonds	_	` -	<b>\</b> 85,404,225	85,404,225							
Special purpose bonds	200,381,207	-	-	200,381,207							
Corporate bonds	-	83,891,970	-	83,891,970							
Commercial paper	20,242,271	455,150		20,697,421							
	220,623,478	84,347,120	<b>\</b> 85,404,225	390,374,823							

# 10. Investments in associates and joint venture

Details of investments in associates and joint venture as of December 31, 2016 and 2015 are as follows (Korean won in thousands):

					Book value			
				D	ecember 31,	December 31,		
Associates	Location	Closing month	Ownership		2016	2015		
Saengbo Wootoo Shinyoung			•					
Housing CR-Reit Co., Ltd. II								
(*1)	Korea	December	16.36%	/	25,000,000	> 25,000,000		
Cabiroth Investment								
Consulting (Shanghai) Co.,								
Ltd.	China	December	0.00%		-	186,159		
Globalone Private IPO	Korea							
Investment Trust #1 (*2)			50.00%		6,500,000	-		
MPLUS Private Real Estate	Korea							
Investment Trust #4			83.33%		4,945,084	-		
Pureun Partners Fund (*2)	Korea		79.92%		3,246,789	-		
Csquared Merry Private	Korea							
Investment Trust1st (*2)			79.87%		5,626,633	-		
Bros IPO Investment	Korea							
Private Trust 1 <sup>st</sup> (*2)			80.00%		3,225,157	-		
Human Investment	Korea							
Trust(*2)			80.00%		3,380,400	-		
Aion Private Investment	Korea							
Trust 1st (*2)			80.00%		3,272,157	-		
Kiwoom Milestone Europe	Korea							
Professional Private Real								
Estate InvestmentTrust3								
(*2)			22.53%		23,514,987	-		
Bestars Samo Property	Korea							
No.8 Investment Inc. (*2)			37.50%		31,188,362	-		
Platform Partners active	Korea							
mezzanine private equity								
investment trust No.2 (*2)			8.50%		1,086,286	-		
Airplane fund 5 (*2)	Korea		42.63%		74,926,701	-		
Airplane fund 6 (*2)	Korea		36.37%		40,154,514	-		
High Yield Plus Investment Trust 3 <sup>rd</sup> (*2)	Korea		1.37%		399,653	-		
High Yield Plus Investment					,			
Trust 4 <sup>th</sup> (*2)	Korea		0.87%		600,515	-		
East Spring High Yield 2 <sup>nd</sup>					, -			
(*2)	Korea		7.90%		4,684,371			
				\	231,751,609	> 25,186,159		

#### 10. Investments in associates and joint venture (cont'd)

- (\*1) Reclassified as an associate because the Group holds 21.58% of voting rights over the associate. Investments in this associate are cumulative participating preferred stocks and the Group has the right to receive dividends based on the dividend rate, if distributable profit is generated.
- (\*2) Classified as joint venture after the consent of all participants that make important decisions. Joint venture is financed by the participants and invests in stocks, real estate, etc. and distributes the revenue to the investors.

Changes in investments in associates and joint venture for the years ended December 31, 2016 and 2015 are as follows (Korean won in thousands):

	Year ended December 31, 2016											
Beginning	Acquisition	Disposal	Gain or loss on equity			Capital changes in	Other (*)	Increase due to business	Ending			
balance	Acquisition	Disposai	method	dividends	t	equity method	Other ( )	combinati	balance			
25,186,1	615,771,	(409,676,5	2,453,0	(2,515,2	34,6	718,8	(220,8	\ -	231,751,			

(\*) The book value eliminated as a result of selling subsidiary shares for the year ended December 31, 2016 that held shares of Cabiroth Investment Consulting (Shanghai) Co., Ltd. is included.

			`	Year ended Ded	cemb	er 31, 2015				
							Increase due to	<u></u>		
	Beginning						business			Ending
	balance	Acquisition		Impairment		Other	combination			balance
\	25,207,861	\	_ \	(34,243)	\	12,541	\	-	\	25,186,159

Condensed financial statements as of December 31, 2016 and 2015 are as follows (Korean won in thousands):

		December	r 31, 2	2016				
Associates		Asstes		Liabilities	Revenue		Net profit(loss)	
Saengbo Wootoo Shinyoung Housing CR- Reit Co., Ltd. II	\	375,244,229	\	232,499,761	\	82,831	\	(2,893,160)
Globalone Private IPO Investment Trust #1 MPLUS Private Real Estate Investment Trust		13,537,963		537,963		1,456,932		850,683
#4		6,022,861		88,760		490,201		144,112
Pureun Partners Fund Csquared Merry Private Investment		4,064,465		1,998		818,799		640,559
Trust1st Bros IPO Investment		7,049,218		4,806		913,290		727,992
Private Trust 1st		4,038,972		7,567		120,577		(37,372)
Human Investment Trust		4,229,228		3,727		319,801		238,027
Aion Private Investment Trust 1st Kiwoom Milestone Europe Professional		4,090,972		775		181,227		116,643
Private Real Estate Investment Trust3 Bestars Samo Property		110,225,143		5,847,421		1,619,751		(4,641,595)
No.8 Investment Inc. Platform Partners active mezzanine private		176,918,168		93,749,203		10,779,464		6,214,667
equity investment trust No.2		12,782,641		34		1,008,010		1,007,369
Airplane fund 5		181,753,967		6,001,712		11,052,467		522,255
Airplane fund 6 High Yield Plus Investment		114,127,800		3,729,755		8,297,628		3,145
Trust 3 <sup>rd</sup> High Yield Plus Investment		29,147,232		13,805		963,629		599,677
Trust 4 <sup>th</sup> East Spring		69,240,907		17,544		3,343,590		1,450,155
High Yield 2nd		59,321,944		44,981		2,449,187		1,637,472
	\	1,171,795,710	\	342,549,812	\	43,897,384	\	6,580,629

# 10. Investments in associates (cont'd)

		Decembe	r 31, 2	2015				
Associates	Assets			Liabilities		Revenue		Net Profit(loss)
Saengbo Wootoo Shinyoung Housing CR- Reit Co., Ltd. II Cabiroth Investment Consulting(Shanghai)	\	388,126,330	\	242,823,369	\	210,055	\	(4,055,879)
Co., Ltd.		368,554		<u>-</u>		111,568		88,675
	\	388,494,884	\	242,823,369	\	321,623	\	(3,967,204)

#### 11. Loans and CMA

Details of loans and CMA as of December 31, 2016 and 2015 consist of the following (Korean won in thousands):

			De	cember 31, 2016		
				Allowance for possible loan		
		Face value		losses		Book value
Loans:						
Call loans	\	60	\	-	\	60
RP purchased Broker's loan		745,000,000 605,663,407		-		745,000,000 605,663,407
Loans to employees		2,944,648		(68,673)		2,875,975 3,787,530,34
Loans		3,843,948,015		(56,417,673)		2
Notes discounted		72,300,000		(276,393)		72,023,607
Loans purchased		170,535,303		(7,513,521)		163,021,782
Privately-placed corporate bonds  Payment on behalf of another company		115,984,636 4,399,789		(466,826) (4,365,996)		115,517,810 33,793
Deferred loan fees		(14,127,616)		(4,303,990)		(14,127,616)
	\	5,546,648,242	\	(69,109,082)	\	5,477,539,160
CMA:						
CMA-notes discounted	<u>\</u>	28,100,000	<u>\</u>	(90,452)	<u>\</u>	28,009,548
				cember 31, 2015		
				Allowance for possible loan		
Lagran		Face value		losses		Book value
Loans:						
Call loans	/	1,424,923	\	-	\	1,424,923
RP purchased		432,200,000		-		432,200,000
Broker's loan		438,243,473		(00.740)		438,243,473
Loans to employees Loans		3,148,248 3,446,919,425		(69,746) (117,991,822)		3,078,502 3,328,927,603
Notes discounted		178,300,000		(340,284)		177,959,716
Loans purchased		36,597,083		(6,706,712)		29,890,371
Privately-placed corporate bonds		50,425,997		(1,804,136)		48,621,861
Payment on behalf of another company		7,311,254		(7,266,561)		44,693
Discount present value		-		-		· -
Deferred loan fees		(10,544,957)				(10,544,957)
	\	4,584,025,446	\	(134,179,261)	\	4,449,846,185
CMA:						
CMA-notes discounted	<u>\</u>	55,000,000	<u>\</u>	(179,751)	\	54,820,249

#### 11. Loans and CMA (cont'd)

#### **Broker's loans**

The Group provides loans to clients who either make margin transactions for purchasing securities or entrust their investment securities to the Group and records them as credit loans granted and loans secured by securities, respectively. Credit loans granted are secured with the securities purchased by clients and cash in clients' deposit account, which amount to 140~150% of the original loan. When the collateral value is insufficient to secure the loan and its accrued income, the Group requests for additional collateral cash or securities.

In addition, the Group asks for an opening guarantee deposit in connection with brokers' loans and the deposits are recorded as a liability item guarantee deposit received.

Residual maturity of debt securities as of December 31, 2016 and 2015 is as follows (Korean won in thousands):

	December 31, 2016			December 31, 2015
No later than 1 year	\	3,464,093,262	\	2,950,912,724
After 1 year but no later than 3 years		1,467,605,900		1,336,486,309
After 1 year but no later than 5 years		535,390,270		162,234,607
After 5 years		93,686,426		144,936,764
	\	5,560,775,858	\	4,594,570,404

Changes in allowance for possible loan losses for the years ended December 31, 2016 and 2015 are as follows (Korean won in thousands):

	December 31, 2016			December 31, 2015		
Beginning balance	\	134,359,012	\	128,784,802		
Bad debts written off Collection of loans written-off		(56,637,682)		-		
in prior periods		535,105		-		
Utilized		(15,579,819)		(5,858,864)		
Transfer (*)		-		515,824		
Unwinding effect		(4,046,832)		(3,660,923)		
		58,629,784		119,780,839		
Provision for allowance		10,569,750		14,578,173		
	\	69,199,534	\	134,359,012		

<sup>(\*)</sup> It was the amount transferred from provision to allowance for doubtful accounts, or from allowance for doubtful account to provision for the years ended December 31, 2016 and 2015.

Changes in incidental income or incident expense of deferred loans for the years ended December 31, 2016 and 2015 are as follows (Korean won in thousands):

		Year ended December 31, 2016								
	Beginning Income or balance expense incurred Depreciation			Ending balance						
Incidental income Incidental expense	<u>\</u>	(11,509,134) 964,176	<u>\</u>	(21,405,867)	\	18,448,010 (624,801)	\	(14,466,991) 339,375		
		(10,544,958)	\	(21,405,867)	\	17,823,209	\	(14,127,616)		

# 11. Loans and CMA (cont'd)

		Year ended December 31, 2015									
		Beginning balance	exp	Income or xpense incurred Depreciation				Ending balance			
Incidental income Incidental expense	\	(7,434,236) 2,094,393	\	(17,072,744) 19,992	\	12,997,846 (1,150,209)	\	(11,509,134) 964,176			
	\	(5,339,843)	\	(17,052,752)	\	11,847,637	\	(10,544,958)			

Gain (loss) related to loans for the years ended December 31, 2016 and 2015 are as follows (Korean won in thousands):

	Year ended December 31 2016		Year ended December 31, 2015
Gain on disposal of loans	8,294,7	77`	25,229,847
Loss on disposal of loans Provision for doubtful accounts	8,294,7 (782,5 (10,569,7)	33)	25,229,847 (181,786) (14,578,173)
	(11,352,2		(14,759,959) \ 10,469,888

# 12. Lease

Details of lease assets for the years ended December 31, 2016 and 2015 are as follows (Korean won in thousands):

	Year ended December 31, 2016											
	Ac	equisition cost	Al	llowance for lease		ccumulated lepreciation	Provision for loss on disposal of lease			Book value		
Financial lease Operating	\	264,854,951	\	(4,848,917)	\	-	\	-	\	260,006,034		
lease												
	\	264,854,951	<u>\</u>	(4,848,917)	\	-	\	_	<u>\</u>	260,006,034		
				Year e	ended	d December 31	, 2015					
			٨١	llawanaa far	۸	a a como collado al	Provis					
	Ac	equisition cost		llowance for lease		ccumulated lepreciation	loss on of le	•		Book value		
Financial lease Operating	\	477,850,702	\	(6,315,833)	\	-	`	-	\	471,534,869		
lease		4,548,494		_		(3,396,209)		(22,742)		1,129,543		
	\	482,399,196	\	(6,315,833)	\	(3,396,209)	\	(22,742)	\	472,664,412		

### 12. Lease (cont'd)

Details of total lease investment and the present value of minimum financial lease as of December 31, 2016 and 2015 are as follows (Korean won in thousands):

		December 31, 2016				December	r 31, 2015		
		Total lease investment	fiı	Minimum nancial lease		Total lease investment		Minimum nancial lease	
No later than 1 year After 1 year but	\	156,054,935	\	150,609,359	\	225,222,812	\	217,340,347	
no later than 5 years After 5 years		122,151,516		107,991,354		283,336,542		244,230,717	
·	\	278,206,451	<u>\</u>	258,600,713	\	508,559,354	\	461,571,064	

Unearned interests of financial lease as of December 31, 2016 and 2015 are as follows (Korean won in thousands):

	December 31, 2016			ecember 31, 2015
Total lease investment Minimum financial lease	\	278,206,451 264,854,951	\	508,559,354 477,850,702
Unearned interest	\	13,351,500	\	30,708,652

Unsecured residual value of financial lease as of December 31, 2016 and 2015 is as follows (Korean won in thousands):

De	ecember 31,	ecember 31,	
	2016		2015
\	2.121.148	\	5.332.986

The estimated future operating lease revenues as of December 31, 2016 and 2015 are as follows (Korean won in thousands):

	December 31, 2016		Ded	cember 31, 2015
No later than 1 year	\	_	\	325,570
	\	-	\	325,570

Changes in allowance for lease for the years ended December 31, 2016 and 2015 are as follows (Korean won in thousands):

	Year ended December 31, 2016			ear ended ecember 31, 2015
Beginning balance	\	6,315,833	\	7,105,121
Provision for allowance		-		-
Bad debts written off		(1,211,362)		
Recovery of amortized bond		21,346		-
Unwinding effect		(222,378)		(141,422)
		4,903,439		6,963,699
Provision for allowance				
(Reversal of allowance for lease)		(54,522)		(647,866)
	\	4,848,917	<u>\</u>	6,315,833

# 12. Lease (cont'd)

Gain (loss) related to lease for the years ended December 31, 2016 and 2015 are as follows (Korean won in thousands):

	Year ended December 31, 2016		-	ecember 31, 2015
Interest on financial lease	\	24,611,914	\	36,722,966
Commissions on operating lease		325,570		1,002,788
Gain on disposal of lease		2,092,524		1,628,385
Reversal of allowance for doubtful accounts		54,522		647,866
Others		22,742		8,383
		27,107,272		40,010,388
Operating lease depreciation		(242,586)		(747,426)
Lease commission expense		(194,312)		(483,306)
Loss on disposal of lease		(599,249)		(291,663)
Provision for allowance		-		
Others		(16,125)		(64,642)
		(1,052,272)		(1,587,037)
	\	26,055,000	\	38,423,351

# 13. Property and equipment

Details of property and equipment as of December 31, 2016 and 2015 are as follows (Korean won in thousands):

	December 31, 2016						
	Ac	quisition cost		Accumulated depreciation		Book value	
Land Buildings Vehicles Furniture and fixtures Others	\	59,306,738 39,081,619 122,925 60,407,262 591,421	\	(9,273,590) (42,605) (50,548,100)	\	59,306,738 29,808,029 80,320 9,859,162 591,421	
	\	159,509,965	\	(59,864,295)	\	99,645,670	
			De	cember 31, 2015			
	Ac	quisition cost		Accumulated depreciation		Book value	
Land Buildings Vehicles Furniture and fixtures Others	\	59,272,919 38,697,660 552,635 66,123,566 591,421	\	(8,008,532) (308,215) (55,621,581)	\	59,272,919 30,689,128 244,420 10,501,985 591,421	
	<u>\</u>	165,238,201	<u>\</u>	(63,938,328)	<u>\</u>	101,299,873	

### 13. Property and equipment (cont'd)

Changes in property and equipment for the years ended December 31, 2016 and 2015 are as follows (Korean won in thousands):

		Year ended December 31, 2016										
	Beginning balance	Addition (*1)	Disposal	Depreciation	Transfer (*2)	Other	Ending balance					
Land Buildings Vehicles Furniture and fixture Others	59,272,919 30,689,128 244,420 10,501,985 591,421	- 89,658	(35,000) (10,849) (206,578) (275,035)	(957,708) (47,180) (4,485,939)	68,819 87,458 - -	-	59,306,738 29,808,029 80,320 9,859,162 591,421					
Outoro	101,299,873	4,207,809	(527,462)	(5,490,827)	156,277	\ _	99,645,670					

- (\*1) ₩372,701 thousand of tangible assets based on the recognition of provision for restoration cost are included in the acquisition of furniture and fixtures.
- (\*2) Land and buildings are replaced with investment properties based on the change in rental rate.

		Year ended December 31, 2015									
	Beginning balance	Addition (*1)	Disposal	Depreciation	Transfer (*2)	Other	Ending balance				
Land	60,756,336	\ _	` .	\ _	(1,483,417)	\ _	59,272,919				
Buildings	33,027,336	-	-	(999,548)	(1,338,660)	-	30,689,128				
Vehicles	261,586	-	-	(113,109)	95,943	-	244,420				
Furniture and fixture	8,545,041	5,642,644	(24,638)	(4,158,467)	-	497,405	10,501,985				
Others	1,368,403	18,973		(292,128)		(503,827)	591,421				
	103,958,702	5,661,617	(24,638)	(5,563,252)	(2,726,134)	(6,422)	101,299,873				

- (\*1) ₩390,304 thousand of tangible assets based on the recognition of provision for restoration cost are included in the acquisition of furniture and fixtures.
- (\*2) Land and buildings are replaced with investment properties based on the change in rental rate and the increase in vehicle is the amount that was replaced with finance lease receivables due to the early cancellation of the finance lease vehicles.

Insured tangible assets as of December 31, 2015 are as follows (Korean won in thousands):

Insurance	Insured asset	Insurance company		Insurance coverage
Property insurance	Buildings, etc.	Meritz Fire & Mari ne Insurance Co ., Ltd., etc.	\	66,608,872
Data processing equipment insurance	Data processing equipment, etc.	Meritz Fire & Mari ne Insurance Co ., Ltd.		2,119,660
Automobile insurance	Vehicles	Meritz Fire & Mari ne Insurance Co ., Ltd.		347,030
			\	69,075,562

## 14. Investment property

Details of investment property as of December 31, 2016 and 2015 are as follows (Korean won in thousands):

	December 31, 2016						
			Α	ccumulated			
	Acquisition cost			epreciation	Book value		
Land	\	12,489,782	\	-	\	12,489,782	
Buildings		14,976,426		(6,302,857)		8,673,569	
	\	27,466,208	\	(6,302,857)	<u>\</u>	21,163,351	

#### 14. Investment property (cont'd)

	December 31, 2015							
	Accumulated							
	Acq	uisition cost	depreciation			Book value		
Land	\	19,360,454	\	-	\	19,360,454		
Buildings		16,995,058		(6,303,224)		10,691,834		
	\	36,355,512	\	(6,303,224)	<u>\</u>	30,052,288		

Changes in the net carrying amount of investment properties for the years ended December 31, 2016 and 2015 are as follows (Korean won in thousands):

					Yea	ar ended Decembe	r 31	, 2016		
	Begi	nning balance	ī	Acquisition		Depreciation		Transfer (*)		Ending Balance
Land Buildings: Acquisition	\	19,360,454	\	(6,801,853)	\	-	\	(68,819)	\	12,489,782
cost Accumulated		16,995,058		(1,614,198)		-		(404,434)		14,976,426
depreciation		(6,303,224)		84,073		(400,682)		316,976		(6,302,857)
	\	30,052,288	\	(8,331,978)	\	(400,682)	\	(156,277)	\	21,163,351
					Yea	ar ended Decembe	r 31	, 2015		
	Begi	nning balance	-	Acquisition		Depreciation		Transfer (*)		Ending Balance
Land Buildings:	\	17,877,037	\	-	\	-	\	1,483,417	\	19,360,454
Acquisition cost Accumulated		14,410,398		-		-		2,584,660		16,995,058
depreciation		(4,664,454)		-		(392,770)		(1,246,000)		(6,303,224)
	\	27,622,981	\	-	\	(392,770)	\	2,822,077	\	30,052,288

<sup>(\*)</sup> Transferred from property and equipment, according to the change in rental ratio.

The fair value of the land and buildings provided by an independent property appraisal firm is amounted to \14,244,928 thousand and \10,818,375 thousand as of December 31, 2016 and 2015, respectively.

The rental income and depreciation arising from the Group's investment properties for the years ended December 31, 2016 and 2015 are as follows (Korean won in thousands):

		Year ended ecember 31, 2016		ear ended cember 31, 2015
Rental income	\	1,525,158	\	1,480,426
Depreciation		(400,682)		(392,770)

### 15. Intangible assets

Intangible assets as of December 31, 2016 and 2015 are as follows (Korean won in thousands):

	December 31, 2016								
	Acc	quisition cost	_	Accumulated amortization		ccumulated pairment loss		Book value	
Software	\	45,216,379	\	(37,230,508)	\	-	\	7,985,871	
Membership		15,851,273		-		(4,179,625)		11,671,648	
Others		16,396,015		(339,600)				16,056,415	
	\	77,463,667	\	(37,570,108)	\	(4,179,625)	\	35,713,934	
				Decembe	r 31, :	2015			
	•			ccumulated		ccumulated			
	Acc	quisition cost		amortization	ımp	pairment loss		Book value	
Software	\	43,034,773	\	(30,291,018)	\	-	/	12,743,755	
Membership		15,946,156		-		(4,464,625)		11,481,531	
Others		16,396,015		(169,800)				16,226,215	
	\	75,376,944	\	(30,460,818)	\	(4,464,625)	\	40,451,501	

Changes in carrying amounts of intangible assets for the years ended December 31, 2016 and 2015 are as follows (Korean won in thousands):

		Year ended December 31, 2016	
	Beginning balance	Addition Decrease Amortization Other	Ending ers balance
Software Membership Others	12,743,755 11,481,531 16,226,215	2,181,606	- 7,985,871 - 11,671,648 - 16,056,415
	40,451,501	4,302,425 (1,930,702) (7,109,290)	- 35,713,934
		Year ended December 31, 2015	
	Beginning balance	Impairment Addition Amortization loss (*) Other	Ending ers balance
Software Membership Others	16,401,527 14,006,320 18,005,713	40,880 - (2,565,669)	13,884 \ 12,743,755 - 11,481,531 07,462) 16,226,215
	48,413,560	1,785,248 (7,188,060) (2,565,669)	6,422 \ 40,451,501

<sup>(\*)</sup> Impairment loss was recognized due to a significant decrease in recoverable amount of membership for the year ended December 31, 2015.

### 16. Other assets

Other assets as of December 31, 2016 and 2015 are as follows (Korean won in thousands):

	December 31, 2016			December 31, 2015	
Receivable from proprietary trading	\	240,257,668	\	28,188,124	
Receivable from trading on consignment		87,922,838		77,661,415	
Other receivable		26,723,951		49,467,371	
Accrued income		80,870,284		38,319,211	
Guarantee deposits		7,074,919		6,016,181	
Unsettled spot exchange		46,659,606		107,821,400	
Unsettled difference		861,411		2,404,554	
Allowance for possible losses		(3,553,525)		(4,696,672)	
Present value discount		(301,750)		(326,738)	
	\	486,515,402	\	304,854,846	
Advanced payment		95,106,092		28,742,687	
Prepaid expenses		22,421,431		22,781,047	
Others		2,098,633		1,752,883	
	\	119,626,156	\	53,276,617	
	\	606,141,558	\	358,131,463	

Changes in allowance for other assets for the years ended December 31, 2016 and 2015 are as follows (Korean won in thousands):

	Year ended December 31, 2016			Year ended December 31, 2015		
Beginning balance	\	4,696,672	\	4,677,667		
Bad debt written-off		(1,340,697)		-		
Recovery of amortized bond		50		-		
Business combination		-		-		
Provision for (reversal of) allowance		197,500		19,005		
	\	3,553,525	\	4,696,672		

# 17. Deposits

Deposits as of December 31, 2016 and 2015 are as follows (Korean won in thousands):

	December 31, 2016	December 31, 2015
Customers' claims on deposits	319,674,249	323,290,631
Guarantee deposit for customers' security trading	-	283,000
Leasehold deposits provided	104,057,434	158,133,067
CMA deposits	14,878,546	47,984,195
Notes payable	2,669,376,108	2,947,535,124
Others	2,042,775	1,333,937
	3,110,029,112	3,478,559,954
Discounted present value	(7,210,292)	(14,689,113)
	3,102,818,820	3,463,870,841

## 18. Financial liabilities fair value through profit or loss

Financial liabilities at fair value through profit or loss as of December 31, 2016 and 2015 are as follows (Korean won in thousands):

	Book value (fair value)			
	December 31, 2016	December 31, 2015		
Financial liabilities held-for-trading:	2010	2013		
Stock	190,198,715	79,764,851		
Bonds:	1,135,551,151	19,704,031		
Government bonds	542,038,960	490,643,123		
Special purpose bonds	-	-30,0-3,123		
Others	828,935	1,291,137		
	1,868,617,761			
Derivatives liabilities held-for-trading:	` 1,000,017,701	571,699,111		
Interest	57,898,596	114,940,846		
Currency	30,734,971	13,332,353		
Stock	8,878,608	2,158,373		
Stock index	358,335	25,167		
Others	5,334,373	4,047,279		
Credit risk adjustments	(141,305)	(166,656)		
Deferred Day1 profit or loss adjustments	92,922	(100,030)		
Doronou Duy r prom or loos aujustments	103,156,500	124 227 262		
Financial liabilities designated at fair value through profit or loss:	` 103,136,300	134,337,362		
Equity linked securities sold (*)	38,669,005	86,618,863		
Derivative linked securities sold (*)	603,015,306	404,798,971		
Others	13,253,118	-		
Credit risk value adjustments	(817,716)	(603,324)		
Deferred day 1 profit or loss adjustments	309,972	(21,684)		
	654,429,685	<b>\</b> 490,792,826		
	2,626,203,946	1,196,829,299		

<sup>(\*)</sup> The Group designates equity linked securities sold and derivative linked securities sold as financial liability at fair value through profit or loss without separating embedded derivative from the host contract.

#### 19. Borrowings

Borrowings as of December 31, 2016 and 2015 are as follows (Korean won in thousands):

	Lender	Interest rate (%)		December 31, 2016		December 31, 2015
Commercial paper	KTB Investment & Securities and others	1.46~1.63	_ \	430.100.000	\	80.000.000
Commercial Paper (ABCP)		1.85~6.00		882,200,000		642,900,000
Asset backed short-term bonds	KTB Investment & Securities and others	1.42~1.83		1,111,500,000		859,100,000
Repurchase agreements sold	Woori Bank and others	1.15~1.60		5,351,618,732		5,324,808,245
Borrowing from KSFC	Korea securities Finance Corporation ("KSFC")	1.35~1.68		625,000,000		100,000,000
Others (*)	Meritz Fire & Marine Insurance Co., Ltd.	5.00~6.50		294,190,141		78,250,000
			\	8,694,608,873	\	7,085,058,245

### 19. Borrowings (cont'd)

(\*) \209,190 million and \78,250 million that subsidiaries borrowed from Meritz Fire & Marine Insurance Co., Ltd. and Meritz Capital Co., Ltd. as of December 31, 2016 and 2015, respectively, are included.

Debentures as of December 31, 2016 and 2015 are as follows (Korean won in thousands):

	Interest rate (%)	Date of issue	Maturity	December 31 2016	December 31, 2015
Unwarranted subordinated debentures	6.20	2011.08.18	2017.02.18	10,100,00	0 \ 10,100,000
Unwarranted subordinated debentures	5.44	2012.06.28	2017.12.28	30,000,00	0 30,000,000
Unwarranted subordinated debentures	5.74	2012.06.28	2019.06.28	70,000,00	70,000,000
Unwarranted subordinated debentures	4.26	2013.03.29	2018.09.29	40,000,00	0 40,000,000
Unwarranted subordinated debentures	4.66	2013.03.29	2020.03.29	50,000,00	50,000,000
Unwarranted subordinated debentures	4.02	2014.11.25	2020.05.25	80,000,00	0 80,000,000
Discount on debenture issued				(143,58	0) (201,400)
				279,956,42	279,898,600

# 20. Provisions

Provisions as of December 31, 2016 and 2015 are as follows (Korean won in thousands):

	December 31, 2016			December 31, 2015		
Reserve for rehabilitation	\	1,364,582	\	1,040,217		
Provision for possible losses from lawsuits		8,821,677		5,825,349		
	\	10,186,259	\	6,865,566		

Changes in provision for the years ended December 31, 2016 and 2015 are as follows (Korean won in thousands):

						Year ended Dec	embe	r 31, 2016				
		Beginning balance	Ac	ddition (*1)		Provision (Reversal)		Use		Transfer		Ending balance
Reserve for rehabilitation Provision for possible	\	1,040,217	\	372,701	\	10,282	\	(58,618)	\	-	\	1,364,582
losses from lawsuits		5,825,349		-		3,711,332		(715,004)				8,821,677
	\	6,865,566	\	372,701	\	3,721,614	\	(773,622)	\		\	10,186,259
						Year ended Dec	embe	r 31, 2015				
		Beginning balance	Ac	ddition (*1)		Provision (Reversal)		Use		Transfer (*2)		Ending balance
Reserve for rehabilitation Provision for possible	\	654,514	\	390,304	\	20,970	\	(25,571)	\	-	\	1,040,217
losses from lawsuits		6,634,366		-		(199,193)		(94,000)		(515,824)		5,825,349
	\	7,288,880	\	390,304	\	(178,223)	\	(119,571)	\	(515,824)	\	6,865,566

- (\*1) This is the amount for tangible assets based on the recognition of provision for restoration cost.
- (\*2) Transfers to allowance for advance for customers in allowance for possible loan losses.

#### 21. Defined benefit liabilities

Defined benefit liabilities as of December 31, 2016 and 2015 are as follows (Korean won in thousands):

	December 31, 2016	December 31, 2015
Present value of defined benefit liabilities Fair value of plan assets	13,103,654 (10,475,505)	10,660,762 (9,154,133)
Defined benefit obligation	2,628,149	1,506,629

# 21. Defined benefit liabilities (cont'd)

Changes in defined benefit liabilities for the years ended December 31, 2016 and 2015 are as follows (Korean won in thousands):

	-	ecember 31, 2016		Year ended ecember 31, 2015
Beginning balance	\	10,660,762	\	10,009,524
Current service cost		4,347,293		4,211,341
Loss on merger		-		237,547
Interest expense		229,454		169,443
Re-measurement:				
Experience adjustments Actuarial changes arising from		(81,152)		118,101
changes in demographic assumptions Actuarial changes arising from		4,092		259,543
changes in financial assumptions		76,285		26,551
Payment		(2,133,080)		(4,385,921)
Other				14,633
Ending balance	\	13,103,654	\	10,660,762

Changes in plan assets for the years ended December 31, 2016 and 2015 are as follows (Korean won in thousands):

	Year ended December 31, 2016			Year ended ecember 31, 2015
Beginning balance	\	9,154,133	\	5,633,608
Expected return on plan assets		194,180		108,001
Re-measurement:				
Interest income from plan assets (Excluding the amount included in the interest income above)		(49,504)		782
Contributions by employer		3,502,939		4,655,481
Payment		(2,326,243)		(1,258,372)
Other				14,633
Ending balance	\	10,475,505	<u>\</u>	9,154,133

Changes in remeasured element of defined benefit liabilities for the years ended December 31, 2016 and 2015 are as follows (Korean won in thousands):

		ear ended cember 31, 2016	Year ended December 31, 2015		
Beginning balance	\	(626,265)	\	(284,582)	
Re-measurement on defined benefit liabilities		775		(404,195)	
Re-measurement on plan assets		(49,504)		782	
Income tax effect		11,729		109,481	
Non-controlling interest				(47,751)	
Ending balance	\	(663,265)	\	(626,265)	

# 21. Defined benefit liabilities (cont'd)

The details of defined benefit liabilities for the years ended December 31, 2016 and 2015 are as follows (Korean won in thousands):

	Year ended December 31, 2016					
Current service cost	\	4,347,293	\	4,448,888		
Interest expense, net		35,274		61,442		
Defined benefit of severance payment	\	4,382,567	\	4,510,330		

The principal actuarial assumptions as of December 31, 2016 and 2015 are as follows:

	December 31, 2016	December 31, 2015
Discount rate	2.25%	2.36%
Expected return ratio on plan assets	2.25%	2.36%
Future ratio of salary increase	2.00%	2.00%
Mortality rate	0.004% ~ 0.067%	0.002% ~ 0.067%

Sensitivity analysis for actuarial assumptions in defined benefit liabilities as of December 31, 2015 is as follows (Korean won in thousands):

	De	ecember 31,		
		2016	1% Increase	1% Decrease
Fluctuation of future salary	\	13,103,654	13,840,779	12,429,185
Fluctuation of discount rate	\	13,103,654	12,438,297	13,844,723

The details of plan assets as of December 31, 2016 and 2015 are as follows (Korean won in thousands):

	De	cember 31, 2016	De	ecember 31, 2015
Deposits, etc.	\	3,842,081	\	2,981,187
Equity		7,266		4,595
Bonds		1,749,906		2,070,500
Collective investment securities		132,427		3,765,541
Financial assets in foreign currency		271,930		65,061
Others		4,471,895		267,249
	\	10,475,505	\	9,154,133

#### 22. Other liabilities

Details of other liabilities as of December 31, 2016 and 2015 are as follows (Korean won in thousands):

		ecember 31, 2016		December 31, 2015
Other financial liabilities:				
Account payable for proprietary trading	\	17,457,194	\	9,626,878
Account payable for trading on consignment		86,986,180		76,110,848
Accounts payables		17,014,540		13,357,937
Accrued expense payables		246,759,356		218,570,448
Accrued dividend		120,235		127,107
Leasehold deposits received		4,071,940		4,115,400
Unsettled spot exchange		46,667,720		107,822,900
Unsettled difference		3,872,015		1,716,067
Redeemable equity for non-controlling				
shareholders		39,912,458		25,573,417
		462,861,638		457,021,002
Other non-financial liabilities:				
Advance receipts		65,222,295		5,579,525
Unearned income		105,561,878		98,196,630
Withholding tax		8,481,018		12,827,565
Others		16,006,933		26,395,663
		195,272,124		142,999,383
	\	658,133,762	\	600,020,385

#### 23. Derivative instruments

The Group uses derivative financial instruments such as interest rate swaps to exchange interest rate cash flows, currency swaps to hedge against exchange rate fluctuations, stock index options or stock index futures to make a profit and other derivative instruments.

Notional amount outstanding of derivatives, derivative assets and liabilities as of December 31, 2016 and 2015 are as follows (Korean won in thousands):

	December 31, 2016		
	Notional amount	Asset	Liability
Exchange-traded derivatives:			
Interest rates:			
Interest fututures	864,493,279	\ 184,821	311,718
Interest option purchased	-		
Interest option sold	291,490	529	-
Currency:			
Currency futures	26,431,212	23,799	16,047
Currency option purchased	-	-	
Currency option sold	-	-	
Stock:			
Stock futures	697,220,362	47,330	17,891
Stock option purchased	91,124,495	8,230,229	-
Stock option sold	89,740,662	-	362,581

# 23. Derivative instruments (cont'd)

	December 31, 2016		
	Notional amount	Asset	Liability
Exchange-traded derivatives:			
Commodity:			
Commodity futures	20,269,656	\ 432,288	1,128,684
Commodity option purchased	21,978,361	1,034,826	-
Commodity option sold	740,968,088		783,773
, .	2,552,517,605		2,620,694
Over-the-counter derivatives:			
Interest rates:	-		
Interest rate swap	100,132,959,000	73,330,260	56,115,575
Interest rate option sold	10,000,000	-	1,371,265
Currency:			
Currency forward	798,406,400	50,124,794	30,677,657
Currency swap	-	-	-
Currency option	-	-	-
Stock:			
Options purchased	99,563,915	21,167,403	-
Options sold	93,047,611	-	8,928,811
Stock swap	1,418,161	-	38,472
Credit:			
CDS	60,000,000	912,259	-
Others:			
Other swap	497,474,569	1,793,165	3,404,025
Options purchased	4,000,000	91,013	-
Options sold	-		
	101,696,869,656	147,418,894	100,535,805
	104,249,387,261	157,372,716	103,156,499
		December 31, 2015	
	Notional amount		Liability
Exchange-traded derivatives:	Notional amount	Asset	Liability
Interest rates:			
	\ 0.004.044.477	074400	107.040
Interest futures	2,201,214,177	274,102	167,340
Interest option purchased	-	-	-
Interest option sold	-	-	-
Currency futures	16,256,701	17.652	996
Currency futures Currency option purchased	10,230,701	17,653	990
Currency option sold	-	-	-
Stock :	_	-	-
Stock . Stock futures	253,455,348		733
Stock rutures Stock option purchased	56,895,124	6,248,877	133
Stock option sold	132,059,103	0,240,077	- 54,276
Glock option soid	132,009,103	-	J4,Z10

# 23. Derivative instruments (cont'd)

	December 31, 2015					
	Notic	onal amount		Asset		Liability
Exchange-traded derivatives:						
Commodity:						
Commodity futures	\	9,305,716	\	144,039	\	220,819
Commodity option purchased		4,341,088		7,032		-
Commodity option sold		79,876,019				1,154,420
	2	2,753,403,276		6,691,703		1,598,584
Over-the-counter derivatives:						
Interest rates:						
Interest rate swap	75	5,812,383,000		111,906,732		113,354,688
Interest rate option sold		10,000,000		-		1,271,169
Currency:						
Currency forward		943,534,631		31,181,516		13,312,350
Currency swap		-		-		-
Currency option		-		-		-
Stock:						
Options purchased		32,814,879		3,595,325		-
Options sold		4,281,009		-		2,102,368
Stock swap		305,844		-		26,896
Credit:						
CDS		60,000,000		2,756,709		-
Others:						
Other swap		70,548,389		5,732,111		2,645,167
Options purchased		24,721,000		119,914		-
Options sold		5,000,000		-		26,140
	76	6,963,588,752		155,292,307		132,738,778
	\ 79	9,716,992,028	\	161,984,010	\	134,337,362

Gain (loss) on valuation of trading derivative financial instruments for the years ended December 31, 2016 and 2015 are as follows (Korean won in thousands):

				Year ended cember 31, 2015	
Exchange-traded derivatives:					
Interest rates	\	(769,013)	\	(2,486,630)	
Currency		(395,491)		68,330	
Stock		192,507		735,685	
Stock index		(7,456,394)		913,113	
Others		3,845,419		(282,715)	
		(4,582,972)		(1,052,217)	
Over-the-counter derivatives:					
Interest rates		15,159,898		2,168,908	
Currency		(2,754,849)		17,947,113	
Stock		12,330,904		(4,216,881)	
Credit		(684,905)		(330,812)	
Others		(1,296,795)	-	5,772,337	
		22,754,253		21,340,665	
	\	18,171,281	\	20,288,448	

### 24. Capital stock

The Group is authorized to issue 1,000,000,000 shares of common stock and has 496,638,534 shares issued and outstanding in the amount of \496,638,534 thousand as of December 31, 2015.

Changes in capital stock for the years ended December 31, 2016 and 2015 are as follows (Korean won in thousands, thousand stocks):

Year ended December 31, 2016	Issued shares	Capital stock
January 1, 2016 Rights issued Issuance of stock upon merger Issuance of capital stock	496,638,534 - - -	\ 496,638,534 - - -
December 31, 2016	496,638,534	<u>\ 496,638,534</u>
Year ended December 31, 2015	Issued shares	Capital stock
January 1, 2015 Rights issued Issuance of stock upon merger Issuance of capital stock	311,782,377 50,000 66,811,951 117,994,206	311,782,377 50,000 66,811,951 117,994,206
December 31, 2015	496,638,534	<b>\</b> 496,638,534

### 25. Other capital

Other capital as of December 31, 2016 and 2015 consist of the following (Korean won in thousands):

		December 31, 2016	[	December 31, 2015
Paid in capital in excess of par value	\	556,127,022	\	556,127,022
Gain on disposal of treasury stock		3,456,342		3,456,342
Others (*)		1,961,311		1,961,311
Treasury stock		(9,711,997)		(9,711,997)
Stock options (*)		1,318,796		583,499
	\	553,151,474	\	552,416,177

(\*) See share-based payment transaction (Note 26)

### 25. Other capital (cont'd)

Changes in other capital for the years ended December 31, 2016 and 2015 are as follows (Korean won in thousands):

		Year ended December 31, 2016		Year ended December 31, 2015
Beginning balance	\	552,416,177	\	111,625,897
Acquisition of treasury stock		-		(3,744)
Allocated expense of share based payment		735,297		583,499
Increase of stock issued upon merger		-		144,828,870
Issuance of capital stock		-		295,366,946
Executed stock options:				
Stock options		-		(20,591)
Issued capital in excess of par value		-		36,091
Costs of the issue				(791)
	\	553,151,474	\	552,416,177

### 26. Share-based payment transaction

The Group granted stock options based on general meeting's special decision. in accordance with commercial law and relative laws.

The details of stock options granted by the Group as of December 31, 2016 are summarized as follows (Korean won and number of shares):

Stock options granted	4,900,000	2,900,000
Settlement date	2005.12.01	2015.03.20
Settlement method	(*1)	(*1)
Exercise price (*5)	₩ 1,310	₩ 4,380
Exercisable period	(*2)	(*3)
Forfeiture period	(*4)	(*4)

- (\*1) Option holder can select either cash-settled method or equity-settled method at the time of exercise.
- (\*2) Exercisable within 10 years after the settlement date.
- (\*3) Exercisable within 4 years after the settlement date.
- (\*4) Stock options will be forfeited, if not exercised, within the execercisable period.
- (\*5) The exercise price of stock option granted in this year was adjusted from ₩4,710 due to issuance of capital stock.

Changes in stock options granted during the years ended December 31, 2016 and 2015 are summarized as follows (number of shares in units):

	Number of stock options
January 1, 2016	2,900,000
Number of options granted	-
Number of options decreased	<u>-</u> _
December 31, 2016	2,900,000

#### 26. Share-based payment transaction (cont'd)

	Number of stock options
January 1, 2015	50,000
Number of options granted	2,900,000
Number of options decreased	(50,000)
December 31, 2015	2,900,000

Fair value of stock option granted by the Group and related information are as follows.

Stock option granted by the Group is evaluated by using binomial model of option pricing model, and major inputs of evaluation model are as follows.

Date (*1)	2015.03.20	2015.08.17
Risk free rate	2.10%	2.12%
Expected exercise period	3.6 years	3.6 years
Estimated share volatility (*2)	19.96%	24.43%
Estimated dividend rate	4.83%	4.90%

- (\*1) The exercise price was adjusted on August 17, 2015 when the issue price was determined. This date is a key variable for calculating the increase in fair value. The increment was ₩310 million which will be treated as an expensed over residual period.
- (\*2) The estimated share volatility is assessed based on equity volatility for the past 5 years.

The Group recorded  $\mbox{$\seta$}3,402,323$  thousand as other capital at the reporting date ( $\mbox{$\seta$}2,667,026$  thousand at the end of the prior year). And the Group has accounted for share-based payment ( $\mbox{$\seta$}735,298$  thousand) as sales and administrative expense for the year ended December 31, 2016.

The Group recognizes an incentive for certain executives as an expense in the period services are received, while it implements the payment method by connecting with daily average stock price and pays in cash. In this cash-settled share-based payment transactions, the Group recognizes the liability incurred and measures the liability at fair value at each reporting date. Any changes in fair value are recognized as profit or loss. For the fair value of liability, Monte Carlo Simulation is utilized by using stock price prediction method.

Details of the cash-settled share-based payments for the year ended December 31, 2016 are as follows (Korean won in thousands):

			Before fair value						
Book value		assessment			ariation of fair value	Intrinsic value of liability			
\	38,527,735	\	39,691,473	\	(1,163,738)	\	38,469,840		

### 27. Accumulated other comprehensive income

Accumulated other comprehensive income as of December 31, 2016 and 2015 consist of the following (Korean won in thousands):

	December 31, December 31, 2016 2015	
Gain on valuation of available-for-sale financial assets:		_
Stock	100,108,534 84,456,201	
Bonds	8,024,308 4,817,402	
Collective investment securities	(5,334,018) 2,326,431	
Commercial paper	212,718 15,332	
Foreign currency securities	381,840 -	
Income tax effect	(24,903,648)(22,096,409)	)
	78,489,734 69,518,957	
Capital change in equity method		_
Capital change in equity method	718,852 -	
Income tax effect	(173,028)	
	545,824 -	_
Gain (loss) on effect of foreign currency translation Gain (loss) on effect of foreign currency		
translation	- 13,877	
Income tax effect	- (3,335)	
	- 10,542	_
Remeasurement of the defined benefit liability:		
Actuarial loss	(825,788) (777,060)	)
Income tax effect	<u>210,276</u> <u>198,547</u>	
	(615,512) (578,513)	)
Non-controlling interest	(587,609) (587,222)	)
	79,007,655 69,538,208	

## 28. Retained earnings

Retained earnings as of December 31, 2016 and 2015 consist of the following (Korean won in thousands):

	December 31, 2016			December 31, 2015
Legal reserve	\	36,979,394	\	26,048,847
Reserve for possible loan losses		12,276,239		17,742,597
Voluntary reserves		42,466,457		42,466,457
Unappropriated retained earnings		657,790,477		513,713,429
	\	749,512,567	\	599,971,330

Changes in unappropriated retained earnings for the years ended December 31, 2016 and 2015 are as follows (Korean won in thousands):

## 28. Retained earnings (cont'd)

	December 31, 2016			December 31, 2015	
Beginning balance	\	513,713,429	\	268,203,020	
Reserve for possible loan losses		5,466,358		(1,886,205)	
Cash dividends		(104,305,466)		(44,309,444)	
Reserve of legal reserve		(10,930,547)		(4,430,944)	
Net income of non-controlling interests		253,846,703		296,137,002	
Ending balance	\	657,790,477	\	513,713,429	

In case total sum of allowance for possible loan losses does not meet the amount prescribed in the Regulations 3-8 on Financial Investment Business, the Group is required to compensate the difference, if any, at the reporting date as a regulatory reserve for possible loan losses. In case the amount of existing regulatory reserve for possible loan losses exceeds the amount needed to be laid aside as at the current period, the difference, if any, shall be reversed. If there is an undisposed deficit, the Group can accumulate reserves for possible loan losses after disposing the deficit.

Changes in regulatory reserve for possible loan losses the years ended December 31, 2016 and 2015 are as follows (Korean won in thousands):

	December 31, 2016			ecember 31, 2015
Appropriated regulatory reserve for possible loan losses Planned provision of regulatory reserve	\	12,276,239	\	17,742,597
for possible loan losses		11,399,590		(5,466,358)
Ending of regulatory reserve for possible loan losses	\	23,675,829	\	12,276,239

Provision of regulatory reserve for possible loan losses and adjusting income after the provision of regulatory reserve for possible loan losses for the years ended December 31, 2016 and 2015 are as follows (Korean won in thousands):

	D	Year ended December 31, 2015		
Net income	\	253,846,703	\	287,336,735
Planned provision of regulatory reserve for possible loan losses		(11,399,590)		5,466,358
Adjusted income after provision of regulatory reserve for possible loan losses (*) Earnings per share	\	242,447,113 535	\	292,803,093 803

<sup>(\*)</sup> Adjusted income after provision of regulatory reserve for possible loan losses is hypothetical amount not accorded with KIFRS. The amount was calculated by adding (deducting) provision from net income.

### 29. Net fees and commission income

Net fees and commission income for the years ended December 31, 2016 and 2015 are as follows (Korean won in thousands):

Fees and commission income:		Year ended ecember 31, 2016	-	ear ended ecember 31, 2015
Prokorago commissions	\	72,990,925	\	93,233,704
Brokerage commissions Underwriting commissions Brokerage commissions	·	26,514,261	•	24,851,328
on collective investment securities  Management fees on wrap account		4,580,330		4,940,264
and asset management		1,357,714		1,634,154
Finance commissions		135,102,720		157,460,226
Fees on trust accounts		3,116,893		4,517,970
Commissions on CMA		107,901		130,577
Others		99,503,096		59,972,719
		343,273,840	;	346,740,942
Fees and commission expense:				
Trading commissions Lending and borrowing transaction		(5,742,417)		(6,960,931)
commissions		(10,365,901)		(6,736,742)
Others		(13,584,703)		(7,594,728)
		(29,693,021)		(21,292,401)
		313,580,819	\;	325,448,541

### 30. Gain (loss) on financial assets and liabilities

Gain (loss) on financial assets does not include interest income and dividends income. Interest income and dividends income are disclosed separately in Notes 31 and 33, respectively

Gain (loss) on financial assets and liabilities held-for-trading for the years ended December 31, 2016 and 2015 are as follows (Korean won in thousands):

	Year ended December 31, 2016									
				Loss on						Net gain
	Gai	n on disposal		disposal	Ga	ain on valuation	Loss on valuation			(loss)
Financial assets held-for-trading:										
Stock	\	70,566,564	\	(68,273,756)	\	6,222,958	\	(3,855,013)	\	4,660,753
Bonds		138,940,350		(182,919,134)		10,340,680		(39,172,280)		(72,810,384)
Collective investment										
securities		63,461,085		(62,438,398)		3,726,265		(2,309,550)		2,439,402
Commercial paper		25,845,397		(1,635,064)		450,432		(95,352)		24,565,413
Asset backed										
short-term bonds		13,751,541		(81,152)		78,198				13,748,587
		312,564,937		(315,347,504)		20,818,533		(45,432,195)		(27,396,229)
Financial liabilities held-for-trading:										
Securities sold		49,925,948		(56,596,008)		5,393,119		(2,794,032)		(4,070,973)
Bonds sold		80,110,205		(44,768,525)		3,441,434		(2,635,957)		36,147,157
Collective investment										
securities sold		98,026		(57,064)				(12,133)		28,829
		130,134,179		(101,421,597)		8,834,553		(5,442,122)		32,105,013
	\	442,699,116	\	(416,769,101)	<u>\</u>	29,653,086	<u>\</u>	(50,874,317)	\	4,708,784

# 30. Gain (loss) on financial assets and liabilities (cont'd)

	Year ended December 31, 2015									
	Gai	n on disposal	Loss on disposal Gain on valuation Loss on valuation			Net gain (loss)				
Financial assets held-for-trading:										
Stock Bonds	\	64,945,746 120,448,364	\	(45,306,762) (100,920,000)	\	3,526,076 3,691,372	\	(5,402,113) (4,264,163)	\	17,762,947 18,955,573
Collective investment securities		54,505,050		(48,802,472)		1,855,580		(2,059,669)		5,498,489
Commercial paper Asset backed		28,891,633		(1,300,463)		924,380		(57,778)		28,457,772
short-term bonds		10,158,526		(70,771)		36,864				10,124,619
		278,949,319		(196,400,468)		10,034,272		(11,783,723)		80,799,400
Financial liabilities held-for-trading:										
Securities sold		76,682,509		(45,509,360)		3,729,924		(2,424,488)		32,478,585
Bonds sold		19,648,245		(43,985,175)		28,166		(2,535,415)		(26,844,179)
Collective investment										
securities sold		138,121		(1,142)		26,819				163,798
		96,468,875		(89,495,677)		3,784,909		(4,959,903)		5,798,204
	\	375,418,194	\	(285,896,145)	\	13,819,181	\	(16,743,626)	\	86,597,604

Gain (loss) on financial assets and liabilities designated at fair value through profit or loss for the years ended December 31, 2016 and 2015 are as follows (Korean won in thousands):

		Year ended December 31, 2016						
	Gain on		Loss on		Gain on	Loss on	Net gain	
	disposal		Disposal		valuation	valuation	(loss)	
Financial assets designated at fair value through profit or loss:								
Equity linked securities Derivatives linked	35,388	\	(201)	\	616,795	_	651,982	
securities Reserve for claims of customers' deposits	40,268		(1,688)		-	-	38,580	
(trust)	-		-		4,602,561	-	4,602,561	
Others	1,177,584		-		466,679	(6,397,183)	(4,752,920)	
	1,253,240		(1,889)		5,686,035	(6,397,183)	540,203	
Financial assets designated at fair value through profit or loss: Equity linked securities								
sold Derivative linked	26,195		(1,230,853)		13,014	(1,186,711)	(2,378,355)	
securities sold	3,219		(5,193,876)		509,257	(6,821,513)	(11,502,913)	
Others	-		-		-	(601,635)	(601,635)	
	29,414		(6,424,729)		522,271	(8,609,859)	(14,482,903)	
	1,282,654	\	(6,426,618)	\	6,208,306	\ (15,007,042)	(13,942,700)	

# 30. Gain (loss) on financial assets and liabilities (cont'd)

•	Year ended December 31, 2015						
	Gain on	Loss on	Gain on	Loss on	Net gain		
_	disposal	disposal	valuation	valuation	(loss)		
Financial assets designated at fair value through profit or loss:							
Equity linked securities Derivatives linked	75,736	_	7,852	(571,828)	(488,240)		
securities Reserve for claims of customers' deposits	71,796	(5,910)	5,724	(218,873)	(147,263)		
(trust)	-	-	4,304,673	-	4,304,673		
Others	<u>-</u>	(66,692)	2,639,864	(9,930)	2,563,242		
	147,532	(72,602)	6,958,113	(800,631)	6,232,412		
Financial assets designated at fair value through profit or loss: Equity linked securities							
sold Derivative linked	10,299	(989,399)	1,025,198	(486,154)	(440,056)		
securities sold	82,084	(4,999,802)	717,848	(1,664,353)	(5,864,223)		
	92,383	(5,989,201)	1,743,046	(2,150,507)	(6,304,279)		
-	> 239,915	(6,061,803)	8,701,159	(2,951,138)	(71,867)		

Gain (loss) on available-for-sale financial assets for the years ended December 31, 2016 and 2015 are as follows (Korean won in thousands):

	Year ended December 31, 2016							
	Gain on disposal		Loss on disposal		Impairment loss			Net gain (loss)
Stock	\	4,981,670	\	(9,777,396)	\	(1,405,897)	\	(6,201,623)
Bonds		7,763,618		(1,247,976)		-		6,515,642
Collective investment securities		5,928,751		(904,483)		(293)		5,023,975
Others		24,537						24,537
	\	18,698,576	\	(11,929,855)	\	(1,406,190)	\	5,362,531
			Ye	ar ended Dec	eml	per 31, 2015		
		Gain on disposal		Loss on disposal	I	mpairment loss		Net gain (loss)
Stock	\	68,616,066	\	(131,808)	\	(666,096)	\	67,818,162
Bonds		107,094		-		(509,518)		(402,424)
Collective investment securities		1,262,495		(1,063,602)		(21)		198,872
Others		3,228,844		(253,487)				2,975,357
	\	73,214,499	\	(1,448,897)	\	(1,175,635)	\	70,589,967

# 30. Gain (loss) on financial assets and liabilities (cont'd)

Gain (loss) on other financial liabilities for the years ended December 31, 2016 and 2015 are as follows (Korean won in thousands):

	Year ended December 31, 2016							
	Loss on redemption	1		Gain on valuation		Loss on valuation	Net	gain (loss)
Debentures	\	-	\	-	\	-	\	-
Other financial liabilities				6,023		(6)		6,017
	\		\	6,023	\	(6)	\	6,017
			Ye	ar ended Ded	em	ber 31, 2015		
	Loss on redemption	1		Gain on valuation		Loss on valuation	Net	gain (loss)
Debentures	\	-	\	-	\	-	\	_
Other financial liabilities				7				7
	\		\	7	\	-	\	7

Gain (loss) on financial derivatives for the years ended December 31, 2016 and 2015 are as follows (Korean won in thousands):

				Year	ended	l December 31,	2016			
	G	ain on disposal/ redemption	Lo	oss on disposal/ redemption	Gai	n on valuation	Loss	s on valuation		Net gain (loss)
Exchange-traded derivatives:										
Futures Option Over-the-counter	\	295,217,058 27,508,549	\	(255,870,255) (31,083,585)	\	2,398,898 5,098,526	\	(11,289,735) (790,661)	\	30,455,966 732,829
derivatives:		2,141,711,299		(2,133,241,583)		88,230,467		(65,476,214)		31,223,969
	\	2,464,436,906	\	(2,420,195,423)	\	95,727,891	\	(77,556,610)	\	62,412,764
				Year	ended	December 31,	2015			
	G	ain on disposal/	Lo	oss on disposal/						Net gain
		redemption		redemption	Gai	n on valuation	Loss	s on valuation		(loss)
Exchange-traded derivatives:										
Futures Option Over-the-counter	\	200,630,593 120,130,674	\	(202,422,591) (112,716,023)	\	3,864,725 673,693	\	(4,972,108) (618,525)	\	(2,899,381) 7,469,819
derivatives: Stock warrant securities		700 440								700 440
Others		728,443 1,181,939,868		(1,197,571,556)		49,531,958		(28,191,293)		728,443 5,708,977
	\	1,503,429,578	\	(1,512,710,170)	\	54,070,376	\	(33,781,926)	\	11,007,858

### 31. Net interest income

Net interest income for the years ended December 31, 2016 and 2015 are as follows (Korean won in thousands):

	Dec	Year ended cember 31, 2016	Year ended December 31, 2015		
Interest income:					
Cash and due from banks	\	10,244,916	\	13,527,494	
Held-for-trading financial assets		177,297,346		174,130,157	
Available-for-sale financial assets		13,828,936		6,776,604	
Loans, etc.		261,808,390		226,503,550	
CMA		1,144,551		1,568,572	
Others		14,055,617		16,389,948	
		478,379,756		438,896,325	
Interest expense:					
Deposits		(46,037,985)		(59,394,153)	
Borrowings		(162,331,157)		(118,931,096)	
Bonds		(13,705,247)		(13,565,703)	
Others		(20,816,815)		(31,248,398)	
		(242,891,204)		(223,139,350)	
	\	235,488,552	\	215,756,975	

# 32. Selling and administrative expense

Selling and administrative expenses for the years ended December 31, 2016 and 2015 are as follows (Korean won in thousands):

	Year ended December 31, 2016			Year ended ecember 31, 2015
Payroll expenses:				
Salary expenses	\	193,998,949	\	267,492,891
Post-employment benefits (DB)		4,382,567		4,510,330
Post-employment benefits (DC)		3,224,102		2,880,284
Early retirement benefits		2,873,139		7,952,981
Compensation Expenses Associated with Stock Option		735,298		583,499
		205,214,055		283,419,985
General and administrative expenses:				
Employee benefits		25,601,303		21,751,682
Electronic data processing expenses		8,153,227		10,888,701
Rental expense		7,213,848		6,517,858
Commission expense		20,014,832		16,056,755
Entertainment expenses		8,139,706		8,855,464
Advertising expense		1,330,825		1,117,098
Depreciation		5,891,509		5,956,023
Training expenses		128,897		166,567
Amortization		7,109,290		7,188,060
Taxes and dues		17,947,584		20,352,952

# 32. Selling and administrative expense (cont'd)

		ear ended cember 31, 2016		Year ended ecember 31, 2015
General and administrative expenses:				
Others	\	12,898,647	\	12,951,111
		114,429,668		111,802,271
		319,643,723	\	395,222,256

# 33. Other operating income (expense)

Other operating income (expense) for the years ended December 31, 2016 and 2015 are as follows (Korean won in thousands):

	Year ended December 31, 2016			ear ended ecember 31, 2015
Other operating income:				
Dividends on financial assets held for trading Dividends on available-for-sale financial assets Reversal of impairment loss Reversal of other provisions Reversal of credit risk adjustments	\	4,799,610 8,675,092 - 18,088 214,981	\	8,194,022 11,367,536 1,671 199,193
Reversal of deferred day 1 profit or loss adjustments		5,806,488		37,979,319
Others		1,537,198		11,872,098
Other operating expenses:		21,051,457		69,613,839
Provision for other doubtful accounts		(197,500)		(20,677)
Provision for other provisions		(3,711,332)		(054.000)
Provision for credit risk adjustments  Amortization of deferred day 1 profit or loss		(143,671)		(354,032)
adjustments		(1,284,265)		(1,157,295)
Others		(35,644)		(8,780,625)
		(5,372,412)		(10,312,629)
	\	15,679,045	\	59,301,210

# 34. Non-operating income (expense)

Non-operating income (expense) for the years ended December 31, 2016 and 2015 are as follows (Korean won in thousands):

	Year ended December 31, 2016			ear ended cember 31, 2015
Non-operating income:				
Gain on disposal property and equipment	\	64,988	\	-
Rental fee income		1,525,158		1,480,426
Gain on disposal subsidiaries and associates		973,201		1,296,676
Share of earnings from investments in associates and joint ventures		4,250,794		-
Recovery of impairment loss on investments in subsidiaries and associates, joint ventures		47,965		-
Others (*)		1,768,409		1,456,487
		8,630,515		4,233,589
Non-operating expense:				
Loss on disposal property and equipment		(300,236)		(24,638)
Loss on disposal investment properties		(85,597)		-
Loss on disposal intangible assets		(124,100)		-
Impairment losses on intangible assets		-		(2,068)
Share of losses from investments in associates and Joint ventures		(1,797,774)		-
Loss on disposal subsidiaries and associates		(97,785)		(34,243)
Impairment losses on subsidiaries and associates		(13,303)		(2,565,669)
Others		(464,834)		(238,489)
		(2,883,629)		(2,865,107)
	\	5,746,886	\	1,368,482

## 35. Income taxes

The major components of income tax expense for the years ended December 31, 2016 and 2015 are as follows (Korean won in thousands):

		ear ended cember 31, 2016		Year ended ecember 31, 2015
Current income taxes	₩	84,989,417	₩	151,109,937
Adjustments of prior year's income tax		(2,107,434)		389,310
Changes in deferred income taxes due to temporary differences Current and deferred income taxes recognized directly to equity:		(1,160,515)		(50,715,598)
Gain (loss) on valuation of available-for-sale				
financial assets		(2,807,239)		18,262,116
Equity method capital change		(173,028)		
Actuarial gain		-		-
Loss (gain) on effect of foreign currency translation		3,226		(3,344)
Capital surplus & adjustments		11,729		109,481
Income tax expense	₩	78,756,156	₩	119,151,902

#### 35. Income taxes (cont'd)

Details of the relationship between income tax expense and income before income taxes for the years ended December 31, 2016 and 2015 are as follows (Korean won in thousands):

		Year ended December 31, 2016	_	Year ended ecember 31, 2015
Income before income taxes	₩	332,602,859	₩	406,488,637
Income taxes at statutory tax rate (*1)		80,027,892		97,908,250
Adjustments:				
Non-deductible expenses and others (*2)		1,879,610		24,589,457
Non-taxable income and others (*2)		(166,926)		(7,889,652)
Income tax on undistributed corporate earnings		(1,232,644)		4,510,910
Adjustments of prior year's income tax		(2,107,434)		389,310
Others		355,658		(356,373)
Income tax expense	₩	78,756,156	₩	119,151,902
Effective income tax rate		23.68%		29.31%

- (\*1) Income tax rate of 11% is applied for income below ₩200 million and 22% for income above ₩200 million and below ₩20 billion and 24.2% for income above ₩20 billion for the years ended December 31, 2016 and 2015.
- (\*2) Income tax on capital gains of IM Investment & Securities Co., Ltd., the acquiree as a result of the merger of the Company and IM Investment & Securities Co., Ltd., and the effect of exclusion from taxable income for fictitional dividend of the acquiree's shareholders are reflected on non-deductible expenses and non-taxable income in the adjustments of 2015.

The details of tax liabilities as of December 31, 2016 and 2015 are as follows (Korean won in thousands):

	Year ended December 31, 2016		Pear ended December 31, 2015	
Deferred income tax assets	₩	65,029,381	₩	45,992,366
Income tax assets		65,029,381		45,992,366
Current income tax liabilities		14,966,779		76,054,817
Income tax liabilities		14,966,779		76,054,817

Temporary differences and deferred income tax assets (liabilities) as of December 31, 2016 and 2015 are as follows (Korean won in thousands):

	De	December 31, 2016		December 31, 2015	
Finance lease receivables	₩	(1,064,695)	₩	(2,905,021)	
Gain on valuation of				,	
financial liabilities held-for-trading		(816,558)		283,173	
Gain (loss) on valuation of					
financial assets held-for-trading		5,922,405		462,414	
Gain (loss) on valuation of					
financial assets designated at fair value					
through profit or loss		1,414,051		(584,755)	
Gain on valuation of					
derivatives-combined securities sold		1,446,002		(127,760)	
Gain (loss) on valuation of					
derivatives-combined securities		(18,533)		327,899	
Gain on valuation of derivative instruments		(11,454,651)		(3,154,585)	

# 35. Income taxes (cont'd)

	December 31, 2016		December 31, 2015	
Deferred loan fee	₩	3,388,951	₩	2,529,583
Deferred day 1 profit or loss		522,253		(193,378)
Gain (loss) on foreign transactions		(554,313)		(89,870)
Allowance for loan losses		272,728		586,997
Lease		-		5,481
Withdrawal of sales transaction		(196,765)		(197,010)
Available-for-sale financial assets		(17,733,810)		(16,859,377)
Accrued income		(5,589,979)		(4,610,844)
Accrued expenses		23,974,317		9,143,653
Credit risk-adjusted		(82,858)		(65,776)
Property and equipment, intangible assets		(7,657,616)		(6,952,934)
Subsidiaries and associates		4,420,396		5,053,812
Allowance accounts		2,451,832		1,660,735
Retirement pension premium		(2,521,454)		(1,971,574)
Defined benefit liabilities		3,154,049		2,465,477
Treasury stock		60,277,411		60,352,539
Others		5,476,218		833,487
		65,029,381		45,992,366
Deferred income tax assets	₩	112,720,613	₩	83,705,250
Deferred income tax liabilities	₩	(47,691,232)	₩	(37,712,884)

Changes in the temporary differences and deferred income tax assets (liabilities) for the years ended December 31, 2016 and 2015 are as follows (Korean won in thousands):

	Year ended December 31, 2016					
	Beginning					
		balance (*)		Changes	_En	ding balance
Financial lease receivables	₩	(12,054,027)	₩	7,630,700	₩	(4,423,327)
Gain (loss) on valuation of		,				,
financial liabilities held-for-trading		1,174,993		(4,567,423)		(3,392,430)
Gain (loss) on valuation of				,		,
financial assets held-for-trading		1,918,730		22,686,195		24,604,925
Gain (loss) on valuation of						
financial assets designated at						
fair value through profit or loss		(2,699,630)		8,574,376		5,874,746
Gain (loss) on valuation of						
derivatives-combined						
securities sold		(530,126)		6,537,613		6,007,487
Gain (loss) on valuation of				// /\		()
derivatives-combined securities		1,360,577		(1,437,573)		(76,996)
Gain (loss) on valuation of		(40,000,500)		(0.4.400.047)		(47 500 040)
derivative instruments		(13,089,566)		(34,499,347)		(47,588,913)
Deferred loan fee		10,496,193		3,583,371		14,079,564
Deferred day 1 profit or loss		(802,398)		2,972,123		2,169,725
Gain (loss) on foreign transactions		(285,403)		(2,017,519)		(2,302,922)
Allowance for loan losses Lease		2,435,671		(1,302,610)		1,133,061
Withdrawal of sales transaction		22,742 (817,468)		(22,742)		(817,468)
Available-for-sale financial assets		(67,784,890)		(5,891,084)		(73,675,974)
Accrued income		(19,132,134)		(4,091,708)		(23,223,842)
Accrued expenses		110,847,814		(11,245,336)		99,602,478
Credit risk-adjusted		(272,928)		(71,309)		(344,237)
Property and equipment,		(212,020)		(11,000)		(011,201)
intangible assets		(29,538,586)		(2,275,356)		(31,813,942)
-		,		,		, , ,

# 35. Income taxes (cont'd)

	Year ended December 31, 2016							
		Beginning balance (*)		Changes	Er	nding balance		
Subsidiaries and associates Allowance accounts Retirement pension premium Defined benefit liabilities Treasury stock Others	₩	20,968,559 6,865,566 (8,180,804) 10,230,193 250,425,472 3,457,506	₩	(2,603,805) 3,320,692 (2,294,701) 2,873,461 - 19,293,706	₩	18,364,754 10,186,258 (10,475,505) 13,103,654 250,425,472 22,751,212		
	₩	265,016,056	₩	5,151,724	₩	270,167,780		
Deferred income tax liabilities	₩	63,868,867	₩	1,160,514	₩	65,029,381		
		Year e	ende	d December 31	, 20°	15		
		Beginning balance (*)		Changes	Er	Ending balance		
Financial lease receivables Gain (loss) on valuation of	₩	(17,963,986)	₩	5,909,959	₩	(12,054,027)		
financial liabilities held-for-trading		1,263,872		(88,879)		1,174,993		
Gain (loss) on valuation of financial assets held-for-trading Gain (loss) on valuation of financial assets designated at		(6,161,818)		8,080,548		1,918,730		
fair value through profit or loss Gain (loss) on valuation of derivatives-combined		(6,059)		(2,420,310)		(2,426,369)		
securities sold		641,545		(1,171,671)		(530,126)		
Gain (loss) on valuation of derivatives-combined securities Gain (loss) on valuation of		785,239		575,338		1,360,577		
derivative instruments Deferred loan fee Deferred day 1 profit or loss Gain (loss) on foreign transactions Allowance for loan losses Lease Withdrawal of sales transaction		7,805,593 5,038,624 (694,617) (96,959) 3,060,444 31,125 (816,162)		(20,895,159) 5,457,569 (107,781) (275,944) (624,773) (8,383) (1,306)		(13,089,566) 10,496,193 (802,398) (372,903) 2,435,671 22,742 (817,468)		
Available-for-sale financial assets Accrued income Accrued expenses Credit risk-adjusted		(221,798,375) (26,080,405) 35,775,383 (626,960)		151,842,452 6,948,271 2,165,087 354,032		(69,955,923) (19,132,134) 37,940,470 (272,928)		
Property and equipment, intangible assets Subsidiaries and associates Allowance accounts Retirement pension premium Defined benefit liabilities Treasury stock Others		(42,724,690) 24,888,451 7,314,332 (5,019,350) 10,953,149 185,964,125 18,483,167		13,874,342 (3,918,263) (423,313) (3,161,454) (722,956) 64,461,347 (15,024,716)		(28,850,348) 20,970,188 6,891,019 (8,180,804) 10,230,193 250,425,472 3,458,451		
	₩	(19,984,332)	₩	210,824,037	₩	190,839,705		
Deferred income tax liabilities  (*) Reginning temporary difference and deferred in	₩	(4,723,232)	₩	50,715,598	₩	45,992,366		

<sup>(\*)</sup> Beginning temporary difference and deferred income taxes and calculated reflecting the changes in the final income tax return, merger, etc.

#### 35. Income taxes (cont'd)

Deferred income tax assets (liabilities) are measured at the average tax rates that are expected to apply in the year when the related temporary differences are expected to reverse, based on tax rates (and tax laws) that have been enacted at the reporting date.

## 36. Earnings per share

The Group presents basic earnings per share attributable to its common stock holders in the statement of comprehensive income. Basic earnings per share amounts are calculated by dividing the net profit for the period attributable to common stock holders of the parent by the weighted average number of common shares outstanding during the period.

The Group presents basic earnings per share attributable to its common stock holders in the statement of comprehensive income. Basic earnings per share amounts are calculated by dividing the net profit for the period attributable to common stock holders of the parent by the weighted average number of common shares outstanding during the period.

Basic earnings per share amounts for the years ended December 31, 2016 and 2015 are as follows (Korean won and shares):

	Year ended December 31, 2016	Year ended December 31, 2015	
Net income attributable to the common stock holder of the parent	₩ 253,846,703,366	₩ 296,137,002,455	
Weighted average number of common stock outstanding (*)	453,502,028	364,583,142	
Basic earnings per share	560	812	

(\*) Weighted average number of common stock outstanding is calculated by deducting treasury stock from total issued stock.

Diluted earnings per share amounts for the years ended December 31, 2016 and 2015 are as follows (Korean won):

	Year ended December 31, 2016	Year ended December 31, 2015
Net income attributable to common stock holders Diluted net income attributable to common stock holders Weighted average number of common stock	₩ 253,846,703,366 253,846,703,366	₩ 296,137,002,455 296,137,002,455
outstanding (*) Diluted earnings per share	453,502,028 560	<u>364,602,520</u> 812

(\*) The amount is calculated by reflecting the dilution effect. The number of potential common stock of the current and prior period which has dilution effect is 19,378 and 26,963 shares for the years ended December 31, 2016 and 2015, respectively.

# 37. Assets and liabilities denominated in foreign currencies

Significant assets and liabilities denominated in foreign currencies as of December 31, 2016 and 2015 are as follows (Korean won in thousands or USD, JPY, EUR, HKD, NOK, CNH, AUD, GBP, CAD, MYR, BRL):

		December 31, 2016	;	
		Amount in foreign		Korean won
	Currency	currency in unit		equivalent
Assets in foreign currencies:				
Cash and due from banks	USD	26,402,834	₩	31,907,825
	EUR	624,756		791,941
	HKD	349,417		54,450
	JPY	224,410,840		2,326,714
	GBP	252,191		373,286
	CNH	9,189		1,592
	AUD	35,675		31,110
	NOK	2		1
	CAD	44,655		39,954
	MYR	21,300		5,741
	BRL	21,577		8,013
Financial assets at fair value		0.5.000.004		
through profit or loss	USD	95,886,924		115,879,348
	JPY	100,000,000		1,036,810
Available-for-sale financial assets	USD	8,880,000		10,731,480
Investments in associates	USD	-		-
Other assets	USD	44,729,089		54,055,104
	JPY	168,329		1,745
			₩	217,245,114
Liabilities in foreign currency:				
Deposits	USD	5,395,809	₩	6,520,836
Financial liabilities at fair value				
through profit or loss	USD	48,454,106		58,556,787
Other liabilities	USD	19,600,000		23,686,600
			₩	88,764,223
		D		
		December 31, 2015 Amount in foreign		Korean won
	Currency	currency in unit	'	equivalent
Assets in foreign currencies:				•
Cash and due from banks	USD	11,438,296	₩	13,405,683
odon and dde nom banks	EUR	280,215		358,824
	HKD	331,649		50,149
	JPY	1,714,130		16,662
	GBP	133		231
	CNH	549		98
	AUD	75		64
	NOK	2		1
Financial assets at fair value	NON	2		•
through profit or loss	USD	831,200		974,166

## 37. Assets and liabilities denominated in foreign currencies (cont'd)

Investments in associates Other assets	USD USD	158,839 56,000,000		186,159 65,632,000
		_	₩	80,624,037
Liabilities in foreign currency:		_		
Deposits	USD	91,399	₩	107,120
Other liabilities	USD	36,004,126		42,196,835
		_	₩	42,303,955

### 38. Pledged assets

Restricted balances in due from banks as of December 31, 2016 and 2015 are summarized as follows (Korean won in thousands):

	Counterparty	Others information	C	ecember 31, 2016	D	ecember 31, 2015
Cash and Deposits: Restricted due from financial institutions	KB Bank and	Deposits for checking	\	1-1-0	_	400.000
Long-term deposits	others Woori Bank and others	accounts Pledged for settlement	`	174,500 2,000,000	\	129,000 2,000,000
Reserve for claims of customers' deposits	Korea Securities Finance Corporation					
Guarantee deposits for loan transaction	("KSFC") Korea Securities Depository and others	(*)		38,410,380 62,101,200		37,000,000 9,059,110
Guarantee deposits for trading futures and options (brokerage)	KRX			37,100,000		38,723,763
Financial asset at fair value through profit or loss: Reserve for claims of		40				
customers' deposits(Trust) Available-for-sale financial assets:	KSFC	(*)		270,866,951		295,920,714
Collective fund for default loss	KRX			8,314,005		6,262,079
			<u>\</u>	418,967,036	\	389,094,666

<sup>(\*)</sup> Pursuant to the Law on Capital Market and Financial Investment Services and related regulations, the Group is required to place a deposit after daily calculation in Korea Securities Finance Corporation ("KSFC") as a reserve against customers' deposits for the trading of stocks, derivatives and for other purposes. These deposits should exceed the amount which is calculated by deducting cash commission guarantee from total customers' deposit.

Details of securities pledged as collateral for operating activities including derivative transactions, loan transactions and borrowings as of the reporting date are as follows (Korean won in thousands):

## 38. Pledged assets (cont'd)

		December 31, 2016
District	Description of	Diadred and the
Pledged to	pledged asset	Pledged amount(*) Pledged for
KRX	Bonds ETF beneficiary	Derivative  ₩ 66,616,598 transaction Lending and
KSD & KSFC	certificate, Stocks, CP, Bonds	borrowing 2,537,054,577 transactions Bonds
KSD and others	Bonds	under repurchase 5,639,142,725 agreements Collateral of
KSD	Stocks, Bonds	139,087,588 borrowings
KSFC and others	Bonds	27,274,899 Payment fund
RREEF SPEZIAL INVEST GmbH	Bonds	1,899,642 Withholdings
TATELL OF LEW LEW VEGT GRADE	Donao	
		₩ 8,411,076,029
		December 31, 2015
	Description of	
Pledged to	pledged asset	Pledged amount(*) Pledged for
KRX	Bonds ETF beneficiary	W 50,546,133 transaction Lending and
KSD & KSFC	certificate, Stocks, CP, Bonds	borrowing 950,549,189 transactions Bonds
KSD and others KSFC and others RREEF SPEZIAL INVEST GmbH	Bonds Bonds Bonds	under repurchase 5,599,768,082 agreements 25,736,717 Payment fund 1,884,010 Withholdings
		₩ 6,628,484,131

<sup>(\*)</sup> The amount excludes restricted balances and beneficial interest in trust, calculated from the closing price of collateral or based on External Credit Assessment Institution's valuation. The collateral is included in borrowing securities.

## 39. Guarantees and commitments

#### **Credit line facilities**

The Group has the following agreements with several banks as of December 31, 2015 (Korean won in thousands, USD):

Agreement	Bank	Currency	Maximum limit	Maturity date
Intraday overdraft	Woori Bank	KRW	10,000,000	2017.09.07
	Woori Bank	KRW	50,000,000	2017.09.07
	Hana Bank	KRW	10,000,000	2017.10.27
	Shinhan Bank	KRW	20,000,000	2017.09.05
	KB Bank	KRW	10,000,000	2017.11.24
Overdraft	KB Bank	KRW	5,000,000	2017.07.07
	Daegoo Bank	KRW	5,000,000	2017.06.29
Note discounted	KSFC	KRW	170,000,000	2019.10.31
			Subscription	
			amount	
Note discounted	KSFC	-	within the limits	2019.10.31
Agency operating funds	KSFC	KRW	200,000,000	2020.03.02
			Deposit within	
Agency operating funds (trust)	KSFC	-	operational limits	2020.03.02
Financial capital distribution	KSFC	KRW	150,000,000	2017.03.29
Mortgage financing	KSFC	KRW	400,000,000	2020.04.30

Agreement	Bank	Currency	Maximum limit	Maturity date
Call half the day	KSFC	KRW	200,000,000	2020.03.03
Financial bond dealer	KSFC	KRW	500,000,000	2020.03.31

#### Lawsuit

The Group is involved in 14 lawsuits (plaintiff: 11 cases, defendant: 3 cases) with total claim amounting \29,154 million. The Group provided provisions estimated from previous experience in similar lawsuits (balance of provisions: \5,825 million) as of December 31, 2015 (Note 20).

#### **Purchase Agreement**

The Group's purchase agreements as of December 31, 2016 and 2015 are as follows (Korean won in thousands):

	December 31, 2016		
	Maximum limit	Balance	
ABCP purchase commitment (*1)	> 294,370,000	> 294,370,000	
Conditional loan commitment	-	-	
Loan commitment	1,078,990,000	687,723,645	
Mortgage loan commitment (*2)	1,985,868,000	1,985,868,000	
	3,359,228,000	2,967,961,645	
	Decembe	er 31, 2015	
	Maximum limit	Balance	
ABCP purchase commitment (*1)	116,059,600	116,059,600	
Conditional loan commitment	72,000,000	72,000,000	
Loan commitment	802,332,263	517,929,921	
Mortgage loan commitment (*2)	2,603,859,784	2,603,859,784	
	3,594,251,647	3,309,849,305	

- (\*1) The Group purchased residual commercial papers that are issued but not sold through liquidity-providing commitments. Liquidity-providing commitment can be exercised when the credit ratings of underlying assets of commercial papers and financial institute are not below the required rating.
- (\*2) It is contractual amounts of secured loans executed by the Group according to mortgage loan commitment as of December 31, 2016 and 2015 and mortgage loan commitment between consolidated entities is excluded.

Details of the Group's Details of agreement as of December 31, 2016 are as follows (Korean won in thousands):

,		December 3	31, 2016
	Opponent	Maximum limit	Balance
	SINCHON BEST 1ST INC. SINCHON BEST 2ND INC.		
ABCP purchase commitment	SINCHON BEST 4TH INC.	130,000,000	130,000,000
	ILD UP 19TH Co., Ltd.	36,000,000	36,000,000
	Swallow One Co., Ltd	30,570,000	30,570,000
	MEEGEREN5 Co., Ltd	22,400,000	22,400,000
	MS PREMIUM 1ST Co., Ltd.	20,400,000	20,400,000
	M FUTURE RIO 1ST Co., Ltd.	55,000,000	55,000,000
	_	294,370,000	294,370,000
Limit loan	Nike, INC	36,500,000	36,500,000
	Yoon Jeong-Kyu Oriental Press Association	31,190,000	14,760,000
	Co., Ltd	30,500,000	2,000,000

Limit loan

	December 31, 2016		
Opponent	Maximum limit	Balance	
GEOJE BIG	30,000,000	6,000,000	
Angel	30,000,000	19,400,000	
Engineering and Construction	20,000,000	6 200 957	
Co., Ltd Delta Co., Ltd.	30,000,000	6,299,857 10,630,000	
Yoo world	30,000,000 30,000,000	25,000,000	
JOYCREDIT. Co., Ltd	30,000,000	8,816,000	
Chaewoo	30,000,000	30,000,000	
Coreana corporation	25,000,000	1,543,000	
SD Dream House Co., Ltd.	21,500,000	1,434,000	
L Jeonghoom Jisan	21,000,000	19,880,000	
Mastern NO.12 Seocho PFV	15,000,000	4,000,000	
Apex Stone Co., Ltd	15,000,000	9,500,000	
Seho Development Co., Ltd	15,000,000	11,980,000	
Songdo American Town Co.,	10,000,000	11,500,000	
Ltd	15,000,000	9,047,170	
Yongin Technovalley Co., Ltd.	15,000,000	4,000,000	
Suseong Beommool	45 000 000	2 200 200	
LocalHousing associations	15,000,000	3,000,000	
MegaAsset Co., Ltd	15,000,000	11,400,000	
Golden DMC Co., Ltd.	15,000,000	15,000,000	
DREAM LAND 2ND Co., Ltd. The Ocean City 2nd	15,000,000	4,300,000	
Sejong & Partners Co., Ltd.	15,000,000	12,046,000	
RICH PERSON THINKING	15,000,000	11,838,000	
Co., Ltd.	15,000,000	15,000,000	
M Techno Center Co., Ltd.	15,000,000	14,350,000	
The Ocean City 1st	15,000,000	12,046,000	
TJ Otis Co., Ltd	15,000,000	13,591,000	
Las Flores Co., Ltd	15,000,000	13,245,000	
HANIM ENS Co., Ltd	15,000,000	13,100,263	
JSPARTNERS.Co., Ltd	15,000,000	13,388,000	
Haedeun Industrial	15,000,000	13,950,000	
Development Co., Ltd.	15,000,000	10,900,000	
IB Gurae 1ST L.L.C	15,000,000	15,000,000	
Chung Urban Development Co., Ltd	15,000,000	10,875,000	
Siwon D&P Corp.	15,000,000	623,000	
Korea asset in trust Co., Ltd	15,000,000	15,000,000	
Korea asset in trust Co., Ltd	15,000,000	14,700,000	
Thank you Road D&C Co.,	15,000,000	, ,	
Ltd		15,000,000	
Haegeum Limited Company	15,000,000	15,000,000	
CM ilgongil Co., Ltd.	15,000,000	5,500,000	
IB Gurae 2ND L.L.C	15,000,000	10,900,000	

Limit loan

	December 3	31, 2016
Opponent	Maximum limit	Balance
A1capital	15,000,000	10,000,000
WingBridge I&D	14,000,000	9,887,000
STOBA C & D Co., Ltd	13,000,000	11,300,000
BIFC Hotel Project Co., Ltd.	12,500,000	7,500,000
Segora Dikal Co., Ltd.	11,400,000	11,400,000
Sungwoon Co., Ltd.	10,000,000	3,100,000
Into Industrial	10,000,000	10,000,000
M Square PFV Co., Ltd	10,000,000	1,000,000
AJU HOTEL SEOKYO WIBESEUTEUPYEONGDON	10,000,000	7,453,515
G 1ST INC.	10,000,000	10,000,000
Yeongtong Project Co., Ltd. Hyundai Private Real Estate	10,000,000	5,900,000
Investment Trust 20 Ilbeongi building Co., Ltd	10,000,000 9,200,000	10,000,000 6,270,000
HOUSE PAN Co., Ltd. M-Square Gwacheon 3th.Co., Ltd	9,000,000	15,000,000 1,000,000
UB HOLDING Co., Ltd LHN	9,000,000 8,000,000	9,000,000 4,400,000
Kimhae Mugye 2nd Inc.	7,500,000	5,502,000
SEYEONG DREAM 1ST INC.	7,500,000	6,000,000
Kimhae Mugye 1st Inc.	7,500,000	5,502,000
SIP 1st Inc.	7,500,000	2,800,000
KIMPO M 1ST INC.	7,500,000	4,000,000
SEYEONG DREAM 1ST INC. Wonju Bangok 2nd Inc.	7,500,000	6,000,000
, -	7,500,000	7,067,000
Wonju Bangok 1st Inc.	7,500,000	7,067,000
LSH 1st Seoil development	7,500,000 5,800,000	2,800,000 1,375,840
HAEJIN ASSET LOAN INC.	5,000,000	5,000,000
E.M Consulting Co., Ltd	5,000,000	2,387,000
BIZ FORE Co., Ltd.	4,900,000	4,020,000
YUNIAE LOAN INC.	4,000,000	1,000,000
MyungDong Tower Co., Ltd GL-MUNJEONG PFV Co.,	2,500,000	1,000,000
Ltd. EOS ASSET MANAGEMENT	2,500,000	2,500,000
1ST LOAN INC. AGE DEVELOPMENT KIMPO	2,500,000	2,500,000
Co., Ltd. Deokeun City Development	2,000,000	2,000,000
Co., Ltd	1,500,000	450,000
	1,078,990,000	687,723,645

Commitment on loan

	December 31, 2016			
Opponent	Maximum limit	Balance		
LCT PFV Co., Ltd.	170,000,000	170,000,000		
Jinseong Housing Company GEUMYANGDIAENDI Co.,	160,000,000	160,000,000		
Ltd. M-Square GwaCheon 4 <sup>th</sup> Co.,	111,241,000	111,241,000		
Ltd	100,500,000	100,500,000		
Seyoung KNI Co., Ltd.	100,000,000	100,000,000		
SAMJUNG Co., Ltd.	90,000,000	90,000,000		
Las Flores Co., Ltd.	74,172,000	74,172,000		
Yoo world	66,482,000	66,482,000		
Green NARAE.INC	66,000,000	66,000,000		
Haegeum Limited Company	60,500,000	60,500,000		
M Square PFV Co., Ltd.	60,000,000	60,000,000		
Seho Development Co,. Ltd.	58,871,000	58,871,000		
HD 5TH Co., Ltd. UNJEONG CONSTRUCTION	56,300,000	56,300,000		
Co., Ltd.	54,100,000	54,100,000		
Yongin Technovalley Co., Ltd. Angel Engineering and	50,050,000	50,050,000		
Construction Co., Ltd. Gachang Logistics Center	49,460,000	49,460,000		
PFV, Inc.	45,500,000	45,500,000		
Chungdam enc Co., Ltd	40,174,000	40,174,000		
Chaewoo coreana corporation EMSEQUEOHYEONGOK	37,800,000	37,800,000		
Co., Ltd.	36,168,000	36,168,000		
CM ilgongil Co., Ltd.	35,000,000	35,000,000		
SAEHAN Co., Ltd.	35,000,000	35,000,000		
Samin Co., Ltd EMSQUARE HIGS 1ST Co.,	35,000,000	35,000,000		
Ltd.	30,000,000	30,000,000		
Smart Green Co., Ltd	30,000,000	30,000,000		
Daim D&C	26,000,000	26,000,000		
HANIM ENS Co., Ltd. Songdo American Town Co.,	25,053,000	25,053,000		
Ltd GOLDEN GRAND	25,000,000	25,000,000		
HOLDINGS Co., Ltd	23,697,000	23,697,000		
HILSEUWAELMISA INC.	23,300,000	23,300,000		
Misodnc Ltd	22,700,000	22,700,000		
JESE CONSTRUCTION Moodong 1 <sup>st</sup> area residence	21,113,000	21,113,000		
association	20,400,000	20,400,000		
JOONGHYUN CNC & SPC	20,000,000	20,000,000		
CityGalaxy	18,600,000	18,600,000		
E.M Consulting. Co., Ltd	17,387,000	17,387,000		
SGCA	16,900,000	16,900,000		

		December	· 31, 2016
	Opponent	Maximum limit	Balance
Commitment on loan	J&C Partners. Co., Ltd.	15,000,000	15,000,000
	M-Square Base 1st Inc.	15,000,000	15,000,000
	CK Corporation	11,500,000	11,500,000
	TRINY M	9,000,000	9,000,000
	Sewon Investment		
	Development Co., Ltd	8,400,000	8,400,000
	DongsanC&D Co., Ltd	8,000,000	8,000,000
	SAMIN Co., Ltd	6,500,000	6,500,000
		1,985,868,000	1,985,868,000
		3,359,228,000	2,967,961,645

The Group's securities received as deposit held on behalf of clients as of December 31, 2016 and 2015 are as follows (Korean won in thousands):

Conviting received as deposits	December 31, 2016	December 31, 2015			
Securities received as deposit:  Consigner	12,948,098,272	11,856,776,779			
Savers Beneficiary	4,063,541 4,724,960,895	4,653,084 4,380,497,873			
	17,677,122,708	16,241,927,736			
Securities loaned:					
Stock Securities borrowed:	78,548,118	5,406,774			
Stock	138,825,063	67,833,269			
Government & local bonds	322,328,457	99,510,751			
	461,153,520	167,344,020			
Written-off loan	107,813,882	48,624,141			
Endorsed bills	135,000,000	<b>\</b> 80,000,000			

# 40. Related party disclosures

Significant related parties for the year ended December 31, 2016 are as follows.

	Company
Parent company	Meritz Financial Group Inc.
Subsidiaries	Eugene Separate Taxation High-Yield PE No. 2
	Eugene Separate Taxation High-Yield PE No. 7
	Kiwoom Separate Taxation High-Yield No. 2
	Daishin Separate Taxation High-
	Yield Private Investment Trust No. 2
	Sparx Separate Taxation High-Yield No. 1
	Capstone Private Mbs Real Estate Investment Trust No. 2
	Capstone Private Mbs Real Estate Investment Trust No. 3
	Smart-S 6th Securitization Specialty
	Smart-S 8th Securitization Specialty
	Smart-S 10th Securitization Specialty
	Meritz Securitization Specialty Co., Ltd.

_					
Su	hs	:IC	lıа	rie	2

Company

M Square Gyeyang 1st

M Square Gyeyang 2<sup>nd</sup>

M Square Sungsu 1st

M Square Pyeongchon 1st

M Square Dongcheon 1st

MJD 1st

Daegu SG

New Commons 1st

Haeundae Project 1st

Haeundae Project 2<sup>nd</sup>

M Square Shihung 1st

Sungbok 1st

M Square Osan 1st

DM 1<sup>st</sup>

M Square Sangbong 2<sup>nd</sup>

M Square Woodong 1st

M Square Dadam

M Square Yangsan 1st

Sanbon Master plaza 1st

M Square Jochon1st

M Square Gunsan 1st

Yongin Sungbok 2<sup>nd</sup>

Aberlour 1st

Smart Lake 1st

Dongdaemun H 1st

Nice Penta 1st

MDS 1st

AM 1st

SMK 1st

SMK 2<sup>nd</sup>

Smart R&D 1st

UPS 1st

Highest Ocean 1st

M Square Sagik 1st

M Square Chungju 1st

M Square Base 1st

Smart Dongcheon 1st

Smart Penta 1st

Real Benefit

M Square Mia 2<sup>nd</sup>

Smart Sanghyun 1st

Yongin Sungbok 1st

Smartup 1st

Smartup 2<sup>nd</sup>

Smartup 3<sup>rd</sup>

CD Two 1st

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Si	ihs	ะเป	ıa	ries	

# Company

SLT 1st

Genius 1st

Msquare Mia third, Co., Ltd. (\*1)

Msquare Mia fourth, Co., Ltd. (\*1)

B Lake First Co., Ltd. (\*1)

MJ Sangmi First Co., Ltd. (\*1)

Apple SG Co., Ltd. (\*1)

DSM 3rd Co., Ltd. (\*1)

Yongjuksg Co., Ltd. (\*1)

AM3 Co., Ltd. (\*1)

Yongin Seongbok 4th Co., Ltd. (\*1)

Dujeong SG Co., Ltd. (\*1)

SL The Ocean 1st Co., Ltd. (\*1)

Haeundae SG Co., Ltd. (\*1)

Msquare Mia the first, Co., Ltd. (\*1)

H Society 3rd Inc. (\*1)

WE BEST Cheongdam 1st Co., Ltd. (\*1)

N.H.M.A 1 Co., Ltd. (\*1)

Doojung H.S 1 Co., Ltd. (\*1)

MSM 1<sup>ST</sup> (\*1)

Genius 2th Co., Ltd. (\*1)

Msquare Myungji Co., Ltd. (\*1)

Yeksam Trinity 1st Co., Ltd. (\*1)

M SQUARE SONGJEONG (\*1)

SMART CHUNGDAM 1<sup>ST</sup> Co., Ltd. (\*1)

MBR Co., Ltd. (\*1)

AM 4TH INC. (\*1)

Yongin Sungbok 7<sup>th</sup> (\*1)

BK AGE Inc. (\*1)

Chams Fild Oh Kid Co., Ltd. (\*1)

M QUEENS 1ST Inc. (\*1)

TH 1st Co., Ltd. (\*1)

H SOCIETY M (\*1)

SLT MISA (\*1)

WONJU SG (\*1)

MDMA 1<sup>ST</sup> Co., Ltd. (\*1)

My Best 1<sup>st</sup> (\*1)

Msquare Shihung 1st Co., Ltd. (\*1)

M square Sujeong (\*1)

RREEF SPEZIAL INVEST GmbH trust of securities

contract
G New Jump Short-Term Bond Investment Trust 1

40. Related party disclosures (cont'd)							
	Company						
Associates	Saengbo Wootoo Shinyoung Housing CR- Reit Co., Ltd. II (*2)						
	Globalone Private IPO Investment Trust #1 (*4)						
	MPLUS Private Real Estate Investment Trust #4 (*4)						
	Pureun Partners Fund (*4)						
	Csquared Merry Private Investment Trust 1st (*4)						
	Bros IPO Investment Private Trust 1st (*4)						
	Human Investment Trust (*4)						
	Aion Private Investment Trust 1st (*4)						
	Kiwoom Milestone Europe Professional Private Real Estate Investment Trust3 (*4)						
	Bestars Samo Property No.8 Investment Inc.(*4)						
	Platform Partners active mezzanine private equity investment trust No.2 (*4) Airplane fund 5 (*4)						
	Airplane fund 6 (*4)						
	High Yield Plus Investment Trust 3 <sup>rd</sup> (*4)						
	High Yield Plus Investment Trust 4th (*4)						
	East Spring High Yield 2nd (*4)						
Other related parties (*3)	Meritz Fire & Marine Insurance Co., Ltd.						
, ,	Meritz Asset Management Co., Ltd.						
	Meritz Financial Information Service Co., Ltd.						
	Meritz Business Service Co., Ltd.						
	Meritz Capital Co., Ltd.						
	Meritz Real Estate Asset Management Co., Ltd.						
	Mertiz Vietnam Security Investment Trust						
	Eugene High Yield Private Investment Trust 1st						
	Meritz DM Investment Trust on Special Asset 1st						
	PT.MERITZ KORINDO INSURANCE						
	Meritz Private Offering Property 6 <sup>th</sup>						
	Meritz Korea Security Investment Trust CI						
	Meritz Korea Investment Trust on Bond						
	BNK High Yield Investment 1st						
	Hyundai High-Yield Private Trust 11 <sup>th</sup>						
	Meritz Korea smallcap Securities Investment trusts CI						
	Meritz Korea Private Investment Trust 6th						
	Meritz Global Healthcare High-						
	Yield Trust on Securities 1 <sup>st</sup> (CI)						
	Meritz Auto 1 <sup>st</sup> Securitization Specialty Co., Ltd.						

Meritz Auto 2<sup>nd</sup> Securitization Specialty Co., Ltd. Meritz Auto 3<sup>rd</sup> Securitization Specialty Co., Ltd. Meritz Auto Fourth Securitization Specialty Company Meritz Auto Fifth Securitization Specialty Company

Meritz Asia Frontier Private Investment Meritz China Security Investment Cl

- (\*1) The entities are additional subsidiaries for the year ended December 31, 2016. Meanwhile, during this year, MGS 1st and four others (liquidation), Gold digger equity MMT (trust termination), China Asia Investment & Consulting Ltd. (sale), Eugene Separate Taxation High-Yield PE No.1 (decline in ratio of shareholding) were excluded from subsidiaries.
- (\*2) Related parties with shares in subsidiaries.
- (\*3) By selling shares of China Asia Investment & Consulting Ltd., Cabiroth Investment Consulting (Shanghai) Co., Ltd. owned by this subsidiary was excluded from affiliated companies.
- (\*4) Classified as joint enterprise due to consent of the participants of the company's important decision-making body
- (\*5) Meritz Financial Group's subsidiary entities.

Significant transactions with related parties for the years ended December 31, 2016 and 2015 are summarized as follows (Korean won in thousands):

		Yea	ar ended Dec	eml	per 31, 2016	Yea	ar ended Dec	eml	per 31, 2015
	Company		Income		Expense	-	Income		Expense
Parent company	Meritz Financial Group Meritz Fire & Marine	\	5,147	\	8,496,841	\	5,725	\	4,653,767
Others	insurance Co., Ltd. Meritz Asset		2,771,534		10,773,184		6,471,889		18,360,779
	Management BNK High Yield		-		2,221		-		-
	Investment 1st Meritz Financial Information Service Co., Ltd.(before Ritz		1,005,402		-		-		126,027
	Partners) Meritz Business		-		23,480		-		39,362
	Service Co., Ltd.		-		1,657,399		-		1,420,794
	Meritz Capital Co., Ltd. Meritz Real Estate Asset Management		184,919		2,512,374		213,933		2,452,340
	Co., Ltd. Eugene High Yield Private		52,920		-		-		-
	Investment Trust 1st Hyundai High-Yield		110,267		-		-		-
	Private Trust 11 <sup>th</sup> Hyundai High Yield		29,740		-		-		-
	Private Trust 3th		98,474		-				
		\	4,258,403	\	23,465,499	\	6,691,547	\	27,053,069

Outstanding balances with related parties as of December 31, 2016 and 2015 are as follows (Korean won in thousands):

,		Y	ear ended Dec	embe	er 31, 2016	_	Year ended Dece	embe	r 31, 2015
_	Company		Assets		Liabilities		Assets		Liabilities
	Meritz Financial Group Meritz fire & marine	\	41,917	\	21,999,850	\	63,365	\	22,707,120
Others	insurance Co., Ltd. Meritz Financial Information		231,689		320,461,753		456,703		176,977,433
	Service Co., Ltd. (formerly Ritz Partners) Meritz Business Service Co.,		-		2,080,429		-		1,534,387
	Ltd.		-		1,784,733		_		1,519,917
	Meritz Capital Co., Ltd. Meritz Real Estate Asset		15,044,334		29,554,811		34,169,178		27,764,647
	Management Co., Ltd. Mertiz Vietnam		-		36,540		-		-
	Security Investment Trust Meritz Korea Security		7,824,313		-		-		-
	Investment Trust 1st BNK High Yield Investment		23,618,964		-		-		-
	1st Eugene High Yield Private		31,312,232		-		-		-
	Investment Trust 1st Bros IPO Investment		23,907,815		-		-		-
	Private Trust 1st Csquared Merry		3,196,028		-		-		-
	Private Investment Trust Aion Private Investment Trust		5,315,107		-		-		-
	1st		3,210,962		-		-		-
	East Spring High Yield 2nd		4,889,120		-		-		-
	Pureun Partners Fund High Yield Plus Investment		3,257,172		-		-		-
	Trust 3rd High Yield Plus Investment		399,572		-		-		-
	Trust 4th Hyundai High-Yield Private		599,096		-		-		-
	Trust 11 <sup>th</sup> Human Investment Trust		999,860 3,260,015		-		-		-
		\	127,108,196	\	375,918,116	\	34,689,246	\	230,503,504

Details of compensation paid to key management personnel are shown below. The key management personnel is composed of registered directors and non-registered directors who have the authority and responsibilities of corporate activities (Korean won in thousands):

		Year ended December 31, 2016		Year ended ecember 31, 2015
Short-term salary	\	27,819,741	\	32,956,593
Severance payment		835,078		1,367,709
	\	28,654,819	\	34,324,302

### 41. Statements of cash flows

Cash and cash equivalents in the statements of cash flows as of December 31, 2016 and 2015 are summarized as follows (Korean won in thousands):

	D	ecember 31, 2016	D 	ecember 31, 2015
Cash	\	-	\	-
Cash equivalents		657,187,591		546,225,923
	\	657,187,591	\	546,225,923
				_

### 41. Statements of cash flows (cont'd)

Significant non-cash transactions for the years ended December 31, 2016 and 2015 are as follows (Korean won in thousands):

	-	Year ended December 31, 2016		Year ended ecember 31, 2015
Gain (loss) on valuation of available-for-sale financial assets	\	11,778,016	\	(77,124,678)
Actuarial valuation of the net defined benefit liabilities		(48,728)		(403,413)
Present value discount of loans		-		114,281
Present value discount of other assets		92,281		173,558
Present value discount of withholdings		1,608,671		8,002,619
Initial recognition of provisions for restoration costs		372,701		390,304
Transferred between advanced payments and intangible assets		429,672		432,110
Transferred between available-for-sale financial assets and loans		344,967		-
Transferred between RCPS and common stock		2,272,944		-
Transferred between provision and allowance for possible loan losses		-		515,824
Transferred between investment property and tangible assets		(156,277)		2,822,078
Repayment of borrowing securities		-		(5,909,288)
Transferred between financial lease and property		-		95,944
Transferred between priority paid and collective fund for default loss		(57)		(11,482)
Bad debts written off		59,189,741		-
Increase in redeemable equity of non-controlling shareholders		1,472,488		3,327,534
Increase in non-controlling interests		-		(9,387,489)
Increase in loss on foreign currency transactions		(13,381)		13,877
Increase(decrease) in equity method capital fluctuation		718,852		-
Separation of conversion rights from convertible redeemable preferred stock		(664,085)		-
Issuance of stock upon merger		-		211,996,500
Decrease in non-controlling interest by merger		-		(167,726,608)

Net cash flow in accordance with disposal of subsidiaries for the years ended December 31, 2016 and 2015 is as follows (Korean won in thousands):

		ear ended cember 31, 2016		Year ended December 31,2015
Proceed from disposal	\	120,000	\	-
Cash and cash equivalent in subsidiaries		(427,945)		(28,158,040)
Net cash flow	\	(307,945)	\	(28,158,040)

#### 42. Trust accounts

The Group engages in the investment trust services and separately maintains the books of accounts and financial statements in connection with the trust operations (the trust accounts) from those of the Group accounts in accordance with the Financial Investment Services and Capital Market Act.

Details of the financial information in relation to trust accounts as of December 31, 2016 are as follows (Korean won in thousands):

## 42. Trust accounts (cont'd)

	S	pecific money trust		Property trust		Total
Cash and due from banks	\	122,492,024	\	-	\	122,492,024
Negotiable instruments		726,878,874		1,106		726,879,980
Monetary claims		20,000,000		1,410,356,345		1,430,356,345
Real property		-		-		-
Other assets		4,483,331		-		4,483,331
	\	873,854,229	\	1,410,357,451	\	2,284,211,680
Other liabilities		10,897,432		-		10,897,432
Trust and the original		862,956,797		1,410,357,451		2,273,314,248
	<u>\</u>	873,854,229	\	1,410,357,451	\	2,284,211,680

Details of transactions with trust accounts as of December 31, 2016 and 2015 are as follows (Korean won in thousands):

	De	cember 31, 2016	December 31, 2015	
Fees on trust accounts	\	3,116,893	<b>4,517,970</b>	
Accrued fees on trust accounts		1,444,983	1,337,368	

# 43. Classification of financial assets and liabilities

Classification of financial assets and liabilities as of December 31, 2016 and 2015 is as follows (Korean won in thousands):

	December 31, 2016											
		Financial assets or liabilities										
	Financial assets or liabilities held- for-trading	J	Available-for-sale financial assets or liabilities	Amortized cost of a financial assets or liabilities	Total							
Financial assets:	Tor-trading	profit of loss	liabilities	or nabilities	Total							
Cash and due from banks	_	- \ -	-	<b>\</b> 816,956,145	<b>\</b> 816,956,145							
Financial assets held-for- trading	7,468,895,113	-	-	-	7,468,895,113							
Derivative assets	157,372,714	-	-	-	157,372,714							
Financial assets designated at fair value through profit or loss	-	- 425,026,918	-	-	425,026,918							
Available-for-sale financial assets	-		1,574,562,095	-	1,574,562,095							
Loans CMA	-	- -		5,477,539,160 28,009,548	5,477,539,160 28,009,548							
Lease Other financial assets		- 		260,006,034 486,515,402	260,006,034 486,515,402							
	7,626,267,827	7 \ 425,026,918	1,574,562,095	7,069,026,289	16,694,883,129							
Financial liabilities: Deposits	-		-	3,102,818,820	3,102,818,820							
Financial liabilities held- for-trading	1,868,617,761	1 -	-	-	1,868,617,761							
Derivative liabilities	103,156,500	) -	-	-	103,156,500							

## 43. Classification of financial assets and liabilities (cont'd)

					De	cember 31, 2016				
	inancial assets liabilities held- for-trading	de	inancial assets or liabilities esignated at fair value through profit or loss		/ailable-for-sale ancial assets or liabilities	sets or a financial asse			Total	
Financial liabilities designated at fair value		-		654,429,685		-		-		654,429,685
through profit or loss Borrowings Bonds Other financial liabilities		- - -		- - -		- - -		8,694,608,873 279,956,420 462,861,638		8,694,608,873 279,956,420 462,861,638
	\	1,971,774,261	\	654,429,685	\	-	\	12,540,245,751	\	15,166,449,697
Financial assets:										
Cash and due from banks Financial assets held-for-	\	-	\	-	\	-	\	646,068,281	\	646,068,281
trading		6,973,250,157		-		-		-		6,973,250,157
Derivative assets Financial assets		161,984,010		-		-		-		161,984,010
designated at fair value through profit or loss		-		335,500,669		-		-		335,500,669
Available-for-sale financial assets		-		-		733,421,016		-		733,421,016
Loans CMA Lease Other financial assets		- - -		- - -		- - -		4,449,846,185 54,820,249 471,534,869 304,854,846		4,449,846,185 54,820,249 471,534,869 304,854,846
	\	7,135,234,167	\	335,500,669	\	733,421,016	\	5,927,124,430	\	14,131,280,282
Financial liabilities: Deposits Financial liabilities held-		-		-		-		3,463,870,841		3,463,870,841
for-trading		571,699,111		-		-		-		571,699,111
Derivative liabilities Financial liabilities		134,337,362		-		-		-		134,337,362
designated at fair value through profit or loss		-		490,792,826		-		-		490,792,826
Borrowings Bonds Other financial liabilities		- - -		- - -		- - -		7,085,058,245 279,898,600 457,021,002		7,085,058,245 279,898,600 457,021,002
	\	706,036,473	\	490,792,826	\	-	\	11,285,848,688	\	12,482,677,987

# 44. Fair value of financial assets and liabilities

Fair value means a price that a market participant receives by selling an asset or pays by transferring a liability in an ordinary transaction on the date of transaction. Fair value measurement estimates the price in the ordinary transaction between the market participants, who sell the asset and transfer the liability, at an active market on the date of transaction. The Group calculates the fair values of assets/liabilities by making the best use of market values and making the least use of inputs that are not based on the observable market data.

## Fair values classification:

The Group classifies fair value measurements of financial assets or liabilities by reference to the source of inputs used to derive the fair values. The classification is as follows:

	Details
(Level 1)	In case assets or liabilities are measured by quoted prices (unadjusted) in active markets, fair value of the assets or liabilities is classified as Level 1. The assets of liabilities classified as Level 1 include stock transacted in KRX, ETF, listed option, stock warrant, stock trans
	acted in foreign, etc.
(Level 2)	In case assets or liabilities are measured by valuation techniques and all significant inputs are based on the observable market data, fair value of the assets or liabilities is classified as Level 2. The assets of liabilities classified as Level 2 include bond, interest rate swap, foreign exchange forward, etc.
(Level 3)	In case assets or liabilities are measured by valuation techniques and all significant inputs are based on the no observable market data, fair value of the assets or liabilities is classified as Level 3. The assets of liabilities classified as Level 3 include unlisted stock, option related over-the-counter securities, DLS, separate deposit from investors, etc.

The Group calculates the fair values of assets/liabilities by using an internal valuation model or receives fair market values assessed by independent external appraisers.

Details of the carrying amount and fair value of financial instruments as of December 31, 2016 and 2015 are as follows (Korean won in thousands):

	December 31, 2016												
				Fair	valu	ie							
		Level 1		Level 2		Level 3		Total					
Financial assets: Financial assets held-for- trading:													
Equity securities	\	344,855,784	\	-	\	-	\	344,855,784					
Debt securities		-		6,936,012,372		-		6,936,012,372					
Others		188,026,959		-		-		188,026,959					
Derivative assets Financial assets designated at fair value through profit		9,953,821		123,455,053		23,963,840		157,372,714					
or loss Available-for-sale financial assets:		-		144,498,917		280,528,001		425,026,918					
Equity securities		5,843,940		-		238,645,625		244,489,565					
Debt securities		-		1,223,771,001		-		1,223,771,001					
Others				<u>-</u>		106,301,531		106,301,531					
	\	548,680,504	\	8,427,737,343	\	649,438,997	\	9,625,856,844					
Financial liabilities: Financial liabilities held-for- trading:													
Equity securities		190,198,715		-		-		190,198,715					
Debt securities		-		1,677,590,111		-		1,677,590,111					
Others		828,935		-		-		828,935					
Derivative liabilities Financial liabilities designated at fair value		2,659,166		88,164,497		12,332,836		103,156,499					
through profit or loss		-	-	-		654,429,685	_	654,429,685					
	<u>\</u>	193,686,816	<u>\</u>	1,765,754,608	\	666,762,521	<u>\</u>	2,626,203,945					

<sup>(\*1)</sup> There was no transfer between level 1 and level 2 in 2016 and 2015. The Group recognizes a transfer at the end of the reporting period when an event or circumstance causing the transfer among fair value levels is incurred.

(\*2) Because there was no posted price of the same financial product in an active market or fair value could not be reliably estimated, the balance of financial instruments measured at cost is \27,803,668 thousand (excluding joint compensation fund for loss incurred from contravention of contracts). Of the financial instruments measured at cost for the year ended December 31, 2016, \7,515,429 thousand of book value was eliminated, and in regard to the elimination, \1,482,109 thousand was recognized as a gain or loss on disposal.

				Decembe	er 31	, 2015		
				Fair	valu	е		
		Level 1		Level 2	Level 3			Total
Financial assets: Financial assets held-for- trading:								
Equity securities	\	279,550,141	\	-	\	-	\	279,550,141
Debt securities		-		6,605,762,262		-		6,605,762,262
Others		87,937,755		-		-		87,937,755
Derivative assets Financial assets designated at fair value through profit		6,691,703		143,088,248		12,204,059		161,984,010
or loss Available-for-sale financial assets:		4,281,009		30,509,447		300,710,213		335,500,669
Equity securities		51,917,331		-		200,156,068		252,073,399
Debt securities		-		390,374,823		-		390,374,823
Others		-		-		90,972,795		90,972,795
	\	430,377,939	\	7,169,734,780	\	604,043,135	\	8,204,155,854
Financial liabilities: Financial liabilities held-fortrading:								
Equity securities		79,764,851		-		-		79,764,851
Debt securities		-		490,643,123		-		490,643,123
Others		1,291,137		-		-		1,291,137
Derivative liabilities Financial liabilities designated at fair value		1,625,479		127,938,207		4,773,675		134,337,361
through profit or loss		-		-		490,792,826	_	490,792,826
	<u>\</u>	82,681,467	\	618,581,330	<u>\</u>	495,566,501	<u>\</u>	1,196,829,298

- (\*1) There was no transfer between level 1 and level 2 in 2016 and 2015. The Group recognizes a transfer at the end of the reporting period when an event or circumstance causing the transfer among fair value levels is incurred.
- (\*2) Because there was no posted price of the same financial product in an active market or fair value could not be reliably estimated, the balance of financial instruments measured at cost is \10,811,445 thousand (excluding joint compensation fund for loss incurred from contravention of contracts). Of the financial instruments measured at cost for the year ended December 31, 2015, \13,790,408 thousand of book value was eliminated, and in regard to the elimination, \6,048,762 thousand was recognized as a gain or loss on disposal.

Details of inputs used in fair value, valuation technique, and measurement of fair value classified into level 2 among financial assets and liabilities, currently measured at fair value as of December 31, 2016 and 2015 are as follows(Korean won in millions):

	December 31, 2016	December 31, 2015	Valuation technique	Inputs
Financial assets: Financial assets held-for-trading:				
Debt securities	6,936,012,372	6,605,762,262	DCF model	Discount rate, interest rate
Derivative assets	123,455,053	143,088,248	DCF model	Discount rate, exchange rate
Financial assets designated at fair value through profit or loss Available-for-sale financial assets:	144,498,917		DCF model	Discount rate, interest rate
Debt securities	4 000 774 004	000 074 000	DOElsl	Discount rate,
	1,223,771,001	·	DCF model	interest rate
	8,427,737,343	7,169,734,780		
Financial liabilities: Financial liabilities held-fortrading:				
Debt securities	1,677,590,111	490,643,123	DCF model	Discount rate, interest rate
Derivative liabilities	88,164,497	127,938,207	DCF model	Discount rate, interest rate
	\ 1,765,754,608	\ 618,581,330		
	<del></del>			

Changes in the fair value of level 3 for the years ended December 31, 2016 and 2015 are as follows (Korean won in thousands):

						Year e	nde	d December 3	1, 20	016				
		January 1,2016	F	Profit/Loss		Other comprehen-sive income		Move between levels (*)		Purchase/ issuance		Disposal/ edemption	De	cember 31, 2016
Assets:														
Financial assets held-for- trading: Derivative instruments	₩	12,204,059	₩	6,022,615	₩	_	₩	-	₩	12,965,213	₩	(7,228,047)	₩	23,963,840
Financial assets designated at fair value through profit or loss		200 740 040		F 470 040						7,904,112,689		(7,000,774,040)		000 500 004
Available-for-sale financial assets:		300,710,213		5,479,948		-		-				(7,929,774,849)		280,528,001
Equity instrument		200,156,068		3,152,981		11,234,177		(5,046,159)		43,833,353		(14,684,795)		238,645,625
Others		90,972,795		5,023,975		(7,660,449)		<u>-</u>		565,558,480		(547,593,270)		106,301,531
	₩	604,043,135	₩	19,679,519	₩	3,573,728	₩	(5,046,159)	₩	8,526,469,735	₩	(8,499,280,961)	₩	649,438,997
Liabilities: Financial liabilities held-for- trading:														
Derivative instruments Financial liabilities designated at fair value		4,773,675		768,575		-		-		18,308,292		(9,980,556)		12,332,836
through profit or loss		490,792,826		(14,257,340)						1,101,682,827		(952,303,308)		654,429,685
	₩	495,566,501	₩	(13,488,765)	₩	-	₩		₩	1,119,991,119	₩	(962,283,864)	₩	666,762,521

(\*) There was no transfer to level 3 in 2016. Because an unlisted company went public in 2016, the amount of ₩5,046,159 thousand was transferred from level 3 to level 1. The Group recognizes a transfer at the end of the reporting period when an event or circumstance causing the transfer among fair value levels is incurred.

					Year ended Dec	emb	er 31, 2015				
			Profit/Loss	Other comprehensive income			rchase/issuance		Disposal/ redemption		December 31, 2015
₩	4,890,269	₩	4,870,824	₩	-	₩	8,997,488	₩	(6,554,522)	₩	12,204,059
	154,013,123		3,609,512		-		8,116,334,446		(7,973,246,868)		300,710,213
	261,872,604 72,520,064		8,808,362 198,872		652,932 (131,808)		25,720,921 99,664,799		(96,898,751) (81,279,132)		200,156,068 90,972,795
₩	493,296,060	₩	17,487,570	₩	521,124	₩	8,250,717,654	₩	(8,157,979,273)	₩	604,043,135
	2,117,002		(1,890,405)		-		2,900,097		(2,133,829)		4,773,675
	320,323,756		(6,463,822)		-		813,937,168		(649,931,920)		490,792,826
₩	322,440,758	₩	(8,354,227)	₩		₩	816,837,265	₩	(652,065,749)	₩	495,566,501
	₩	₩ 4,890,269  154,013,123  261,872,604 72,520,064  ₩ 493,296,060  2,117,002  320,323,756	₩ 4,890,269 ₩  154,013,123  261,872,604 72,520,064 ₩ 493,296,060 ₩  2,117,002  320,323,756	₩       4,890,269       ₩       4,870,824         154,013,123       3,609,512         261,872,604 72,520,064       8,808,362 198,872         ₩       493,296,060       ₩       17,487,570         2,117,002       (1,890,405)         320,323,756       (6,463,822)	January 1,2015       Profit/Loss         ₩       4,890,269       ₩       4,870,824       ₩         154,013,123       3,609,512         261,872,604 72,520,064       8,808,362 198,872       ₩       198,872         ₩       493,296,060       ₩       17,487,570       ₩         2,117,002       (1,890,405)         320,323,756       (6,463,822)	January 1,2015       Profit/Loss       Other comprehensive income         ₩       4,890,269       ₩       4,870,824       ₩       -         154,013,123       3,609,512       -         261,872,604 72,520,064       8,808,362 198,872       652,932 (131,808)         ₩       493,296,060       ₩       17,487,570       ₩       521,124         2,117,002       (1,890,405)       -       -         320,323,756       (6,463,822)       -	January 1,2015         Profit/Loss         Other comprehensive income         Pure Pure Pure Pure Pure Pure Pure Pure	January 1,2015         Profit/Loss         sive income         Purchase/issuance           ₩         4,890,269         ₩         4,870,824         ₩         -         ₩         8,997,488           154,013,123         3,609,512         -         8,116,334,446           261,872,604 72,520,064         8,808,362 198,872         652,932 (131,808)         25,720,921 99,664,799           ₩         493,296,060         ₩         17,487,570         ₩         521,124         ₩         8,250,717,654           2,117,002         (1,890,405)         -         2,900,097           320,323,756         (6,463,822)         -         813,937,168	January 1,2015         Profit/Loss         Other comprehensive income         Purchase/issuance           ₩         4,890,269         ₩         4,870,824         ₩         -         ₩         8,997,488         ₩           154,013,123         3,609,512         -         8,116,334,446           261,872,604         8,808,362         652,932         25,720,921           72,520,064         198,872         (131,808)         99,664,799           ₩         493,296,060         ₩         17,487,570         ₩         521,124         ₩         8,250,717,654         ₩           2,117,002         (1,890,405)         -         2,900,097            320,323,756         (6,463,822)         -         813,937,168	January 1,2015         Profit/Loss         Other comprehensive income         Purchase/issuance         Disposal/ redemption           ₩         4,890,269         ₩         4,870,824         ₩         -         ₩         8,997,488         ₩         (6,554,522)           154,013,123         3,609,512         -         8,116,334,446         (7,973,246,868)           261,872,604         8,808,362         652,932         25,720,921         (96,898,751)           72,520,064         198,872         (131,808)         99,664,799         (81,279,132)           ₩         493,296,060         ₩         17,487,570         ₩         521,124         ₩         8,250,717,654         ₩         (8,157,979,273)           2,117,002         (1,890,405)         -         2,900,097         (2,133,829)           320,323,756         (6,463,822)         -         813,937,168         (649,931,920)	January 1,2015         Profit/Loss         Other comprehensive income         Purchase/issuance         Disposal/ redemption         Disposal/ redemption           ₩         4,890,269         ₩         4,870,824         ₩         -         ₩         8,997,488         ₩         (6,554,522)         ₩           154,013,123         3,609,512         -         8,116,334,446         (7,973,246,868)           261,872,604         8,808,362         652,932         25,720,921         (96,898,751)           72,520,064         198,872         (131,808)         99,664,799         (81,279,132)           ₩         493,296,060         ₩         17,487,570         ₩         521,124         ₩         8,250,717,654         ₩         (8,157,979,273)         ₩           2,117,002         (1,890,405)         -         2,900,097         (2,133,829)         2,117,002         (6,463,822)         -         813,937,168         (649,931,920)         2,117,002         (1,890,405)         -         813,937,168         (649,931,920)         2,117,002         (1,890,405)         -         813,937,168         (649,931,920)         2,117,002         (1,890,405)         -         813,937,168         (649,931,920)         2,117,002         (1,890,405)         -         813,937,168 <t< td=""></t<>

<sup>(\*)</sup> There was no transfer to level 3 and from level 3 to level 1 in 2015. The Group recognizes a transfer at the end of the reporting period when an event or circumstance causing the transfer among fair value levels is incurred.

Of the changes in the fair value of the financial assets that were measured at fair value and classified as level 3 in fair value hierarchy, current profits or losses in 2016 and 2015 were recognized as follows (Korean won in thousands):

		Decembe	r 31	,2016	December 31, 2015							
		it and loss for		Gain and loss		fit and loss for		n and loss on				
	tne	current term		on valuation	the	current term	valuation					
Assets:												
Financial assets held-for- trading:												
Derivative instruments	₩	6,022,615	₩	8,638,965	₩	4,870,824	₩	2,914,797				
Financial assets designated												
at fair value through profit or		5,479,948		1,650,136		3,609,512		143,588				
loss												
Available-for-sale financial												
assets:				( )								
Equity instruments		3,152,981		(344,967)		8,808,362		-				
Others		5,023,975		(293)		198,872		(21)				
		19,679,519		9,943,841		17,487,570		3,058,364				
Liabilities:												
Financial liabilities held-for-												
trading:												
Derivative instruments		768,575		1,748,711		(1,890,405)		(1,870,881)				
Financial liabilities designated												
at fair value through profit or		(14,257,340)		(8,087,588)		(6,463,822)		(407,462)				
loss				,		,		, ,				
		(13,488,765)		(6,338,877)		(8,354,227)	(2,278,343)					
	₩	6,190,754	₩	3,604,964	₩	9,133,343	₩	780,021				

Details of fair value, valuation technique, and inputs used to develop those measurements classified into level 3 assets and liabilities disclosure but not measured at fair value as at December 31, 2016 are as follows (Korean won in millions):

			Decembe	er 31, 2015		
	Fair value	Valuation technique	Inputs	Significant unobservable inputs	Range	Sensitivity of the input to fair value
		5014	D: 1 (		00/ 4000/ 0.040/	
₩	23,963,840	Binomial model, Black Scholes model, Monte-Carlo Simulation Reduced Form Model	RISK free rate, dividend rate, discount rate, volatility, probability default	Recovery rate Volatility	0%~100% 3.24% ~ 50.00%	Fair value increased due to the increase in recovery r ate Fair value increased due to the increase in volatility.
	280,528,001	Monte-Carlo Simulation, Cox, Ross and Rubinstein Model	Risk free rate, dividend rate discount rate stock price	Volatility Correlation	17.44% ~ 29.48% 0.27 ~ 0.70	Fair value decreased due to the increase in volatility Fair value decreased due to the increase in correlation
	344,947,155	DCF, Past deal method, Cost method	-	Growth rate Discount rate	0% ~ 1% 4.94% ~ 18.01%	Fair value increased due to the increase in growth rate Fair value decreased due to the increase in discount rate
₩	649,438,996					
	12,332,836	Binomial model Monte-Carlo Simulation, Hull&White 1 factor	Risk free rate, dividend rate, discount rate, stock price	Volatility	8.97% ~ 50.00%	Fair value decreased due to the increase in volatility
<del></del>	654,429,685	Monte- Carlo Simulation, Re duced form, Hull&White 1 zfactor Black-Scholes Model	Risk free rate, dividend rate discount rate, probability default,	Recovery rate Volatility Correlation	0% ~ 100% 11.98% ~ 41.21% 0.27 ~ 0.9472	Fair value increased due to the increase in recovery rate Fair value increased or decreased due to the increase in correlation Fair value increased due to the increased in correlation
	₩.	₩ 23,963,840 280,528,001 344,947,155 ₩ 649,438,996 12,332,836 654,429,685	FDM, Binomial model, Black Scholes model, Monte-Carlo Simulation, Cox, Ross and Rubinstein Model  12,332,836  Binomial model Monte-Carlo Simulation, Cox, Ross and Rubinstein Model  DCF, Past deal method, Cost method  12,332,836  Binomial model Monte-Carlo Simulation, Hull&White 1 factor  Monte-Carlo Simulation, Hull&White 1 factor  Monte-Carlo Simulation, Re duced form, Hull&White 1 zfactor Black-Scholes Model	FDM, Binomial model, Black Scholes model, Monte-Carlo Simulation, Cox, Ross and Rubinstein Model  DCF, Past deal method, Cost method  12,332,836  Binomial model Monte-Carlo Simulation, Cox, Ross method  Tender of the probability default  Binomial model Monte-Carlo Simulation, Cox, Ross and Rubinstein Model  DCF, Past deal method, Cost method  Tender of the probability default  Risk free rate, dividend rate discount rate stock price  Risk free rate, dividend rate discount rate, stock price  Risk free rate, dividend rate discount rate, stock price  Risk free rate, dividend rate, dividend rate, discount rate, stock price  Risk free rate, dividend rate, discount rate, stock price  Risk free rate, dividend rate, discount rate, stock price  Risk free rate, dividend rate, discount rate, stock price  Risk free rate, dividend rate, discount rate, stock price  Risk free rate, dividend rate, discount rate, stock price  Risk free rate, dividend rate, discount rate, stock price  Risk free rate, dividend rate discount rate, stock price  Risk free rate, dividend rate discount rate, stock price	Fair value  Valuation technique  FDM, Binomial model, Black Scholes model, Monte-Carlo Simulation Reduced Form Model  Monte-Carlo Simulation, Cox, Ross and Rubinstein Model  DCF, Past deal method, Cost method  12,332,836  Binomial model Monte-Carlo Simulation, Cox, Ross and Rubinstein Model  DCF, Past deal method, Cost method  12,332,836  Binomial model Monte-Carlo Simulation, Cost method  Risk free rate, dividend rate discount rate stock price  Growth rate Discount rate Discount rate dividend rate, dividend rate, dividend rate, dividend rate, dividend rate, discount rate, stock price  Wolatility  Volatility  Volatility  Correlation  Recovery rate Volatility  Correlation  Recovery rate Volatility  Correlation  Risk free rate, dividend rate, discount rate, stock price  Wolatility  Correlation  Recovery rate Volatility  Correlation  Risk free rate, dividend rate, discount rate, stock price  Wolatility  Correlation  FINAL PROVINGENTIAL PROVING	Fair value  Valuation technique  Inputs  Unobservable inputs  Range  FDM, Binomial model, Black Scholes model, Monte-Carlo Simulation, Cox, Ross and Rubinstein Model  DCF, Past deal method, Cost method  12,332,836  Binomial model Monte-Carlo Simulation, Gost method  Reduced Form Model  DCF, Past deal method, Cost method  Televice Monte-Carlo Simulation, Cost method  Risk free rate, dividend rate discount rate stock price  Growth rate Discount rate Discount rate Discount rate Volatility  17.44% ~ 29.48%  O.27 ~ 0.70  Growth rate Discount rate A.94% ~ 18.01%  Risk free rate, dividend rate discount rate stock price  Whote-Carlo Simulation, Hull&White 1 factor  Monte- Carlo Simulation, Hull&White 1 factor  Monte- Carlo Simulation, Hull&White 1 factor Black-Scholes Model  Risk free rate, dividend rate, discount rate discount rate volatility Volatility  17.44% ~ 29.48%  O.27 ~ 0.70  Service Monte- Carlo Simulation, Hull&White 1 factor Black-Scholes Model  Risk free rate, dividend rate, discount rate volatility Volatility  17.44% ~ 29.48%  Volatility  17.44% ~ 29.48%  O.27 ~ 0.70  Service Monte- Carlo Simulation, Hull&White 1 factor Black-Scholes Model

Based on changes in fair values of financial assets according to changes in unobservable input variables by using statistics method, the sensitivity analysis of financial assets is conducted by dividing into favorable changes and unfavorable changes. If fair value is influenced by more than 2 input variables, the fair value is calculated on the basis of the most favorable or the most unfavorable amount. As of December 31, 2016, the result of sensitivity analysis according to changes in input variables by financial asset is as follows (Korean won in thousands):

	Computation effect of volatility		Favorable change	ι	Jnfavorable change
Assets:					
Financial assets held for- trading	Adjustment of 10% in unobservable inputs (volatility, recovery rate)	₩	4,122,942	₩	(2,757,331)
Financial assets designated at fair value through profit or loss	Adjustment of 10% in unobservable inputs (volatility, recovery rate)		221,793		(281,093)
Available-for-sale financial assets	Adjustment 1% of growth rate, discount rate		31,490,759		(12,654,976)
			35,835,494		(15,693,400)
Liabilities:					
Derivative instruments	Adjustment of 10% in unobservable inputs (volatility, recovery rate)		262,632		(238,308)
Financial liabilities designated at fair value through profit or loss	Adjustment of 10% in unobservable inputs (volatility, recovery rate)		1,638,166		(1,580,003)
			1,900,798		(1,818,311)
		₩	37,736,292	₩	(17,511,711)

The hierarchical fair values of the financial assets, which were not measured at fair value but of which the fair values were disclosed, in the statements of financial position as of December 31, 2016 are as follows (Korean won in thousands):

					De	cember 31, 2016							
				Fair value									
		Book value		Level 1		Level 2		Level 3		Total			
Financial assets:  Cash and due from banks  (*)	\	816,956,145	\	-	\	816,956,145	\	-	\	816,956,145			
Loans receivable		5,477,539,160		-		-		5,511,969,128		5,511,969,128			
CMA (*)		28,009,548		-		-		28,009,548		28,009,548			
Lease		260,006,034		-		-		269,207,468		269,207,468			
Other financial assets (*)		486,515,402				_		486,515,402		486,515,402			
	\	7,069,026,289	\	-	\	816,956,145	\	6,295,701,546	\	7,112,657,691			
Financial liabilities:									_				
Deposits (*)	\	3,102,818,820	\	-	\	3,102,818,820	\	-	\	3,102,818,820			
Borrowings (*)		8,694,608,873		-		8,694,608,873		-		8,694,608,873			
Bonds		279,956,420		-		291,508,242		-		291,508,242			
Other financial liabilities (*)		462,861,638				<u>-</u>		462,861,638		462,861,638			
	\	12,540,245,751	\	-	\	12,088,935,935	\	462,861,638	\	12,551,797,573			

The hierarchical fair values of the financial assets, which were not measured at fair value but of which the fair values were disclosed, in the statements of financial position as of December 31, 2015 are as follows (Korean won in thousands):

Loans receivable       4,449,846,185       -       -       4,506,142,642       4,506,142         CMA (*)       54,820,249       -       -       54,820,249       54,820         Lease       471,534,869       -       -       495,303,504       495,303         Other financial assets (*)       304,854,846       -       -       304,854,846       304,854,846	December 31, 2015										
Financial assets:  Cash and due from banks (*)  Loans receivable  CMA (*)  54,820,249  Lease  Other financial assets (*)  646,068,281  - 646,068,281  - 646,068,281  - 4,506,142,642  4,506,142  4,506,142  - 54,820,249  - 54,820,249  54,820  - 495,303,504  495,303  304,854,846  - 304,854,846  304,854,846		Fair value									
Cash and due from banks       (*)       646,068,281       -       646,068,281	Book value Level	Level 3 Total									
Loans receivable       4,449,846,185       -       -       4,506,142,642       4,506,142         CMA (*)       54,820,249       -       -       54,820,249       54,820         Lease       471,534,869       -       -       495,303,504       495,303         Other financial assets (*)       304,854,846       -       -       304,854,846       304,854,846	646 068 281	- \ 646,068,28									
	4,449,846,185 54,820,249 471,534,869	4,506,142,642 4,506,142,64 54,820,249 54,820,24 495,303,504 495,303,50									
\ 5,927,124,430 \ - \ 646,068,281 \ 5,361,121,241 \ 6,007,189	5,927,124,430 \	5,361,121,241 \ 6,007,189,52									
Financial liabilities:											
Deposits (*) \ 3,463,870,841 \ - \ 3,463,870,841 \ - \ 3,463,870	3,463,870,841 \	- \ 3,463,870,84									
Bonds 279,898,600 - 296,360,098 - 296,360	279,898,600	- 296,360,09									
<u> 11,285,848,688                                </u>	11,285,848,688 \	<u>\ 457,021,002</u> \ 11,302,310,18									

<sup>(\*)</sup> Because book value was considered to be a reasonable proxy to fair value, book value was disclosed as fair value.

The following valuation methods and input variables were applied to the financial assets classified as level 2 of the financial assets, which were not measured at fair value but of which the fair values were disclosed, in the statements of financial position as of December 31, 2015 (Korean won in thousands).

	December 31, 2016	December 31, 2016	Valuation method	Input variables
Financial liabilities: Debentures (*)	₩ 291,508,242	₩ 296,360,098	DCF method	Discount rate

<sup>(\*)</sup> If book value is deemed a reasonable proxy to fair value, book value is disclosed as fair value. Therefore, valuation methods or input variables are not disclosed.

The following valuation methods, input variables and unobservable input were applied to the financial assets classified as level 3 of the financial assets, which were not measured at fair value but of which the fair values were disclosed, in the statements of financial position as of December 31, 2016 (Korean won in thousands).

	December 31, 2016	December 31, 2015	Valuation method	Input variable	Unobservable input variable
Financial assets (*):					
Loans	₩ 5,511,969,128	₩ 4,506,142,642	DCF method	Discount rate	Credit risk
Lease assets	269,207,468	495,303,504	DCF method	Discount rate	Credit risk
	₩ 5,781,176,596	₩ 5,001,446,146			

<sup>(\*)</sup> If book value is deemed a reasonable proxy to fair value, book value is disclosed as fair value. Therefore, valuation methods or input variables are not disclosed.

# 45. Offsetting of financial assets and liabilities

Details of financial assets subject to offsetting, enforceable master netting arrangements and similar agreements as of December 31, 2016 and 2015 are as follows (Korean won in thousands):

						Decembe	er 31.	2016				
			Gr	oss amounts of			,	Related amounts				_
	Gr	oss amounts of		recognized financial		Net amounts of inancial assets		statement of fina	ncia	al position (*)		
	Gi	recognized	ins	truments set off		resented in the	Enf	orceable master				
		financial		the statement of		statement of		netting	(	Cash collateral		Niet een eust
Assets:		instruments		nancial position		nancial position		arrangement		received		Net amount
Derivatives	₩	159,835,362	₩	_	₩	159,835,362	₩	(77,808,067)	₩	_	₩	82,027,295
Loans		139,033,302				109,000,002		(11,000,001)				02,021,293
Repurchase agreement		745,000,000		-		745,000,000		-		(745,000,000)		-
Other assets Receivable spot												
exchange .		46,659,606				46,659,606		(46,650,520)		-		9,086
Difference of uncollected Receivable from		14,354,596		(13,493,185)		861,411		-		-		861,411
proprietary trading		326,630,084		(86,372,416)		240,257,668		-		-		240,257,668
Receivable from trading		202 620 105		(105 607 257)		07 022 020						87,922,838
on consignment	₩	283,620,195	₩	(195,697,357)	₩	87,922,838	₩	- (10.1.150.505)	₩	(7.17.000.000)	₩	
Lighilitiaa	VV	1,576,099,843		(295,562,958)	VV	1,280,536,885	- VV	(124,458,587)	VV	(745,000,000)	77	411,078,298
Liabilities: Derivatives	₩	100 004 000	₩		₩	100 00 1 000	₩	(77,000,007)	₩	(40,000,004)	₩	45 007 704
Securities sold	vv	103,204,882 1,868,617,761	vv	-	vv	103,204,882 1,868,617,761	vv	(77,808,067)	vv	(10,009,021) (1,868,617,761)	vv	15,387,794
Borrowings										,		
Repurchase agreement Other liabilities		5,351,618,732		-		5,351,618,732		-		(5,351,618,732)		-
Payable spot exchange		46,667,720		_		46,667,720		(46,650,520)		-		17,200
Difference of unsettled		17,365,199		(13,493,185)		3,872,014		-		-		3,872,014
Accounts payable for proprietary trading		103,829,610		(86,372,416)		17,457,194		_		_		17,457,194
Accounts payable for		100,025,010		(00,072,410)		17,407,104						17,407,104
trading on consignment		282,683,538		(195,697,357)		86,986,181				<u>-</u> _		86,986,181
	₩	7,773,987,442	₩	(295,562,958)	₩	7,478,424,484	₩	(124,458,587)	₩	(7,230,245,514)	₩	123,720,383
	_		Gr	oss amounts of		Decembe	er 31,		not	set off in the		
			Gr	oss amounts of recognized		Net amounts of	er 31,	2015 Related amounts statement of fina				
	Gr	ross amounts of		recognized financial	fi	Net amounts of inancial assets		Related amounts statement of final				
	Gr	ross amounts of recognized financial	ins	recognized	fi	Net amounts of		Related amounts	ncia			
	Gr	recognized	ins in t	recognized financial truments set off	fi p	Net amounts of inancial assets resented in the	Enf	Related amounts statement of fina orceable master	ncia	al position (*)		Net amount
Assets:	_	recognized financial instruments	ins in t	recognized financial truments set off the statement of	fi P	Net amounts of inancial assets resented in the statement of nancial position	Enf	Related amounts statement of fina orceable master netting arrangement	incia (	al position (*)  Cash collateral		
Derivatives	Gr	recognized financial	ins in t	recognized financial truments set off the statement of	fi p	Net amounts of inancial assets resented in the statement of	Enf	Related amounts statement of fina orceable master netting	incia (	al position (*)  Cash collateral	₩	Net amount 48,994,729
	_	recognized financial instruments	ins in t	recognized financial truments set off the statement of	fi P	Net amounts of inancial assets resented in the statement of nancial position	Enf	Related amounts statement of fina orceable master netting arrangement	incia (	al position (*)  Cash collateral	₩	
Derivatives Loans Repurchase agreement Other assets	_	recognized financial instruments 161,586,455	ins in t	recognized financial truments set off the statement of	fi P	Net amounts of nancial assets resented in the statement of nancial position	Enf	Related amounts statement of fina orceable master netting arrangement	incia (	Cash collateral received	₩	
Derivatives Loans Repurchase agreement Other assets Receivable spot	_	recognized financial instruments  161,586,455  432,200,000	ins in t	recognized financial truments set off the statement of	fi P	Net amounts of nancial assets resented in the statement of nancial position 161,586,455 432,200,000	Enf	Related amounts statement of fina orceable master netting arrangement (112,591,726)	incia (	Cash collateral received	₩	48,994,729
Derivatives Loans Repurchase agreement Other assets Receivable spot exchange Difference of uncollected	_	recognized financial instruments 161,586,455	ins in t	recognized financial truments set off the statement of	fi P	Net amounts of nancial assets resented in the statement of nancial position	Enf	Related amounts statement of fina orceable master netting arrangement	incia (	Cash collateral received	₩	
Derivatives Loans Repurchase agreement Other assets Receivable spot exchange Difference of uncollected Receivable on proprietary	_	recognized financial instruments  161,586,455  432,200,000  107,821,400 14,655,475	ins in t	recognized financial truments set off the statement of nancial position	fi P	Net amounts of nancial assets resented in the statement of nancial position  161,586,455  432,200,000  107,821,400 2,404,554	Enf	Related amounts statement of fina orceable master netting arrangement (112,591,726)	incia (	Cash collateral received	₩	48,994,729 - 14,600 2,404,554
Derivatives Loans Repurchase agreement Other assets Receivable spot exchange Difference of uncollected	_	recognized financial instruments  161,586,455 432,200,000  107,821,400	ins in t	recognized financial truments set off the statement of lancial position	fi P	Net amounts of nancial assets resented in the statement of nancial position  161,586,455  432,200,000	Enf	Related amounts statement of fina orceable master netting arrangement (112,591,726)	incia (	Cash collateral received	₩	48,994,729 - 14,600
Derivatives Loans Repurchase agreement Other assets Receivable spot exchange Difference of uncollected Receivable on proprietary trading	_	recognized financial instruments  161,586,455  432,200,000  107,821,400 14,655,475	ins in t	recognized financial truments set off the statement of nancial position	fi P	Net amounts of nancial assets resented in the statement of nancial position  161,586,455  432,200,000  107,821,400 2,404,554	Enf	Related amounts statement of fina orceable master netting arrangement (112,591,726)	incia (	Cash collateral received	₩	48,994,729 - 14,600 2,404,554
Derivatives Loans Repurchase agreement Other assets Receivable spot exchange Difference of uncollected Receivable on proprietary trading Receivable on trading on	_	recognized financial instruments  161,586,455  432,200,000  107,821,400  14,655,475  88,831,167	ins in t	recognized financial truments set off the statement of tencial position  - (12,250,921) (60,643,043)	fi P	Net amounts of nancial assets resented in the statement of nancial position  161,586,455  432,200,000  107,821,400 2,404,554 28,188,124	Enf	Related amounts statement of fina orceable master netting arrangement (112,591,726)	incia (	Cash collateral received	₩	48,994,729 - 14,600 2,404,554 28,188,124
Derivatives Loans Repurchase agreement Other assets Receivable spot exchange Difference of uncollected Receivable on proprietary trading Receivable on trading on consignment Liabilities:	₩	recognized financial instruments  161,586,455  432,200,000  107,821,400  14,655,475  88,831,167  252,344,857	ins in t firm ₩	recognized financial truments set off the statement of tancial position  - (12,250,921) (60,643,043) (174,683,442)	fi p fii ₩	Net amounts of nancial assets resented in the statement of nancial position  161,586,455  432,200,000  107,821,400  2,404,554  28,188,124  77,661,415	Enf	Related amounts statement of fina orceable master netting arrangement (112,591,726)  - (107,806,800)	W W	Cash collateral received - (432,200,000)	₩	48,994,729 - 14,600 2,404,554 28,188,124 77,661,415
Derivatives Loans Repurchase agreement Other assets Receivable spot exchange Difference of uncollected Receivable on proprietary trading Receivable on trading on consignment  Liabilities: Derivatives	₩	recognized financial instruments  161,586,455  432,200,000  107,821,400  14,655,475  88,831,167  252,344,857  1,057,439,354  134,504,017	ins in t fir ₩	recognized financial truments set off the statement of tancial position  - (12,250,921) (60,643,043) (174,683,442)	fii p fiii ₩	Net amounts of nancial assets resented in the statement of nancial position  161,586,455  432,200,000  107,821,400 2,404,554 28,188,124 77,661,415 809,861,948	Enf	Related amounts statement of fina orceable master netting arrangement (112,591,726)  - (107,806,800)	W W	cash collateral received - (432,200,000) - (432,200,000) (11,230,135)	₩	48,994,729 - 14,600 2,404,554 28,188,124 77,661,415
Derivatives Loans Repurchase agreement Other assets Receivable spot exchange Difference of uncollected Receivable on proprietary trading Receivable on trading on consignment  Liabilities: Derivatives Securities sold	₩	recognized financial instruments  161,586,455  432,200,000  107,821,400  14,655,475  88,831,167  252,344,857  1,057,439,354	ins in t firm ₩	recognized financial truments set off the statement of tancial position  - (12,250,921) (60,643,043) (174,683,442)	fi p fii ₩	Net amounts of nancial assets resented in the statement of nancial position  161,586,455  432,200,000  107,821,400  2,404,554  28,188,124  77,661,415  809,861,948	Enf	Related amounts statement of fina orceable master netting arrangement (112,591,726)  (107,806,800)  - (107,806,800)  - (220,398,526)	W W	Cash collateral received - (432,200,000)	₩	48,994,729 14,600 2,404,554 28,188,124 77,661,415 157,263,422
Derivatives Loans Repurchase agreement Other assets Receivable spot exchange Difference of uncollected Receivable on proprietary trading Receivable on trading on consignment  Liabilities: Derivatives Securities sold Borrowings Repurchase agreement	₩	recognized financial instruments  161,586,455  432,200,000  107,821,400  14,655,475  88,831,167  252,344,857  1,057,439,354  134,504,017	ins in t firm ₩	recognized financial truments set off the statement of tancial position  - (12,250,921) (60,643,043) (174,683,442)	fi p fii ₩	Net amounts of nancial assets resented in the statement of nancial position  161,586,455  432,200,000  107,821,400 2,404,554 28,188,124 77,661,415 809,861,948	Enf	Related amounts statement of fina orceable master netting arrangement (112,591,726)  (107,806,800)  -  (220,398,526)	W W	cash collateral received - (432,200,000) - (432,200,000) (11,230,135)	₩	48,994,729 14,600 2,404,554 28,188,124 77,661,415 157,263,422
Derivatives Loans Repurchase agreement Other assets Receivable spot exchange Difference of uncollected Receivable on proprietary trading Receivable on trading on consignment  Liabilities: Derivatives Securities sold Borrowings Repurchase agreement Other liabilities	₩	recognized financial instruments  161,586,455  432,200,000  107,821,400     14,655,475  88,831,167     252,344,857  1,057,439,354  134,504,017     571,699,111  5,324,808,245	ins in t firm ₩	recognized financial truments set off the statement of tancial position  - (12,250,921) (60,643,043) (174,683,442)	fi p fii ₩	Net amounts of nancial assets resented in the statement of nancial position  161,586,455  432,200,000  107,821,400 2,404,554 28,188,124 77,661,415 809,861,948  134,504,017 571,699,111 5,324,808,245	Enf	Related amounts statement of fina orceable master netting arrangement (112,591,726)  (107,806,800)  - (220,398,526)  (112,591,726)	W W	Cash collateral received  - (432,200,000)  - (432,200,000)  (11,230,135) (571,699,111)	₩	48,994,729  14,600 2,404,554 28,188,124 77,661,415 157,263,422  10,682,156
Derivatives Loans Repurchase agreement Other assets Receivable spot exchange Difference of uncollected Receivable on proprietary trading Receivable on trading on consignment  Liabilities: Derivatives Securities sold Borrowings Repurchase agreement	₩	recognized financial instruments  161,586,455 432,200,000  107,821,400 14,655,475 88,831,167 252,344,857 1,057,439,354  134,504,017 571,699,111	ins in t firm ₩	recognized financial truments set off the statement of tancial position  - (12,250,921) (60,643,043) (174,683,442)	fi p fii ₩	Net amounts of nancial assets resented in the statement of nancial position  161,586,455  432,200,000  107,821,400 2,404,554 28,188,124 77,661,415 809,861,948  134,504,017 571,699,111	Enf	Related amounts statement of fina orceable master netting arrangement (112,591,726)  (107,806,800)  -  (220,398,526)	W W	Cash collateral received  - (432,200,000)  - (432,200,000)  (11,230,135) (571,699,111)	₩	48,994,729 14,600 2,404,554 28,188,124 77,661,415 157,263,422
Derivatives Loans Repurchase agreement Other assets Receivable spot exchange Difference of uncollected Receivable on proprietary trading Receivable on trading on consignment  Liabilities: Derivatives Securities sold Borrowings Repurchase agreement Other liabilities Payable spot exchange Difference of unsettled Accounts payable for	₩	recognized financial instruments  161,586,455 432,200,000  107,821,400 14,655,475 88,831,167 252,344,857 1,057,439,354  134,504,017 571,699,111 5,324,808,245 107,822,900 13,966,988	ins in t firm ₩	recognized financial truments set off the statement of nancial position  - (12,250,921) (60,643,043) (174,683,442) (247,577,406)  - (12,250,921)	fi p fii ₩	Net amounts of inancial assets resented in the statement of inancial position  161,586,455  432,200,000  107,821,400 2,404,554 28,188,124 77,661,415 809,861,948  134,504,017 571,699,111 5,324,808,245 107,822,900 1,716,067	Enf	Related amounts statement of fina orceable master netting arrangement (112,591,726)  (107,806,800)  - (220,398,526)  (112,591,726)	W W	Cash collateral received  - (432,200,000)  - (432,200,000)  (11,230,135) (571,699,111)	₩	48,994,729  14,600 2,404,554 28,188,124 77,661,415 157,263,422  10,682,156 - 16,100 1,716,067
Derivatives Loans Repurchase agreement Other assets Receivable spot exchange Difference of uncollected Receivable on proprietary trading Receivable on trading on consignment  Liabilities: Derivatives Securities sold Borrowings Repurchase agreement Other liabilities Payable spot exchange Difference of unsettled	₩	recognized financial instruments  161,586,455  432,200,000  107,821,400 14,655,475 88,831,167 252,344,857 1,057,439,354  134,504,017 571,699,111 5,324,808,245 107,822,900	ins in t firm ₩	recognized financial truments set off the statement of hancial position  - (12,250,921) (60,643,043) (174,683,442) (247,577,406)	fi p fii ₩	Net amounts of nancial assets resented in the statement of nancial position  161,586,455 432,200,000  107,821,400 2,404,554 28,188,124 77,661,415 809,861,948  134,504,017 571,699,111 5,324,808,245 107,822,900	Enf	Related amounts statement of fina orceable master netting arrangement (112,591,726)  (107,806,800)  - (220,398,526)  (112,591,726)	W W	Cash collateral received  - (432,200,000)  - (432,200,000)  (11,230,135) (571,699,111)	₩	48,994,729
Derivatives Loans Repurchase agreement Other assets Receivable spot exchange Difference of uncollected Receivable on proprietary trading Receivable on trading on consignment  Liabilities: Derivatives Securities sold Borrowings Repurchase agreement Other liabilities Payable spot exchange Difference of unsettled Accounts payable for proprietary trading	₩	recognized financial instruments  161,586,455 432,200,000  107,821,400 14,655,475 88,831,167 252,344,857 1,057,439,354  134,504,017 571,699,111 5,324,808,245 107,822,900 13,966,988	ins in t firm ₩	recognized financial truments set off the statement of nancial position  - (12,250,921) (60,643,043) (174,683,442) (247,577,406)  - (12,250,921)	fi p fii ₩	Net amounts of inancial assets resented in the statement of inancial position  161,586,455  432,200,000  107,821,400 2,404,554 28,188,124 77,661,415 809,861,948  134,504,017 571,699,111 5,324,808,245 107,822,900 1,716,067	Enf	Related amounts statement of fina orceable master netting arrangement (112,591,726)  (107,806,800)  - (220,398,526)  (112,591,726)	W W	Cash collateral received  - (432,200,000)  - (432,200,000)  (11,230,135) (571,699,111)	₩	48,994,729  14,600 2,404,554 28,188,124 77,661,415 157,263,422  10,682,156 - 16,100 1,716,067
Derivatives Loans Repurchase agreement Other assets Receivable spot exchange Difference of uncollected Receivable on proprietary trading Receivable on trading on consignment  Liabilities: Derivatives Securities sold Borrowings Repurchase agreement Other liabilities	₩	recognized financial instruments  161,586,455  432,200,000  107,821,400	ins in t firm ₩	recognized financial truments set off the statement of tancial position  - (12,250,921) (60,643,043) (174,683,442)	fi p fii ₩	Net amounts of nancial assets resented in the statement of nancial position  161,586,455  432,200,000  107,821,400 2,404,554 28,188,124 77,661,415 809,861,948  134,504,017 571,699,111 5,324,808,245	Enf	Related amounts statement of fina orceable master netting arrangement (112,591,726)  (107,806,800)  - (220,398,526)  (112,591,726)	W W	Cash collateral received  - (432,200,000)  - (432,200,000)  (11,230,135) (571,699,111)	₩	48,994,729  14,600 2,404,554 28,188,124 77,661,415 157,263,422  10,682,156
Derivatives Loans Repurchase agreement Other assets Receivable spot exchange Difference of uncollected Receivable on proprietary trading Receivable on trading on consignment  Liabilities: Derivatives Securities sold Borrowings Repurchase agreement Other liabilities Payable spot exchange Difference of unsettled Accounts payable for proprietary trading Accounts payable for	₩	recognized financial instruments  161,586,455  432,200,000  107,821,400	ins in t firm ₩	recognized financial truments set off the statement of hancial position  - (12,250,921) (60,643,043) (174,683,442) (247,577,406)  - (12,250,921) (60,643,043)	fi p fii ₩	Net amounts of nancial assets resented in the statement of nancial position  161,586,455  432,200,000  107,821,400 2,404,554 28,188,124 77,661,415 809,861,948  134,504,017 571,699,111 5,324,808,245 107,822,900 1,716,067 9,626,878	Enf	Related amounts statement of fina orceable master netting arrangement (112,591,726)  (107,806,800)  - (220,398,526)  (112,591,726)	W W	Cash collateral received  - (432,200,000)  - (432,200,000)  (11,230,135) (571,699,111)	₩	48,994,729
Derivatives Loans Repurchase agreement Other assets Receivable spot exchange Difference of uncollected Receivable on proprietary trading Receivable on trading on consignment  Liabilities: Derivatives Securities sold Borrowings Repurchase agreement Other liabilities Payable spot exchange Difference of unsettled Accounts payable for proprietary trading Accounts payable for	₩	recognized financial instruments  161,586,455  432,200,000  107,821,400	ins in t firm ₩	recognized financial truments set off the statement of hancial position  - (12,250,921) (60,643,043) (174,683,442) (247,577,406)  - (12,250,921) (60,643,043)	fi p fii ₩	Net amounts of nancial assets resented in the statement of nancial position  161,586,455  432,200,000  107,821,400 2,404,554 28,188,124 77,661,415 809,861,948  134,504,017 571,699,111 5,324,808,245 107,822,900 1,716,067 9,626,878	Enf	Related amounts statement of fina orceable master netting arrangement (112,591,726)  (107,806,800)  - (220,398,526)  (112,591,726)	W W	Cash collateral received  - (432,200,000)  - (432,200,000)  (11,230,135) (571,699,111)	₩	48,994,729

<sup>(\*)</sup> The rights to offset exist only in case of default and others. Accordingly, the amounts are not offset in the statement of financial position as they do not meet the criteria for offsetting.

## 46. Deferred day 1 profit or loss

Changes in deferred day 1 profit or loss, for the years ended December 31, 2016 and 2015 are as follows (Korean won in millions):

	Ye	ear ended Dec	ber 31, 2016	Year ended December 31, 2015				
		Assets		Liabilities		Assets		Liabilities
Beginning	\	(693,715)	\	(21,685)	\	(665,276)	\	(29,343)
Increase		2,466,790		429,894		221,693		(55,927)
Decrease		126,102		(5,317)		(250,132)		63,585
Ending		1,899,177	\	402,892	\	(693,715)	\	(21,685)

#### 47. Risk management

The Group is exposed to credit risk, liquidity risk, market risk and operational risk of its financial instruments. Risk management is the basic activities to effectively use the Group's limited capital under the rapidly changing financial circumstances. The ultimate goal of risk management is to maximize the Group's shareholder value while minimizing the sudden fluctuation of its income through a proper balance between risks and returns.

The basic policies for managing risk are as follows:

- (i) Set the limits and comply with them for each risk, and strike a balance between risk and return.
- (ii) When a conflict exists between risk and return, the Group should seek to increase return withoutexceeding the risk limits.
- (iii) Spread the risks to prevent them from being concentrated in specific areas.
- (iv) Analyze the effect of various market fluctuations on parts of or entire portfolio on a regular basis.
- (v) Separate risk management segment, operating segment, and segment that deals with tradeconfirmation and payments to maintain independence from one another.

Risk management committee is responsible for setting maximum permissible limits for each risk, and the risk management conference is responsible for checking compliance with the limit and the risk levels.

Risk management committee is the top decision-making body within the Board of Directors for risk management. Through risk management committee, the Group establishes the control system of risk management from top management to operating segment. However, risk management conference is a subordinate committee for risk management and practices risk management by business unit in detail.

Risk management center consists of risk management team and credit risk analysis team. Risk management team manages market risk, liquidity risk, operational risk and capital and credit risk analysis team to perform credit risk analysis of counterparties and assessment on loan contracts. Risk management center deals with monitoring of risk position, risk measurement, identification of assets exposed to risk and forecasting change of risk position.

#### Credit risk

Credit risk is the risk that the Group will incur a loss because its customers or counterparties fail to discharge their contractual obligations. Credit risk arises from on-balance and off-balance accounts including loans, financial guarantees, securities and derivatives. The purpose to manage the credit risk is to control the relevant losses upon the counterparties' default, for a certain period, within the allowable range.

Credit risk management is performed by the risk management committee and judging committee, risk management conference and credit risk management department which is a subordinate organization of the risk management center.

Risk management committee establishes risk management strategy through the periodical report on asset management and portfolio construction. Judging committee is delegated to deal with all the matters. Credit risk management department, which is separated from operating segments, manages the overall credit risk of the Group and operates the credit risk management system.

#### Credit risk management

#### Loans

Performing comprehensive analysis on economic environments and changes, the Group reduces credit concentration by setting credit limits on same counterparties to ensure asset quality.

The Group measures and manages risk indicators of each operating segment. Also, the Group regularly examines the counterparties whose credit ratings are likely to be degraded.

As to large credit, the Group examines the customer's credit and adequacy of credit evaluation as part of the subsequent management process. In addition, the Group conducts focused examinations on industries or groups with increasing credit risks and performs sample inspections on small loans.

#### **Debt securities**

The Group controls credit exposure of debt securities through either the agencies' ratings of creditworthiness or its own rating. The debt securities are held as a means of maintaining resources in order to keep high credit rating as well as to meet the demands of financing.

### Risk reduction policy

#### Collateral

The Group manages various policies and practices so as to reduce credit risks. Acquisition of collateral on loans is conventional method to reduce credit, and collaterals for secured loans are mainly deposits and financial instruments such as debt securities or equity securities. Collaterals on financial assets other than loans are decided by the attributes of the financial instruments. Debt securities are usually unsecured; asset backed securities or other similar instruments are secured by financial instrument portfolio.

#### **Derivatives**

Considering the notional exposure, the amount exposed to credit risk remains within small limits. Credit exposure is managed and controlled through limiting the counterparty risks such as latent exposure to market fluctuations.

## **Master netting arrangement**

The Group limits credit exposure by entering into a 'master netting agreement' with the counterparties in the high volume trading. Generally such an agreement is settled by gross, and therefore assets and liabilities related to it are not offset in the financial statements of position. However, in case the remaining contracts are settled net at the end because default occurs, credit risk related to profitable contracts decreases. Due to the impact of individual trades, total credit exposure can vary substantially in the short term.

## Maximum exposure to credit risk

The maximum exposure to credit risk as of December 31, 2016 and 2015 is as follows. The Group does not consider risk reduction obtained by collaterals or other. Equity securities in the trading financial assets and available-for-sale financial assets are excluded. (Korean won in thousands):

	December 31, 2016		December 31, 2015
On balance accounts:			
Cash and due from banks	₩	816,956,144	₩ 646,068,280
Financial assets held-for-trading		6,936,012,372	6,605,762,262
Derivative instruments		128,206,238	146,196,291
Financial assets designated at fair value through profit or loss		149,044,902	35,499,839
Available-for-sale financial assets		1,223,771,001	390,374,823
Loans		5,560,775,858	4,594,570,403
CMA management assets		28,100,000	55,000,000
Lease assets		264,854,951	477,850,702
Other financial assets		490,370,676	309,878,256
	₩	15,598,092,142	₩13,261,200,856
Off balance accounts:			
Commitments on loans	₩	2,673,591,645	₩ 3,261,264,354
ABCP Purchase agreement		294,370,000	116,059,600
	₩	2,967,961,645	₩ 3,377,323,954

Impaired or neither past due nor impaired loans among loans, cash management account assets, finance lease assets and other financial assets as of December 31, 2016 and 2015 are as follow (Korean won in thousands):

	Neither past due nor impaired	Past due but not impaired	Impaired	Total	
Loans:					
Call loans	₩ 60	₩ -	₩ -	₩ 60	
Repurchase agreement	745,000,000	-	-	745,000,000	
Granting of credit	605,566,566	96,841	-	605,663,407	
Loans to employees	2,875,974	-	68,673	2,944,647	
Loans	3,744,716,533	3,211,509	96,019,974	3,843,948,016	
Short-term note trading	72,300,000	-	-	72,300,000	
Loans purchased	118,170,349	-	52,364,954	170,535,303	
Privately-placed bonds	114,326,636	-	1,658,000	115,984,636	
Advance for customers	33,793	-	4,365,996	4,399,789	
Allowance for possible loan losses	(22,323,657)	(53,612)	(46,731,814)	(69,109,083)	
	5,380,666,254	3,254,738	107,745,783	5,491,666,775	
CMA management assets:					
Notes discounted	28,100,000	-	-	28,100,000	
Allowance for possible loan losses	(90,452)	_		(90,452)	
	28,009,548	-	-	28,009,548	

	December 31, 2016											
	N	either past due nor impaired	Pa	ast due but not impaired		Impaired		Total				
Lease assets:												
Financial lease receivables		241,253,435		19,601,256		4,000,260		264,854,951				
Allowance for possible loan losses	(2,331,053)			(205,827)		(2,312,037)		(4,848,917)				
		238,922,382		19,395,429	-	1,688,223		260,006,034				
Other financial assets (*):												
Other financial assets		486,828,921		-		3,541,755		490,370,676				
Allowance for possible loan losses		(125,275)		-		(3,428,250)		(3,553,525)				
		486,703,646	•	-		113,505		486,817,151				
	₩	6,134,301,830	₩	22,650,167	₩	₩ 109,547,511		6,266,499,508				
		December 31, 2015										
	N	either past due	Pa	st due but not	101,	2010						
		nor impaired		impaired		Impaired		Total				
Loans:												
Call loans	₩	1,424,923	₩	-	₩	-	₩	1,424,923				
Repurchase agreement		432,200,000		-		-		432,200,000				
Granting of credit		438,078,848		164,626		-		438,243,474				
Loans to employees		3,078,501		-		69,746		3,148,247				
Loans		3,275,871,114		9,847,763		161,200,549		3,446,919,426				
Short-term note trading		178,300,000		-		-		178,300,000				
Loans purchased		24,924,809		-		11,672,273		36,597,082				
Privately-placed bonds		48,673,997		-		1,752,000		50,425,997				
Advance for customers	44,693			-	7,266,561			7,311,254				
Allowance for possible loan losses		(22,417,148)		(171,971)		(111,590,143)		(134,179,262)				
CMA management accets:		4,380,179,737		9,840,418		70,370,986		4,460,391,141				
CMA management assets:  Notes discounted		55,000,000		-		-		55,000,000				
Allowance for possible loan losses		(179,751)		-		-		(179,751)				
		54,820,249		-		-		54,820,249				
Lease assets:												
Financial lease receivables Allowance for possible loan		460,460,159		13,215,143		4,175,400		477,850,702				
losses		(4,756,787)		(200,746)		(1,358,300)		(6,315,833)				
	₩	455,703,372		13,014,397		2,817,100		471,534,869				
Other financial assets (*):		005 044 504				4 000 700		000 070 057				
Other financial assets Allowance for possible loan		305,044,531		-		4,833,726		309,878,257				
losses		(151,138)		-		(4,545,534)		(4,696,672)				
		304,893,393		-		288,192		305,181,585				
	₩	5,195,596,751	₩	22,854,815	₩	73,476,278	₩	5,291,927,844				

<sup>(\*)</sup> Items that do not meet the definition of loans and receivables were excluded from other assets.

Loans that are past due but not impaired as of December 31, 2016 and 2015 consist of the following (Korean won in thousands):

	De	De	December 31, 2015		
Less than 30 days	₩	19,888,411	₩	12,919,536	
30 to 60 days		2,030,460		3,143,735	
60 to 90 days		990,735		7,164,261	

## **Impaired loans**

The details of impaired loans as of December 31, 2016 and 2015 are as follow (Korean won in thousands):

		Decembe	r 31,	2016	December 31, 2015						
	Loans			llowance for ossible loan losses		Loans	Allowance for possible loan losses				
Loans:	LUAIIS			102262		LUAIIS		105562			
Loans to employees	₩	68,673	₩	68,673	₩	69,746	₩	69,746			
Loans		96,019,974		33,280,815		161,200,549		96,337,771			
Loans purchased		52,364,954		7,358,330		11,672,273		6,264,064			
Privately-placed bonds		1,658,000		1,658,000		1,752,000		1,652,000			
Advance for customers		4,365,996		4,365,996		7,266,561		7,266,561			
		154,477,597		46,731,814		181,961,129		111,590,142			
Lease assets		4,000,260		2,312,037		4,175,400		1,358,300			
Other financial assets:											
Receivables from trading on consignment		628,672		628,672		1,141,295		1,141,295			
Other receivables		2,329,541		2,216,036		2,703,397		2,415,206			
Accrued income		583,542		583,542		989,034		989,034			
		3,541,755		3,428,250		4,833,726		4,545,535			
	₩	162,019,612	₩	52,472,101	₩	190,970,255	₩	117,493,977			

Details on the classification of total loans receivable as of December 31, 2016 and 2015 consist of the following (Korean won in thousands):

Call loans " " " " " " " " " " " " " " " " " " "	Allowance for				ecember 31, 2016				
Loans:  Call loans					Classification				
Loans:  Call loans	possible loan losses	stimated loss		Doubtful	Substandard	Pre-cautionary	Normal	Amount	
Cail loans									Loans:
Partirehase agreements 745 000 000 745 000 000	₩ -	-	- ₩	₩ -	₩ -	₩ -	₩ 60	₩ 60	Call loans
Repulchase agreements 745,000,000 745,000,000	-	-	-	-	-	-	745,000,000	745,000,000	Repurchase agreements
Broker's loan 605,663,407 605,663,407	-	-	-	-	-	-			
Loans to employees 2,944,647 2,875,974 68,673	68,673	,	-	-		<del>.</del>	, , -	,- ,-	
Loans 3,843,948,016 3,746,812,308 16,115,734 54,424,128 6,924,440 19,671,406	56,417,674	19,671,406	10	6,924,440	54,424,128	16,115,734			
Notes discounted 72,300,000 72,300,000	276,393		-	-		-		, ,	
Loans purchased 170,535,303 118,170,350 - 47,827,719 - 4,537,234	7,513,521	4,537,234	-	-	47,827,719	-			
Privately-placed bonds 115,984,636 115,984,636	466,826 4,365,996	4 265 006	-	-	-	-			
Advance for customers 4,0357,035 5.40,588 5.406,840,528 16,115,734 102,251,847 6,924,440 28,643,309	69.109.083		10	6 924 440	102 251 847	16 115 73/			Advance for customers
CMA management assets:	03,103,003	20,040,000	10	0,524,440	102,201,047	10,113,734	3,400,040,320	3,300,773,030	CMA management assets:
CMA short-term note trading 28.100,000 28.100,000	90,452	-	_	-		_	28.100.000	28.100.000	
Lease assets:	,						-,,	-,,	
Financial lease receivables 264,854,951 259,560,368 1,294,323 1,886,729 - 2,113,531	4,848,917	2,113,531	-	-	1,886,729	1,294,323	259,560,368	264,854,951	Financial lease receivables
Other financial assets:									
Accounts receivable 354,904,457 348,287,491 3,658,753 - 454,020 2,504,193	2,969,983	2,504,193	20	454,020	-	3,658,753			
Receivable spot exchange 46,659,606 46,659,606	-	-	-	-	-	-			
Accrued income 80,870,283 80,286,741 583,542 Others 7,936,330 7,936,330	583,542	583,542	-	-	-	-			
490,370,676 483,170,168 3,658,753 - 454,020 3,087,735	3,553,525	3 087 735		454 020	<del></del>	3 658 753			Others
	<del>3,555,525</del> ₩ 77,601,977		<del></del>		₩ 104 139 E76				
December 31, 2015									
				;	ecember 31, 2015	1			
Classification	Allowance for			5				-	
Classification	possible loan	stimated loss			Classification		Normal	Amount	
Classification  Amount Normal Pre-cautionary Substandard Doubtful Estimated loss		stimated loss			Classification		Normal	Amount	Loans
Classification  Amount Normal Pre-cautionary Substandard Doubtful Estimated loss  Loans:	possible loan losses	stimated loss		Doubtful	Classification Substandard	Pre-cautionary			
Classification           Amount         Normal         Pre-cautionary         Substandard         Doubtful         Estimated loss           Loans:         Call loans         ₩ 1,424,923         ₩ 1,424,923         ₩ - ₩ - ₩ - ₩ - ₩ - ₩ - ₩ - ₩	possible loan	stimated loss		Doubtful	Classification Substandard	Pre-cautionary	₩ 1,424,923	₩ 1,424,923	Call loans
Amount         Normal         Pre-cautionary         Substandard         Doubtful         Estimated loss           Loans:           Call loans Repurchase agreements         ₩ 1,424,923 W 1,424,923 W - W - W - W - W - CALL         W - W - W - W - W - W - W - W - W - W -	possible loan losses	stimated loss		Doubtful	Classification Substandard	Pre-cautionary	₩ 1,424,923 432,200,000	₩ 1,424,923 432,200,000	Call loans Repurchase agreements
Amount         Normal         Pre-cautionary         Substandard         Doubtful         Estimated loss           Loans:           Call loans         ₩         1,424,923         ₩         1,424,923         ₩         -         ₩         -         ₩         -         ₩         -         ₩         -	possible loan losses ₩ -	- - -		Doubtful	Classification Substandard	Pre-cautionary	₩ 1,424,923 432,200,000 438,243,474	₩ 1,424,923 432,200,000 438,243,474	Call loans Repurchase agreements Broker's loan
Classification           Loans:         Amount         Normal         Pre-cautionary         Substandard         Doubtful         Estimated loss           Call loans Repurchase agreements         ₩ 1,424,923 ₩ 1,424,923 ₩ - ₩ - ₩ - ₩ - ₩ -  ₩ -  ₩ -  ₩ -  ₩	possible loan losses	- - 69,746	- <del>V</del>	Doubtful  ₩ -	Classification  Substandard	Pre-cautionary  ₩ -	₩ 1,424,923 432,200,000 438,243,474 3,078,501	₩ 1,424,923 432,200,000 438,243,474 3,148,247	Call loans Repurchase agreements Broker's loan Loans to employees
Loans:         Amount         Normal         Pre-cautionary         Substandard         Doubtful         Estimated loss           Call loans         ₩ 1,424,923         ₩ 1,424,923         ₩ 1,424,923         ₩ - ₩ - ₩ - ₩ - ₩ - ₩ - ₩ - ₩ - ₩ - ₩ -	possible loan losses  ₩ 69,746	- - 69,746	- <del>V</del>	Doubtful  ₩ -	Classification  Substandard	Pre-cautionary  ₩ -	₩ 1,424,923 432,200,000 438,243,474 3,078,501 3,224,388,366	₩ 1,424,923 432,200,000 438,243,474 3,148,247 3,446,919,426	Call loans Repurchase agreements Broker's loan Loans to employees Loans
Loans:         Amount         Normal         Pre-cautionary         Substandard         Doubtful         Estimated loss           Call loans         ₩ 1,424,923         ₩ 1,424,923         ₩ 1,424,923         ₩ - ₩ - ₩ - ₩ - ₩ - ₩ - ₩ - ₩ - ₩ - ₩ -	possible loan losses  ₩ - 69,746 117,153,322	69,746 76,324,820	- <del>V</del>	Doubtful  ₩ -	Classification  Substandard  W - 61,596,439	Pre-cautionary  ₩ -	₩ 1,424,923 432,200,000 438,243,474 3,078,501 3,224,388,366 178,300,000	₩ 1,424,923 432,200,000 438,243,474 3,148,247 3,446,919,426 178,300,000	Call loans Repurchase agreements Broker's loan Loans to employees Loans Notes discounted
Loans:         Amount         Normal         Pre-cautionary         Substandard         Doubtful         Estimated loss           Call loans         ₩ 1,424,923         ₩ 1,424,923         ₩ - ₩ - ₩ - ₩ - ₩ - ₩ - ₩         - ₩ ₩           Repurchase agreements         432,200,000         432,200,000	possible loan losses  W	69,746 76,324,820 5,093,283	- <del>V</del>	Doubtful  ₩ -	Classification  Substandard  W - 61,596,439	Pre-cautionary  ₩ -	₩ 1,424,923 432,200,000 438,243,474 3,078,501 3,224,388,366 178,300,000 24,924,809 50,425,997	₩ 1,424,923 432,200,000 438,243,474 3,148,247 3,446,919,426 178,300,000 36,597,082 50,425,997	Call loans Repurchase agreements Broker's loan Loans to employees Loans Notes discounted Loans purchased Privately-placed bonds
Loans:         Amount         Normal         Pre-cautionary         Substandard         Doubtful         Estimated loss           Call loans Repurchase agreements Broker's loan Loans to employees         432,200,000 432,200,000 432,200,000	possible loan losses  W 69,746 117,153,322 340,284 6,706,712 152,136 7,266,561	69,746 76,324,820 - 5,093,283 - 7,266,561	- \forall .	Doubtful  ₩ 8,279,291	Classification  Substandard  W - 61,596,439 6,578,990	Pre-cautionary  ₩ 76,330,510	₩ 1,424,923 432,200,000 438,243,474 3,078,501 3,224,388,366 178,300,000 24,924,809 50,425,997 44,693	₩ 1,424,923 432,200,000 438,243,474 3,148,247 3,446,919,426 178,300,000 36,597,082 50,425,997 7,311,254	Call loans Repurchase agreements Broker's loan Loans to employees Loans Notes discounted Loans purchased Privately-placed bonds
Loans:         Amount         Normal         Pre-cautionary         Substandard         Doubtful         Estimated loss           Call loans Repurchase agreements Repurchase agreements Broker's loan         432,200,000         432,200,000         •	possible loan losses  W	69,746 76,324,820 - 5,093,283 - 7,266,561	- \forall .	Doubtful  ₩ 8,279,291	Classification  Substandard  ₩ -  61,596,439  6,578,990	Pre-cautionary  ₩ 76,330,510	₩ 1,424,923 432,200,000 438,243,474 3,078,501 3,224,388,366 178,300,000 24,924,809 50,425,997 44,693	₩ 1,424,923 432,200,000 438,243,474 3,148,247 3,446,919,426 178,300,000 36,597,082 50,425,997 7,311,254	Call loans Repurchase agreements Broker's loan Loans to employees Loans Notes discounted Loans purchased Privately-placed bonds Advance for customers
Loans:         Amount         Normal         Pre-cautionary         Substandard         Doubtful         Estimated loss           Call loans Repurchase agreements Repurchase agreements Broker's loan Loans to employees         432,200,000 432,200,000 -	possible loan losses  W - 69,746 117,153,322 340,284 6,706,712 152,136 7,266,561 131,688,761	69,746 76,324,820 - 5,093,283 - 7,266,561	- \forall .	Doubtful  ₩ 8,279,291	Classification  Substandard  ₩ -  61,596,439  6,578,990	Pre-cautionary  ₩ 76,330,510	₩ 1,424,923 432,200,000 438,243,474 3,078,501 3,224,388,366 178,300,000 24,924,809 50,425,997 44,693 4,353,030,763	₩ 1,424,923 432,200,000 438,243,474 3,148,247 3,446,919,426 178,300,000 36,597,082 50,425,997 7,311,254 4,594,570,403	Call loans Repurchase agreements Broker's loan Loans to employees Loans Notes discounted Loans purchased Privately-placed bonds Advance for customers CMA management assets:
Loans:         Amount         Normal         Pre-cautionary         Substandard         Doubtful         Estimated loss           Call loans Repurchase agreements Repurchase agreements Broker's loan Loans to employees 3,148,247 4 438,243,474 438,243,	possible loan losses  W 69,746 117,153,322 340,284 6,706,712 152,136 7,266,561	69,746 76,324,820 - 5,093,283 - 7,266,561	- \forall .	Doubtful  ₩ 8,279,291	Classification  Substandard  ₩ -  61,596,439  6,578,990	Pre-cautionary  ₩ 76,330,510	₩ 1,424,923 432,200,000 438,243,474 3,078,501 3,224,388,366 178,300,000 24,924,809 50,425,997 44,693 4,353,030,763	₩ 1,424,923 432,200,000 438,243,474 3,148,247 3,446,919,426 178,300,000 36,597,082 50,425,997 7,311,254 4,594,570,403	Call loans Repurchase agreements Broker's loan Loans to employees Loans Notes discounted Loans purchased Privately-placed bonds Advance for customers  CMA management assets: CMA Short-term note trading
Loans:         Amount         Normal         Pre-cautionary         Substandard         Doubtful         Estimated loss           Call loans         ₩ 1,424,923         ₩ 1,424,923         ₩ 1 , ₩ - ₩ - ₩ - ₩ - ₩ - ₩ - ₩ - ₩ - ₩ - ₩	possible loan losses  W 69,746 117,153,322 340,284 6,706,712 152,136 7,266,561 131,688,761	69,746 76,324,820 5,093,283 7,266,561 88,754,410	- \forall .	Doubtful  ₩ 8,279,291	Classification  Substandard  W - 61,596,439 6,578,990 - 68,175,429	Pre-cautionary  ₩ 76,330,510 76,330,510	₩ 1,424,923 432,200,000 438,243,474 3,078,501 3,224,388,366 178,300,000 24,924,809 50,425,997 44,693 4,353,030,763	₩ 1,424,923 432,200,000 438,243,474 3,148,247 3,446,919,426 178,300,000 36,597,082 50,425,997 7,311,254 4,594,570,403 55,000,000	Call loans Repurchase agreements Broker's loan Loans to employees Loans Notes discounted Loans purchased Privately-placed bonds Advance for customers  CMA management assets: CMA Short-term note trading Lease assets:
Loans:         Amount         Normal         Pre-cautionary         Substandard         Doubtful         Estimated loss           Call loans Repurchase agreements Repurchase agreements Broker's loan         432,200,000         432,200,000         • • • • • • • • • • • • • • • • • • •	possible loan losses  W - 69,746 117,153,322 340,284 6,706,712 152,136 7,266,561 131,688,761	69,746 76,324,820 5,093,283 7,266,561 88,754,410	- \forall .	Doubtful  ₩ 8,279,291	Classification  Substandard  W - 61,596,439 6,578,990 - 68,175,429	Pre-cautionary  ₩ 76,330,510 76,330,510	₩ 1,424,923 432,200,000 438,243,474 3,078,501 3,224,388,366 178,300,000 24,924,809 50,425,997 44,693 4,353,030,763	₩ 1,424,923 432,200,000 438,243,474 3,148,247 3,446,919,426 178,300,000 36,597,082 50,425,997 7,311,254 4,594,570,403 55,000,000	Call loans Repurchase agreements Broker's loan Loans to employees Loans Notes discounted Loans purchased Privately-placed bonds Advance for customers  CMA management assets: CMA Short-term note trading Lease assets: Financial lease receivables
Loans:         Amount         Normal         Pre-cautionary         Substandard         Doubtful         Estimated loss           Call loans         ₩ 1,424,923         № 1,242,438,424         1.22,438,424         1.22,438,424         1.22,438,424         1.22,438,424         1.22,438,424         1.22,438,424         1.22,438,424,424,424         1.22,438,424,424,424         1.22,438,424,424	possible loan losses  W 69,746 117,153,322 340,284 6,706,712 152,136 7,266,561 131,688,761	69,746 76,324,820 - 5,093,283 - 7,266,561 88,754,410 - 1,161,337	- <del>V</del> 91 	Doubtful  ₩	Classification  Substandard  W - 61,596,439 6,578,990 - 68,175,429	Pre-cautionary  ₩ 76,330,510 76,330,510 3,253,946	₩ 1,424,923 432,200,000 438,243,474 3,078,501 3,224,388,366 178,300,000 24,924,809 50,425,997 44,693 4,353,030,763 55,000,000 470,421,356	₩ 1,424,923 432,200,000 438,243,474 3,148,247 3,446,919,426 178,300,000 36,597,082 50,425,997 7,311,254 4,594,570,403 55,000,000 477,850,702	Call loans Repurchase agreements Broker's loan Loans to employees Loans Notes discounted Loans purchased Privately-placed bonds Advance for customers  CMA management assets: CMA Short-term note trading Lease assets: Financial lease receivables Other financial assets:
Loans:         Amount         Normal         Pre-cautionary         Substandard         Doubtful         Estimated loss           Call loans Repurchase agreements Repurchase agreements Broker's loan Loans to employees 3,148,247,44         432,200,000         432,200,000	possible loan losses  W - 69,746 117,153,322 340,284 6,706,712 152,136 7,266,561 131,688,761 179,751	69,746 76,324,820 - 5,093,283 - 7,266,561 88,754,410 - 1,161,337	- <del>V</del> 91 	Doubtful  ₩	Classification  Substandard  W - 61,596,439 6,578,990 - 68,175,429	Pre-cautionary  ₩ 76,330,510 76,330,510 3,253,946	₩ 1,424,923 432,200,000 438,243,474 3,078,501 3,224,388,366 178,300,000 24,924,809 50,425,997 44,693 4,353,030,763 55,000,000 470,421,356 144,879,003	₩ 1,424,923 432,200,000 438,243,474 3,148,247 3,446,919,426 178,300,000 36,597,082 50,425,997 7,311,254 4,594,570,403 55,000,000 477,850,702 155,316,910	Call loans Repurchase agreements Broker's loan Loans to employees Loans Notes discounted Loans purchased Privately-placed bonds Advance for customers  CMA management assets: CMA Short-term note trading Lease assets: Financial lease receivables Other financial assets: Accounts receivable
Loans:         Amount         Normal         Pre-cautionary         Substandard         Doubtful         Estimated loss           Call loans         ₩ 1,424,923         ₩ 1,424,923         ₩ 1,424,923         ₩ - ₩ - ₩ - ₩ - ₩ - ₩ - ₩         - ₩ - ₩ - ₩ - ₩         - □           Repurchase agreements         432,200,000         432,200,000         - □	possible loan losses  W - 69,746 117,153,322 340,284 6,706,712 152,136 7,266,561 131,688,761 179,751	69,746 76,324,820 5,093,283 7,266,561 88,754,410 - 1,161,337 3,398,131	- <del>V</del> 91 	Doubtful  ₩	Classification  Substandard  W - 61,596,439 6,578,990 - 68,175,429	Pre-cautionary  ₩ 76,330,510 76,330,510 3,253,946	₩ 1,424,923 432,200,000 438,243,474 3,078,501 3,224,388,366 178,300,000 24,924,809 50,425,997 44,693 4,353,030,763 55,000,000 470,421,356 144,879,003 107,821,400 37,337,636	₩ 1,424,923 432,200,000 438,243,474 3,148,247 3,446,919,426 178,300,000 36,597,082 50,425,997 7,311,254 4,594,570,403 55,000,000 477,850,702 155,316,910 107,821,400 38,319,211	Call loans Repurchase agreements Broker's loan Loans to employees Loans Notes discounted Loans purchased Privately-placed bonds Advance for customers  CMA management assets: CMA Short-term note trading Lease assets: Financial lease receivables Other financial assets: Accounts receivable Receivable spot exchange Accrued income
Loans:         Amount         Normal         Pre-cautionary         Substandard         Doubtful         Estimated loss           Call loans Repurchase agreements         432,200,000         432,200,000         - W - W - W - W - W - W - W - W - W - W	possible loan losses  W - 69,746 117,153,322 340,284 6,706,712 152,136 7,266,561 131,688,761 179,751 6,315,833 3,715,097 981,575	69,746 76,324,820 - 5,093,283 - 7,266,561 88,754,410 - 1,161,337 3,398,131 - 981,575	- \forall \for	Doubtful  ₩	Classification  Substandard  W - 61,596,439 6,578,990 - 68,175,429	Pre-cautionary  ₩ 76,330,510 76,330,510 - 3,253,946 6,585,756	₩ 1,424,923 432,200,000 438,243,474 3,078,501 3,224,388,366 178,300,000 24,924,809 50,425,997 44,693 4,353,030,763 55,000,000 470,421,356 144,879,003 107,821,400 37,337,636 8,420,735	₩ 1,424,923 432,200,000 438,243,474 3,148,247 3,446,919,426 178,300,000 36,597,082 50,425,997 7,311,254 4,594,570,403 55,000,000 477,850,702 155,316,910 107,821,400 38,319,211 8,420,735	Call loans Repurchase agreements Broker's loan Loans to employees Loans Notes discounted Loans purchased Privately-placed bonds Advance for customers  CMA management assets: CMA Short-term note trading Lease assets: Financial lease receivables Other financial assets: Accounts receivable Receivable spot exchange Accrued income
Loans:         Amount         Normal         Pre-cautionary         Substandard         Doubtful         Estimated loss           Call loans         ₩ 1,424,923         ₩ 1,424,923         ₩ 1,424,923         ₩ - ₩ - ₩ - ₩ - ₩ - ₩ - ₩ - ₩ - №           Repurchase agreements         432,200,000         432,200,000	possible loan losses  W - 69,746 117,153,322 340,284 6,706,712 152,136 7,266,561 131,688,761 179,751 6,315,833 3,715,097	69,746 76,324,820 - 5,093,283 - 7,266,561 88,754,410 - 1,161,337 3,398,131 - 981,575	- \forall \for	Doubtful  ₩ -  8,279,291  -  8,279,291  -  8,279,291  -  454,020  -  454,020	Classification  Substandard  W - 61,596,439 6,578,990 - 68,175,429	Pre-cautionary  ₩ 76,330,510 76,330,510 - 3,253,946 6,585,756	₩ 1,424,923 432,200,000 438,243,474 3,078,501 3,224,388,366 178,300,000 24,924,809 50,425,997 44,693 4,353,030,763 55,000,000 470,421,356 144,879,003 107,821,400 37,337,636 8,420,735 298,458,774	₩ 1,424,923 432,200,000 438,243,474 3,148,247 3,446,919,426 178,300,000 36,597,082 50,425,997 7,311,254 4,594,570,403 55,000,000 477,850,702 155,316,910 107,821,400 38,319,211 8,420,735	Call loans Repurchase agreements Broker's loan Loans to employees Loans Notes discounted Loans purchased Privately-placed bonds Advance for customers  CMA management assets: CMA Short-term note trading Lease assets: Financial lease receivables Other financial assets: Accounts receivable Receivable spot exchange Accrued income

Details on the classification of due from banks and debt securities on credit soundness as of December 31, 2016 and 2015 consist of the following (Korean won in thousands):

		December 31, 2016		December 31, 2015						
		Financial assets designated at fair			A '111 (					
	Financial assets	value through profit	Available-for-sale	Financial assets	value through profit	Available-for-sale				
Bonds:	held-for-trading (*)	or loss (*)	financial assets (*)	held-for-trading (*)	or loss (*)	financial assets (*)				
Government, public and										
specific bonds	4,505,173,023	\ _	789,926,488	₩ 4,158,346,399	\ _	285,785,432				
AAA	1,726,957,148	=	10,053,273	1,541,074,181	-	-				
AA- to AA+	190,712,347	144,527,532	61,143,560	402,661,002	30,681,530	-				
A- to A+	49,381,525	· · · · -	22,354,810	5,781,926	· · · · -	7,208,903				
Less A-	144,355,050	=	40,640,176	106,570,288	=	39,174,879				
Unrated		<u> </u>	114,069,414			37,508,187				
	6,616,579,093	144,527,532	1,038,187,721	6,214,433,796	30,681,530	369,677,401				
CP:										
A1	226,648,278	-	-	178,182,131	-	-				
A2 to A3	92,785,001	-	185,126,297	213,146,335	-	20,014,696				
Less B	-	=	456,983	-	=	682,726				
	319,433,279		185,583,280	391,328,466		20,697,422				
	6,936,012,372	144,527,532	1,223,771,001	6,605,762,262	30,681,530	390,374,823				

<sup>(\*)</sup> The Group surveyed the credit soundness on debt securities in financial assets. In case of other financial assets, credit risk is not taken into consideration or rating of credit soundness cannot be calculated due to their nature of business.

Details of industrial credit exposure classified by Korean Standard Industrial Classification as of December 31, 2016 and 2015 consist of the following (Korean won in thousands):

						Decembe	er 31	, 2016							
		Finance and			WI	nolesale and				0.1					
		insurance	N	lanufacturing		retailing		Construction	_	Others		Total			
Cash and due from banks Financial assets held-for-	₩	816,956,144	₩	-	₩	-	₩	-	₩	-	₩	816,956,144			
trading (*) Derivative instrument		2,103,324,451		882,926		-		1,300,944		4,830,504,051		6,936,012,372			
assets (*) Financial assets designated at fair value		128,206,238		-		-		-		-		128,206,238			
through profit or loss (*) Available-for-sale financial		4,517,369		10,005,250		-		-		134,522,283		149,044,902			
assets (*)		365,830,484		31,165,474		-		8,679,569		818,095,474		1,223,771,001			
Loans		1,356,461,628		74,004,977		44,682,848		819,594,164		3,266,032,241		5,560,775,858			
CMA		25,000,000		-		-		-		3,100,000		28,100,000			
Lease assets		33,021,499		37,598,710		29,317,004		10,488,775		154,428,963		264,854,951			
Other financial assets		287,778,685		-		-		-		202,591,991		490,370,676			
	₩	5,121,096,498	₩	153,657,337	₩	73,999,852	₩	840,063,452	₩	9,409,275,003	₩	15,598,092,142			
		December 31, 2015													
		Finance and			Wholesale and			_							
		insurance	N	lanufacturing		retailing		Construction	_	Others		Total			
Cash and due from banks Financial assets held-for-	₩	646,068,280	₩	=	₩	-	₩	-	₩	-	₩	646,068,280			
trading (*)		2,005,508,994		1,423,633		-		-		4,598,829,635		6,605,762,262			
Derivative instrument assets (*) Financial assets		146,196,291		-		-		-		-		146,196,291			
designated at fair value through profit or loss (*) Available-for-sale financial		4,818,308		9,971,169		-		-		20,710,362		35,499,839			
assets (*)		62,956,682		-		-		579,143		326,838,998		390,374,823			
Loans		1,304,763,986		59,134,768		23,934,675		1,397,451,466		1,809,285,508		4,594,570,403			
CMA		25,000,000		15,000,000		-		-		15,000,000		55,000,000			
Lease assets		66,097,400		70,192,553		53,668,107		22,526,054		265,366,588		477,850,702			
Other financial assets		138,414,078				-			_	171,500,641		309,914,719			
	₩	4,399,824,019	₩	155,722,123	₩	77,602,782	₩	1,420,556,663	₩	7,207,531,732	₩	13,261,237,319			

<sup>(\*)</sup> The Group excluded financial assets below, since they had no significant credit risk.

- Ø Financial assets held-for-trading: Stocks and collective investment securities
- Ø Financial assets designated at fair value through profit and loss: Reserve for claims of customers' deposits (trust)
- Ø Financial assets available-for-sale: Stocks, collective investment securities, foreign currency securities and others
- Ø Derivative financial assets: Options purchased of stock

## Liquidity risk

## Procedures of the liquidity risk management

The Group defines liquidity risk as the possibility of incurring losses due to a temporary shortage in funds caused by a maturity mismatch or an unexpected capital outlay. Liquidity risk soars when funding rates rise, or assets are sold below a normal price, or a good investment opportunity is missed. The purpose to manage liquidity risk is to early identify the potential risk factors upon raising and operating the Group's funds and to obtain a stable revenue base maintaining an appropriate level of the Group's liquidity by systematically managing the risk.

The targets of liquidity risk management are all assets and liabilities outstanding in the Group's statements of financial position.

The Group's principles of the liquidity risk management are as follows:

- Ø Set up and comply with tolerable limits to liquidity risk.
- Ø Prepare insufficient liquidity by forecasting cash requirements regularly.
- Ø Establish an emergency plan against a liquidity crisis to prepare for an unexpected liquidity risk.
- Ø Evaluate and manage the effect of a large amount of money that is loaned out, invested, or procured on liquidity risks.

The residual maturity of non-derivative financial instruments as of December 31, 2016 and 2015 consists of the following (Korean won in thousands):

							Dec	ember 31, 2016						
		Nithin 1 week		After 1 week ~ t no later than 1 month		After 1 month~ t no later than 3 months	A	ter 3 months~ no later than 6 months		fter 6 months~ ut no later than 1 year		After 1 year		Total
Assets:	14/		14/		14/		147		14/		14/		14/	
Cash and due from banks	₩	757,204,065	₩	99,571	₩	56,089,000	₩	-	₩	848,271	₩	2,715,237	₩	816,956,144
Financial assets held-for- trading		4,776,828,867		455,582,323		57,353,520		99,800,030		162,171,821		1,384,275,811		6,936,012,372
Financial assets designated at fair value through profit or loss		49,089,827		-		-		-		-		99,955,075		149,044,902
Available-for-sale financial assets (*1) Loans (*2)		807,927,467 771,609,483		148,016,594 198,062,370		10,704,175 998,760,423		45,034,883 360,334,129		228,492 1,133,552,709		211,859,390 2,098,456,744		1,223,771,001 5,560,775,858
CMA Lease assets Other financial assets (*3)		1,778,759 407,423,776		3,100,000 11,401,574		15,000,000 26,271,131 47,294,677		36,628,264 861,376		10,000,000 64,936,053 3,441,778		123,839,170 31,349,069		28,100,000 264,854,951 490,370,676
Liabilities:	₩	7,571,862,244	_	816,262,432	_	1,211,472,926		542,658,682	_	1,375,179,124	_	3,952,450,496	_	15,469,885,904
Deposits (*3)	₩	459,256,882		35,073,968		192,208,353		215,651,604		1,184,136,365		1,023,701,940		3,110,029,112
Financial liabilities held-for- trading		155,860		383,731,816		215,425,088		17,816,884		1,106,709,388		144,778,725		1,868,617,761
Financial liabilities designated at fair value through profit or loss Borrowings Debentures		6,803,235 4,521,430,390		70,940,020 781,580,940		240,559,721 1,141,600,976 10,100,000		65,990,707 203,100,000		177,049,851 522,000,000 30,000,000		93,593,895 1,524,896,567 240,000,000		654,937,429 8,694,608,873 280,100,000
Other financial liabilities	₩	155,777,440		2,871,627	₩	32,999,026	₩	-	₩	188,701,412		82,512,133		462,861,638
		Vithin 1 week		After 1 week ~ t no later than 1 month		After 1 month~ t no later than 3 months	At	ember 31, 2015 fter 3 months~ no later than 6 months		fter 6 months~ ut no later than 1 year		After 1 year		Total
Assets:	₩	0.40.040.400	₩	4 000	₩		₩		₩		₩	0.000.050	₩	0.40.000.000
Cash and due from banks Financial assets held-for- trading	**	643,243,132 4,636,725,744	vv	1,890 440,510,942	**	17,634,897	**	145,447,286	**	205,889,956	**	2,823,258 1,159,553,437	**	646,068,280 6,605,762,262
Financial assets designated at fair value through profit or loss		30,681,530		779,922		410,764		-		227,091		3,400,532		35,499,839
Available-for-sale financial assets (*1) Loans (*2)		302,189,705 487,348,808		188,116,684		579,143 598,839,940		547,319,354		29,150,920 1,090,606,717		58,455,055 1,682,338,900		390,374,823 4,594,570,403
CMA Lease assets Other financial assets (*3)		2,879,676 216,075,493		10,000,000 15,506,533		15,000,000 35,778,007 87,786,582		20,000,000 51,390,010 -		10,000,000 90,677,203		281,619,273 6,016,181		55,000,000 477,850,702 309,878,256
Liabilities:	₩	6,319,144,088	₩	654,915,971	₩	756,029,333	₩	764,156,650	₩	1,426,551,887	₩	3,194,206,636	₩	13,115,004,565
Deposits (*3)	₩	501,278,477	₩	45,993,509	₩	217,371,342	₩	288,360,754	₩	2,318,170,258	₩	107,385,614	₩	3,478,559,954
Financial liabilities held-for- trading		99,418		10,447,708		2,293,228		8,745,651		521,746,390		28,366,716		571,699,111
Financial liabilities designat ed at fair value through pro fit or loss		2,009,175		89,470,150		79,721,930 390,819,318		151,609,672		33,417,975 437,500,000		135,188,932 1,127,092,420		491,417,834 7,085,058,245
Borrowings		4,024,930,390		941,916,117		390,019,310		162,800,000		437,300,000				
Borrowings Debentures Other financial liabilities		4,024,930,390 - 195,276,694		941,916,117		232,055,491		162,800,000				280,100,000 29,688,817		280,100,000 457,021,002

- (\*1) Non-marketable equity securities, collective investment securities, foreign currency securities and others are excluded from available-for-sale financial assets.
- (\*2) Deferred loan fees and present value discount are excluded from loans.
- (\*3) Present value discount of other assets and due from banks are excluded.
- (\*4) Commitments mentioned in Note 39-3 are the probable maximum exposure which the Group might liquidate according to the contracts in the future. The Group expects that actual payment will be less than maximum exposure according to its past transaction experience and the characteristics of the commitments. It is difficult for the Group to expect actual timing, amount and probability of settlement of the commitments.

The marketable non-derivative financial instruments are classified as within one week's maturity and non-marketable non-derivative financial instruments are classified as contractual maturity.

The residual maturity of derivative financial instruments as of December 31, 2016 and 2015 consists of the following (Korean won in thousands):

						[	Dece	mber 31, 2016	6					
	Wi	thin 1 week		ter 1 week~ no later than 1 month	t	ter 1 month~ but no later than 3 months	but	er 3 months~ no later than 6 months		er 6 months~ out no later than 1 year	ŀ	After 1 year		Total
Exchange-traded derivatives Over-the-counter derivatives: Interests Currency Stock Credit	₩	75,182 (204,630) (782,226)	₩	56,249 (244,266) (1,549,984)	₩	332,768 (539,343) (3,127,767) - 85,593	₩	(811,677) (260,410) 1,367,413	₩	(75,821) 1,450,121 23,406,632 (7,599,197) 301,126	₩	7,756,426 16,072,582 168,925 20,400,139	₩	7,333,127 16,274,054 19,482,993 12,800,942 386,719
Others	₩	(986,856)	₩	(1,794,250)	₩	91,013	₩	(462,741) 644,262	₩	854,732 18,413,414	₩	(130,361) 36,511,285	₩	352,643 49,297,351
	₩	(911,674)	₩	(1,738,001)	₩	(3,157,736)	₩	(167,415)	₩	18,337,593	₩	44,267,711	₩	56,630,478
						ſ	Dece	mber 31, 201	5					
	Wi	thin 1 week		ter 1 week~ no later than 1 month	t	ter 1 month~ but no later than 3 months	Afte but	mber 31, 2015 er 3 months~ no later than 6 months	Aft	er 6 months~ out no later than 1 year		After 1 year		Total
Exchange-traded derivatives	Wi	thin 1 week 12,296		no later than	t	ter 1 month~ out no later than	Afte but	er 3 months~ no later than	Aft	out no later than	₩	After 1 year 4,109,558	₩	Total 5,093,119
	₩		but	no later than 1 month		ter 1 month~ out no later than 3 months	Afte	er 3 months~ no later than 6 months	Aft	out no later than 1 year			₩	
derivatives Over-the-counter derivatives: Interests Currency Stock Credit	₩	12,296 273,257 (1,075,600)	but	no later than 1 month 2,153,718 (369,982) (1,907,913)		ter 1 month~ but no later than 3 months (223,642) 30,300 (5,687,089)	Afte	er 3 months~ no later than 6 months (737,141) (1,026,841) 4,366,823 965,522	Aft	out no later than 1 year (221,670) 1,247,509 13,050 (2,108,024)		4,109,558 (1,357,326) 22,237,843 3,406,618 1,071,624	₩	5,093,119 (1,203,083) 17,947,114 2,264,116 1,071,624

## Market risk

Market risk is the risk that the fair value or future cash flows of financial instruments will fluctuate due to the changes in market variables such as interest rates, equity prices, and exchange ratios in the market and so on.

The purposes of market risk management are to control the tolerable loss-limit of assets and liabilities arising from the changes in market variables such as interest rates, foreign exchanges and equity prices. The scope of market risk management is marketable securities which are traded for operating the Group's properties, net foreign exchange positions, derivatives, other assets and liabilities embedded with market risks and off-balances. Significant market risks are interest rate risk, foreign exchange risk and equity price risk as of the reporting date.

The Group manages and controls the market risk arising from the changes of market variables within adequate level by measuring and monitoring the risk exposures on a regular basis.

## **Trading positions**

The trading positions include positions of interest rate, equity price, commodity and foreign exchange held for trading purpose:

- (i) Financial instruments for the purpose of acquiring the differences incurred due to held-for-trading or price fluctuations
- (ii) Financial instruments for the purpose of hedging risks
- (iii) Financial instruments for the purpose of acquiring arbitrages
- (iv) Financial instruments for the purpose of acquisition, brokerage, and market-making

The Group's principles to manage the market risk of its trading positions are to measure its market risk status on a regular basis and to establish and comply with the various market risk limits. The Group analyzes whether the return against risk is appropriate by reviewing its profit and risk on a regular basis.

### Value at risk (VaR)

Value at Risk ("VaR") is a primary method that manages and measures the degree of market risks of the trading portfolio subject to exposure, which estimates the potential loss of the trading portfolio that is not expected to be exceeded if the current market risk positions were to be held unchanged for one day. The Group calculates VaR for a standard 10 days in the 99% confidence level. In addition, to account for the method's limited use, a stress test is performed in order to measure the extent of the loss in extreme cases.

The types of Market VaR as of December 31, 2016 and 2015 consist of the following (Korean won in thousands):

	De	cember 31, 2016		Average		Max		Min	December 31 2015		
Interest rates risk	₩	5,416,615	₩	5,499,350		6,951,226	;	3,577,558	₩	3,190,860	
Stock price risk Foreign exchange		7,653,772		10,471,240	1	3,491,780	-	7,653,772		5,355,450	
rates risk		1,500,180		3,088,696		7,135,087		379,448		3,519,675	
Total risk	₩	14,570,567							₩	12,065,985	

#### Operational risk

Operational risk is the risk of loss arising from systems failure, human error, fraud or external events. Risks related to strategy or damaging reputation are excluded but legal or regulatory implications are identified as operational risks. Operational risk includes non-financial risks related to losses due to internal operational problems and due to externalities such as natural disasters and terrorist attacks. Operational risk does not have a direct correlation with income and the Group needs to mitigate such risk through internal controls and insurance. The Group measures the operational risk exposures using the approaches suitable to the Financial Investment Industry Regulations.

### **Capital Management**

The Group evaluates the internal capital adequacy by calculating net capital ratio ("NCR") in accordance with the Regulation on Financial Investment Services and detailed enforcement regulations in order to have adequate capital and comply with supervisory regulation.

NCR as of December 31, 2016 and 2015 consist of the following (Korean won in millions):

	December 31, 2016					
I. Net capital for business	₩	1,252,346	₩	1,260,451		
Net asset amount in consolidated financial statements		1,878,310		1,730,623		
Deduction		(751,454)		(653,982)		
Add		125,490		183,810		
II. Total risk amount		323,231		215,271		
Market risk amount		198,691		130,656		
Credit risk amount		44,871		24,926		
Operating risk amount		79,669		59,689		
III. Surplus capital(I - II)		929,115		1,045,180		
IV. Regulatory capital required (*2)		134,610		134,610		
V. NCR(III/IV)		690.23%		776.45%		

(\*1) As of December 31, 2016, the new regulation was enacted to calculate net capital ratio of the consolidated financial statements. The net capital ratio as of December 31, 2015, presented for a comparative purpose was recalculated based on the operating net capital ratios (I/II\*100) disclosed in the separate financial statements as of December 31, 2015.

(\*2) Own capital required is calculated as 70% of legal capital (₩192.3 billion).

# 48. Comprehensive share exchange

By the resolution of the Board of Directors on November 16, 2016, the Company entered into a comprehensive share exchange agreement with Meritz Capital Co., Ltd., where the Company gains 100% ownership in Meritz Capital Co., Ltd. The objective of the comprehensive share exchange is to promote efficiency and unity of management thereby create synergy effect. This may also enhance corporate value achievement as well as continuous growth. The resolution on the comprehensive share exchange from the shareholders' meeting is scheduled on March 24, 2017.

The comprehensive share exchange is a business combination under common control where Meritz Capital Co., Ltd., the subsidiary of Meritz Financial Group Inc., the controlling company, becomes a wholly-owned subsidiary of the Company. Accordingly, the Company plans to account for the comprehensive share exchange by using book values of assets and liabilities of Meritz Capital Co., Ltd. in the consolidated financial statements of Meritz Financial Group Inc. The Company also plans to adjust the difference in the book values of assets and liabilities and issued share consideration in other components of capital.

# 49. Approval of the financial statements

The 2016 consolidated financial statements were approved by the Board of Directors on February 8, 2017.