

Samsung Electronics Co., Ltd. and its Subsidiaries

NOTES TO INTERIM CONSOLIDATED FINANCIAL STATEMENTS

1. General Information

1.1 Company Overview

Samsung Electronics Co., Ltd. (the “Company”) was incorporated under the laws of the Republic of Korea in 1969 and listed its shares on the Korea Stock Exchange in 1975.

The Company and its subsidiaries (collectively referred to as the “Group”) operate three business divisions: Consumer Electronics (“CE”), Information technology & Mobile communications (“IM”), and Device Solutions (“DS”). The CE division includes digital TVs, monitors, printers, air conditioners and refrigerators and the IM division includes mobile phones, communication systems, and computers. The DS division includes products such as memory and system LSI in the semiconductor business (“Semiconductor”), and LCD and OLED panels in the display business (“DP”). The Company is domiciled in the Republic of Korea and the address of its registered office is Suwon, the Republic of Korea.

These interim consolidated financial statements have been prepared in accordance with Korean International Financial Reporting Standards (“K-IFRS”) 1110, *Consolidated Financial Statements*. The Company, as the controlling company, consolidates its 160 subsidiaries including Samsung Display and Samsung Electronics America. The Group also applies the equity method of accounting for its 32 affiliates, including Samsung Electro-Mechanics.

1.2 Consolidated Subsidiaries

(A) The consolidated subsidiaries as of June 30, 2016 are as follows:

Area	Subsidiaries	Industry	Percentage of ownership ¹
	Samsung Display (SDC)	Manufacture and sale of display panels	84.8
	SU Materials	Manufacture of LCD components	50.0
	STECO	Manufacture of semiconductor components	70.0
	SEMES	Manufacture of semiconductor/FPD	91.5
	Samsung Electronics Service	Repair services for electronic devices	99.3
	Samsung Electronics Sales	Sale of electronic devices	100.0
	Samsung Electronics Logitech	General logistics agency	100.0
	Samsung Medison	Medical equipment	68.5
Domestic	Samsung Venture Capital Union #14	Technology business, Venture capital investments	99.0
	Samsung Venture Capital Union #20	Technology business, Venture capital investments	99.0
	Samsung Venture Capital Union #21	Technology business, Venture capital investments	99.0
	Samsung Venture Capital Union #22	Technology business, Venture capital investments	99.0
	Samsung Venture Capital Union #23	Technology business, Venture capital investments	99.0
	Samsung Venture Capital Union #26	Technology business, Venture capital investments	99.0
	Samsung Venture Capital Union #27	Technology business, Venture capital investments	99.0
	Samsung Venture Capital Union #28	Technology business, Venture capital investments	99.0
	Samsung Venture Capital Union #29	Technology business, Venture capital investments	99.0

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Area	Subsidiaries	Industry	Percentage of ownership ¹
America	Samsung Electronics America (SEA)	Sale of electronic devices	100.0
	NexusDX (Nexus)	Medical equipment	100.0
	Samsung Receivables (SRC)	Credit management	100.0
	NeuroLogica	Medical equipment	100.0
	Samsung Semiconductor (SSI)	Sale of semiconductor/LCD	100.0
	Samsung Electronics Canada (SECA)	Sale of electronic devices	100.0
	Samsung Research America (SRA)	R&D	100.0
	Samsung Mexicana (SAMEX)	Manufacture of electronic devices	100.0
	Samsung International (SII)	Manufacture of TV/monitors	100.0
	Samsung Austin Semiconductor (SAS)	Manufacture of semiconductor	100.0
	Samsung Electronics Mexico (SEM)	Sale of electronic devices	99.9
	SEMES America (SEMESA)	Semiconductor equipment	100.0
	Samsung Electronics Digital Appliance Mexico (SEDAM)	Manufacture of electronic devices	99.9
	Samsung Electronics Latinoamerica Miami (SEMI)	Sale of electronic devices	100.0
	Samsung Electronics Latinoamerica (SELA)	Sale of electronic devices	100.0
	Samsung Electronics Venezuela (SEVEN)	Marketing and services	100.0
	Samsung Electronica Colombia (SAMCOL)	Sale of electronic devices	100.0
	Samsung Electronics Panama (SEPA)	Consulting	100.0
	Samsung Electronica da Amazonia (SEDA)	Manufacture and sale of electronic devices	100.0
	Samsung Electronics Argentina (SEASA)	Marketing and services	100.0
	Samsung Electronics Chile (SECH)	Sale of electronic devices	100.0
	Samsung Electronics Peru (SEPR)	Sale of electronic devices	100.0
	RT SV CO-INVEST (RT-SV)	Venture capital investments	99.9
	Quietside	Sale of heating and cooling products	100.0
	SmartThings	Sale of smart home electronics	100.0
	PrinterOn	Sale of printing solutions	100.0
	PrinterOn America	Sale of printing solutions	100.0
	Simpress	Sale of printing solutions	100.0
	Samsung Pay	Develop and provide mobile payment service	100.0
	Prismview(formerly YESCO Electronics)	Manufacture and sale of LED displays	100.0
	Beijing Integrated Circuit Industry International Fund (Beijing Fund)	Venture capital investments	75.8
	Stellus Technologies	Manufacture and sale of server semiconductor system	100.0
	Samsung Oak Holdings (SHI)	Holding company	100.0
AdGear Technologies	Digital advertising platforms	100.0	
Joyent	Cloud Services	100.0	
Joyent (Canada)	Cloud Services	100.0	
Europe/CIS	Samsung Electronics (UK) (SEUK)	Sale of electronic devices	100.0
	Samsung Electronics Holding (SEHG)	Holding company	100.0
	Samsung Semiconductor Europe GmbH (SSEG)	Sale of semiconductor/LCD	100.0
	Samsung Electronics GmbH (SEG)	Sale of electronic devices	100.0
	Samsung Electronics Iberia (SESA)	Sale of electronic devices	100.0
	Samsung Electronics France (SEF)	Sale of electronic devices	100.0
	Samsung Electronics Hungarian (SEH)	Manufacture and sale of electronic devices	100.0
	Samsung Electronics Czech and Slovak (SE CZ)	Sale of electronic devices	100.0
	Samsung Electronics Italia (SEI)	Sale of electronic devices	100.0
	Samsung Electronics Europe Logistics (SELS)	Logistics	100.0
	Samsung Electronics Benelux (SEBN)	Sale of electronic devices	100.0
	Samsung Display Slovakia (SDSK)	Toll processing of LCD	100.0
	Samsung Electronics Romania (SEROM)	Sale of electronic devices	100.0

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Area	Subsidiaries	Industry	Percentage of ownership ¹
	Samsung Electronics Overseas (SEO)	Sale of electronic devices	100.0
	Samsung Electronics Polska (SEPOL)	Sale of electronic devices	100.0
	Samsung Electronics Portuguesa (SEP)	Sale of electronic devices	100.0
	Samsung Electronics Nordic (SENA)	Sale of electronic devices	100.0
	Samsung Semiconductor Europe (SSEL)	Sale of semiconductor/LCD	100.0
	Samsung Electronics Austria (SEAG)	Sale of electronic devices	100.0
	Samsung Electronics Slovakia (SESK)	Manufacture of TV/monitors	100.0
	Samsung Electronics Europe Holding (SEEH)	Holding company	100.0
	Samsung Electronics Poland Manufacturing (SEPM)	Manufacture of home appliances	100.0
	Samsung Electronics Greece (SEGR)	Sale of electronic devices	100.0
	Samsung Nanoradio Design Center (SNDC)	R&D	100.0
	Samsung Electronics Rus (SER)	Marketing	100.0
	Samsung Electronics Rus Company (SERC)	Sale of electronic devices	100.0
	Samsung Electronics Ukraine (SEU)	Marketing	100.0
Europe/CIS (Cont.)	Samsung Electronics Baltics (SEB)	Sale of electronic devices	100.0
	Samsung Electronics Ukraine Company (SEUC)	Sale of electronic devices	100.0
	Samsung R&D Institute Rus (SRR)	R&D	100.0
	Samsung Electronics Kazakhstan (SEK)	Marketing	100.0
	Samsung Electronics Central Eurasia (SECE)	Sale of electronic devices	100.0
	Samsung Electronics Rus Kaluga (SERK)	Manufacture of TV	100.0
	Samsung Electronics (London) Limited (SEL)	Holding company	100.0
	Samsung Denmark Research Center (SDRC)	R&D	100.0
	Samsung France Research Center (SFRC)	R&D	100.0
	Samsung Cambridge Solution Centre (SCSC)	R&D	100.0
	Samsung Electronics Switzerland GmbH (SESG)	Sale of electronic devices	100.0
	PrinterOn Europe	Sale of printing solutions	100.0
	Samsung Electronics Caucasus (SECC)	Marketing	100.0
	Joyent (UK)	Cloud services	100.0
	Samsung Electronics West Africa (SEWA)	Marketing	100.0
	Samsung Electronics East Africa (SEEA)	Marketing	100.0
	Samsung Gulf Electronics (SGE)	Sale of electronic devices	100.0
	Samsung Electronics Egypt (SEEG)	Manufacture and sale of electronic devices	100.0
	Samsung Electronics Israel (SEIL)	Marketing	100.0
	Samsung Electronics Tunisia (SETN)	Marketing	100.0
	Samsung Electronics Pakistan (SEPAK)	Marketing	100.0
Middle East and Africa	Samsung Electronics South Africa (SSA)	Sale of electronic devices	100.0
	Samsung Electronics Turkey (SETK)	Sale of electronic devices	100.0
	Samsung Semiconductor Israel R&D Center (SIRC)	R&D	100.0
	Samsung Electronics Levant (SELV)	Sale of electronic devices	100.0
	Samsung Electronics Maghreb Arab (SEMAG)	Sale of electronic devices	100.0
	Samsung Electronics South Africa Production (SSAP)	Manufacture of TV/monitors	100.0

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Area	Subsidiaries	Industry	Percentage of ownership ¹
Asia (Except China)	Samsung Japan (SJC)	Sale of electronic devices	100.0
	Samsung R&D Institute Japan (SRJ)	R&D	100.0
	Samsung Electronics Japan (SEJ)	Sale of electronic devices	100.0
	Samsung Electronics Display (M) (SDMA)	Manufacture and sale of electronic devices	100.0
	Samsung Electronics (M) (SEMA)	Manufacture of home appliances	100.0
	Samsung Vina Electronics (SAVINA)	Manufacture and sale of electronic devices	100.0
	Samsung Asia Private (SAPL)	Sale of electronic devices	100.0
	Samsung India Electronics (SIEL)	Manufacture and sale of electronic devices	100.0
	Samsung R&D Institute India-Bangalore (SRI-B)	R&D	100.0
	Samsung Electronics Australia (SEAU)	Sale of electronic devices	100.0
	Samsung Electronics Indonesia (SEIN)	Manufacture and sale of electronic devices	100.0
	Samsung Telecommunications Indonesia (STIN)	Sale and services of communication systems	100.0
	Thai Samsung Electronics (TSE)	Manufacture and sale of electronic devices	91.8
	Samsung Electronics Philippines (SEPCO)	Sale of electronic devices	100.0
	Samsung Malaysia Electronics (SME)	Sale of electronic devices	100.0
	Samsung R&D Institute Bangladesh (SRBD)	R&D	100.0
	Samsung Electronics Vietnam (SEV)	Manufacture of electronic devices	100.0
	Samsung Electronics Vietnam THAINGUYEN (SEVT)	Manufacture of communication equipment	100.0
	Samsung Medison India (SMIN)	Medical equipment	100.0
	Samsung Electronics New Zealand (SENZ)	Sale of electronic devices	100.0
Samsung Display Vietnam (SDV)	Manufacture of LCD	100.0	
Samsung Electronics HCMC CE Complex (SEHC)	Manufacture and sale of electronic devices	100.0	
China	Samsung Display Dongguan (SDD)	Manufacture of LCD	100.0
	Samsung Display Tianjin (SDT)	Manufacture of LCD	95.0
	Samsung Electronics Hong Kong (SEHK)	Sale of electronic devices	100.0
	Suzhou Samsung Electronics (SSEC)	Manufacture of home appliances	88.3
	Samsung Suzhou Electronics Export (SSEC-E)	Manufacture of home appliances	100.0
	Samsung (China) Investment (SCIC)	Sale of electronic devices	100.0
	Samsung Mobile R&D Center China-Guangzhou (SRC-Guangzhou)	R&D	100.0
	Samsung Tianjin Mobile Development Center (STMC)	R&D	100.0
	Samsung R&D Institute China-Shenzhen(SRC-Shenzhen)	R&D	100.0
	Samsung Electronics Suzhou Semiconductor (SESS)	Toll processing of semiconductor	100.0
	Samsung Electronics (Shandong) Digital Printing (SSDP)	Manufacture of printers	100.0
	Samsung Electronics Huizhou (SEHZ)	Manufacture of electronic devices	99.9
	Tianjin Samsung Electronics (TSEC)	Manufacture of TV/monitors	91.2
	Samsung Electronics Taiwan (SET)	Sale of electronic devices	100.0
	Beijing Samsung Telecom R&D Center (BST)	R&D	100.0
	Tianjin Samsung Telecom Technology (TSTC)	Manufacture of communication equipment	90.0
	Shanghai Samsung Semiconductor (SSS)	Sale of semiconductor/LCD	100.0
	Samsung Electronics Suzhou Computer (SESC)	Manufacture of electronic devices	100.0

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Area	Subsidiaries	Industry	Percentage of ownership ¹
	Samsung Suzhou Module (SSM)	Toll processing of LCD	100.0
	Samsung Suzhou LCD (SSL)	Manufacture of LCD	60.0
	Shenzhen Samsung Electronics Telecommunication (SSET)	Manufacture of communication equipment	95.0
	Samsung Electronics Shanghai Telecommunication (SSTC)	Sale of mobile communication and network equipment	100.0
	Samsung Semiconductor (China) R&D (SSCR)	R&D	100.0
	Samsung Electronics China R&D Center (SCRC)	R&D	100.0
China (Cont.)	Samsung (China) Semiconductor (SCS)	Manufacture of semiconductor	100.0
	Samsung Electronics (Beijing) Service (SBSC)	Services	100.0
	Tianjin Samsung LED (TSLED)	Manufacture of LED	100.0
	Tianjin Samsung Opto-Electronics (TSOE)	Manufacture of cameras/camcorders	90.0
	Samsung R&D Institute China-Xian (SRC-Xian)	R&D	100.0
	SEMES (Xian)	Semiconductor equipment	100.0
	Samsung Semiconductor Xian (SSCX)	Sale of semiconductor/LCD	100.0

¹ Ownership represents the Group's ownership of voting rights in each entity.

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(B) A summary of financial data of major consolidated subsidiaries is as follows:

(1) 2016

<i>(In millions of Korean won)</i>	As of June 30, 2016		For the three months ended June 30, 2016		For the six months ended June 30, 2016	
	Assets	Liabilities	Sales	Net Income (Loss)	Sales	Net Income (Loss)
Samsung Display (SDC)	39,833,054	6,917,285	5,807,777	153,288	11,420,937	572
Samsung Electronics America (SEA)	16,338,710	8,678,932	9,099,726	190,936	17,670,847	27,392
Samsung (China) Investment (SCIC)	13,721,514	11,965,040	2,522,321	(15,394)	5,301,429	88,538
Samsung (China) Semiconductor (SCS)	10,335,995	5,595,849	1,054,482	369,578	2,103,893	644,479
Samsung Electronics Vietnam (SEV)	8,961,187	1,481,275	5,482,505	771,399	10,662,841	1,385,902
Samsung Electronics Europe Holding (SEEH)	7,660,975	5,784,210	-	16,453	-	22,191
Samsung Semiconductor (SSI)	7,466,683	3,575,594	4,849,323	2,601	9,021,494	11,168
Samsung Electronics Vietnam THAINGUYEN (SEVT)	6,813,846	2,816,427	5,522,072	759,242	11,004,894	1,399,117
Samsung Electronics Huizhou (SEHZ)	6,235,917	1,422,761	3,205,157	226,278	7,033,925	467,933
Samsung Austin Semiconductor (SAS)	5,043,831	1,572,862	966,551	31,251	2,086,872	60,702
Samsung Asia Private (SAPL)	4,737,935	520,458	395,296	509,944	752,657	510,320
Samsung India Electronics (SIEL)	4,436,580	2,508,808	2,139,741	201,769	4,466,484	449,395
Samsung Electronica da Amazonia (SEDA)	4,326,713	1,390,554	1,507,404	192,378	2,879,384	352,458
Shanghai Samsung Semiconductor (SSS)	4,047,291	3,402,293	4,647,341	35,762	8,939,123	75,420
Samsung Suzhou LCD (SSL)	2,684,100	1,642,398	323,993	(35,919)	540,713	(86,577)
Samsung Electronics Slovakia (SESK)	2,039,830	452,774	834,121	23,903	1,655,983	56,134
Thai Samsung Electronics (TSE)	2,035,438	435,774	1,083,132	48,735	2,194,690	108,880
Samsung Electronics Europe Logistics (SELS)	1,859,489	1,226,223	3,294,910	259,322	6,632,626	541,650
Tianjin Samsung Telecom Technology (TSTC)	1,816,982	426,884	1,075,376	65,095	2,245,749	124,527
Samsung Electronics GmbH (SEG)	1,662,884	1,587,609	1,596,360	(8,624)	3,260,378	17,447
Samsung Display Vietnam (SDV)	1,637,277	1,835,518	1,267,303	(44,584)	2,224,732	(33,562)
Samsung Electronics HCMC CE Complex (SEHC)	1,399,897	1,252,067	484,607	38,951	598,776	38,787
Samsung Electronics Hungarian (SEH)	1,371,449	271,253	558,887	38,000	1,192,919	77,297
Samsung Display Dongguan (SDD)	1,360,109	411,835	1,284,168	53,275	2,561,987	78,156
Samsung Electronics Taiwan (SET)	1,311,139	973,834	781,966	(13,582)	1,648,452	(1,720)

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(2) 2015

<i>(In millions of Korean won)</i>	As of December 31, 2015		For the three months ended June 30, 2015		For the six months ended June 30, 2015	
	Assets	Liabilities	Sales	Net Income (Loss)	Sales	Net Income (Loss)
Samsung Display (SDC)	39,225,460	6,586,259	6,282,176	531,735	12,936,860	939,983
Samsung Electronics America (SEA)	14,875,687	7,562,099	9,044,366	123,775	16,635,124	158,358
Samsung (China) Investment (SCIC)	12,748,395	11,040,055	2,751,675	(184,051)	5,890,041	(52,376)
Samsung (China) Semiconductor (SCS)	9,742,388	5,537,446	367,796	(36,719)	903,318	8,224
Samsung Semiconductor (SSI)	8,288,391	4,379,980	4,308,575	5,000	8,959,759	20,705
Samsung Electronics Vietnam (SEV)	7,829,507	1,155,075	4,786,128	525,867	8,991,729	938,818
Samsung Electronics Europe Holding (SEEH)	6,989,207	5,223,523	-	8,714	-	10,852
Samsung Electronics Vietnam THAINGUYEN (SEVT)	6,571,798	3,940,926	4,846,651	552,632	9,189,993	834,530
Samsung Electronics Huizhou (SEHZ)	6,192,974	1,738,095	4,583,299	276,055	8,994,184	463,249
Samsung Austin Semiconductor (SAS)	6,179,289	2,746,852	691,703	15,906	1,284,972	37,524
Samsung Asia Private (SAPL)	4,227,798	504,256	359,567	(5,120)	751,351	8,373
Shanghai Samsung Semiconductor (SSS)	3,792,437	3,207,942	3,537,494	31,582	6,126,219	62,251
Samsung India Electronics (SIEL)	3,723,127	2,204,333	1,781,921	82,859	3,729,674	123,921
Samsung Electronica da Amazonia (SEDA)	3,114,334	1,021,869	1,412,260	43,317	3,153,325	251,692
Samsung Suzhou LCD (SSL)	2,784,122	1,634,304	250,427	48,705	500,411	74,300
Tianjin Samsung Telecom Technology (TSTC)	2,075,123	778,133	1,487,231	91,665	3,548,192	189,205
Samsung Electronics Europe Logistics (SELS)	1,894,614	1,793,917	2,829,278	146,453	5,933,571	362,261
Thai Samsung Electronics (TSE)	1,889,410	416,382	1,013,512	52,418	2,050,150	123,930
Samsung Electronics Slovakia (SESK)	1,888,341	373,886	665,322	28,029	1,594,824	70,964
Samsung Electronics GmbH (SEG)	1,820,922	1,762,978	1,355,323	96,143	2,814,128	(53,217)
Samsung Display Dongguan (SDD)	1,276,263	384,963	928,524	(4,033)	2,086,793	15,761
Samsung Electronics Benelux (SEBN)	1,264,497	291,332	539,493	(1,253)	1,104,684	27,568
Samsung Electronics Hungarian (SEH)	1,254,673	231,785	641,403	27,300	1,328,725	41,668
Samsung Electronics Taiwan (SET)	1,253,480	918,482	1,115,761	(10,819)	2,373,948	(555)
Samsung Electronics (UK)(SEUK)	1,133,512	745,126	1,158,934	47,826	2,107,275	112,338

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(C) Changes in scope of consolidation

(1) Subsidiaries newly included in the consolidation for the six months ended June 30, 2016:

Area	Subsidiary	Description
America	Samsung Oak Holdings (SHI)	Incorporation
	AdGear Technologies	Acquisition of shares
	Joyent	Acquisition of shares
	Joyent (Canada)	Acquisition of shares
Europe/CIS	Joyent (UK)	Acquisition of shares
China	Samsung Semiconductor Xian (SSCX)	Incorporation

(2) Subsidiaries excluded from the consolidation for the six months ended June 30, 2016:

Area	Subsidiary	Description
America	Grandis	Liquidation
Europe/CIS	Samsung Russia Service Centre (SRSC)	Merger ¹
	SonoAce Deutschland (SMDE)	Liquidation
Asia (Except China)	Samsung Telecommunications Malaysia (STM)	Liquidation
	Future Technology & Service	Liquidation

¹ Samsung Electronics Rus Company (SERC), a subsidiary of the Group, merged with Samsung Russia Service Centre (SRSC) on February 1, 2016.

2. Summary of Significant Accounting Policies

2.1 Basis of Presentation

The interim consolidated financial statements for the six months ended June 30, 2016, have been prepared in accordance with K-IFRS 1034, *Interim Financial Reporting*. These interim consolidated financial statements have been prepared in accordance with the K-IFRS standards and interpretations effective at the reporting date.

(A) New and amended standards adopted by the Group

The Group applied the following amended and enacted standards for the annual period beginning on January 1, 2016:

Amendment to Korean IFRS 1001, Presentation of Financial Statements

The amendment to K-IFRS 1001, *Presentation of Financial Statements*, specifies that omission, addition and aggregation of presented items is allowed if the information is not material. Also, this standard clarifies share of the other comprehensive income of associates and joint ventures accounted for using the equity method to be presented as line items classified by whether it will be reclassified subsequently to profit or loss. Some of requirements were supplemented including the order in which an entity presents items. There is no material impact of the application of this amendment on the consolidated financial statements.

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(B) New and amended standards not adopted by the Group

New standards, amendments and interpretations issued but not effective for the financial year beginning January 1, 2016, and not early adopted by the Group, are as follows:

Korean IFRS 1109, Financial Instruments

The new standard issued in December 2015 regarding financial instruments replaces Korean IFRS 1039, Financial Instruments: Recognition and Measurement. Korean IFRS 1109, Financial Instruments, requires financial assets to be classified and measured on the basis of the holder's business model and the instrument's contractual cash flow characteristics. The Standard requires a financial instrument to be classified and measured at amortized cost, fair value through other comprehensive income, or fair value through profit or loss, and provides guidance on accounting for related gains and losses. The impairment model is changed into an expected credit loss model, and changes in expected credit losses are recognized in profit or loss. The new Standard is effective for the financial year beginning on or after January 1, 2018, but early adoption is allowed. Early adoption of only the requirements related to financial liabilities designated at fair value through profit or loss is also permitted. The Group is in the process of determining the effects resulting from the adoption of the new Standard.

Korean IFRS 1115, Revenue from Contracts with Customers

The new Standard for the recognition of revenue issued in December 2015 will replace Korean IFRS 1018, Revenue, Korean IFRS 1011, Construction Contracts, and related Interpretations. Korean IFRS 1115, Revenue from Contracts with Customers, will replace the risk-and-reward model under the current standards and is based on the principle that revenue is recognized when control of goods or services transfer to the customer by applying the five-step process. Key changes to current practices include guidance on separate recognition of distinct goods or services in any bundled arrangement, constraint on recognizing variable consideration, criteria on recognizing revenue over time, and increased disclosures. The new Standard is effective for annual reporting beginning on or after January 1, 2018, but early application is permitted. The Group is in the process of determining the effects resulting from the adoption of the new Standard.

2.2 Accounting Policies

Significant accounting policies and estimates adopted in the preparation of the interim consolidated financial statements are consistent with those adopted in the preparation of the annual consolidated financial statements for the year ended December 31, 2015, except changes in accounting policies applied in the financial year beginning on January 1, 2016 (Note 2.1) and as described below.

Income tax expense for the interim period is recognized based on management's best estimate of the weighted average annual effective income tax rate expected for the full financial year. The estimated average annual tax rate is applied to the pre-tax income.

2.3 Convenience Translation into United States Dollar Amounts

The Company operates primarily in Korean won and its official accounting records are maintained in Korean won. The US dollar amounts provided in the financial statements represent supplementary information solely for the convenience of the reader. All Korean won amounts are expressed in US dollars at the rate of ₩1,181.78 to US \$1, the average exchange rate for the six month period ended in June 30, 2016. Such presentation is not in accordance with generally accepted accounting principles, and should not be construed as a representation that the Korean won amounts shown could be readily converted, realized or settled in U.S. dollars at this or at any other rate.

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2.4 Critical Accounting Estimates and Assumptions

In preparing the interim consolidated financial statements, the management of the Group makes estimates and assumptions on matters which affect the application of policies and reported amounts of assets, liabilities, income and expenses. Estimates and assumptions are continually evaluated and are based on historical experience and other factors, including expectations of future events that are believed to be reasonable under the circumstances. The resulting accounting estimates, by definition, seldom equal the related actual results.

Critical accounting estimates and assumptions made in the preparation of the interim consolidated financial statements are consistent with those made in the preparation of the annual consolidated financial statements for the year ended December 31, 2015, except for the estimation methodologies applied in deriving corporate income tax.

3. Financial Instruments by Category

Categorizations of financial assets and liabilities as of June 30, 2016 and December 31, 2015, are as follows:

(1) As of June 30, 2016

<i>(In millions of Korean won)</i>	Assets at fair value through profit and loss		Loans and receivables		Available-for-sale financial assets		Total	
Assets								
Cash and cash equivalents	₩	-	₩	25,840,759	₩	-	₩	25,840,759
Short-term financial instruments		-		47,449,558		-		47,449,558
Short-term available-for-sale financial assets		-		-		3,781,006		3,781,006
Trade receivables		-		26,081,803		-		26,081,803
Long-term available-for-sale financial assets		-		-		8,398,201		8,398,201
Others		79,670		3,162,544		-		3,242,214
Total	₩	79,670	₩	102,534,664	₩	12,179,207	₩	114,793,541

<i>(In millions of Korean won)</i>	Liabilities at fair value through profit and loss		Financial liabilities measured at amortized cost		Other financial liabilities		Total	
Liabilities								
Trade payables	₩	-	₩	7,344,748	₩	-	₩	7,344,748
Short-term borrowings		-		1,987,496		8,272,262		10,259,758
Other payables		-		6,451,707		-		6,451,707
Current portion of long-term liabilities		-		1,389,682		-		1,389,682
Debentures		-		62,085		-		62,085
Long-term borrowings		-		533,222		-		533,222
Long-term other payables		323,381		2,581,135		-		2,904,516
Others		73,883		9,181,761		-		9,255,644
Total	₩	397,264	₩	29,531,836	₩	8,272,262	₩	38,201,362

Samsung Electronics Co., Ltd. and its Subsidiaries

NOTES TO INTERIM CONSOLIDATED FINANCIAL STATEMENTS

(2) As of December 31, 2015

<i>(In millions of Korean won)</i>	Assets at fair value through profit or loss		Loans and receivables		Available-for-sale financial assets		Total	
Assets								
Cash and cash equivalents	₩	-	₩	22,636,744	₩	-	₩	22,636,744
Short-term financial instruments		-		44,228,800		-		44,228,800
Short-term available-for-sale financial assets		-		-		4,627,530		4,627,530
Trade receivables		-		25,168,026		-		25,168,026
Long-term available-for-sale financial assets		-		-		8,332,480		8,332,480
Others		63,177		3,483,257		-		3,546,434
Total	₩	63,177	₩	95,516,827	₩	12,960,010	₩	108,540,014

<i>(In millions of Korean won)</i>	Liabilities at fair value through profit and loss		Financial liabilities measured at amortized cost		Other financial liabilities		Total	
Liabilities								
Trade payables	₩	-	₩	6,187,291	₩	-	₩	6,187,291
Short-term borrowings		-		2,416,977		8,738,448		11,155,425
Other payables		-		7,625,490		-		7,625,490
Current portion of long-term liabilities		-		221,548		-		221,548
Debentures		-		1,230,448		-		1,230,448
Long-term borrowings		-		266,542		-		266,542
Long-term other payables		312,738		2,406,936		-		2,719,674
Others		38,829		7,908,569		-		7,947,398
Total	₩	351,567	₩	28,263,801	₩	8,738,448	₩	37,353,816

4. Long-Term Available-for-Sale Financial Assets

(A) Details of long-term available-for-sale financial assets as of June 30, 2016 and December 31, 2015, are as follows:

<i>(In millions of Korean won)</i>	June 30, 2016		December 31, 2015	
Equity securities - Listed	₩	4,396,800	₩	4,674,753
Equity securities - Non-listed		3,879,842		3,498,655
Debt securities ¹		121,559		159,072
Total	₩	8,398,201	₩	8,332,480

¹ The maximum exposure to credit risk of available-for-sale debt securities is the carrying value at the reporting date.

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NOTES TO INTERIM CONSOLIDATED FINANCIAL STATEMENTS

(B) Details of listed equity securities as of June 30, 2016 and December 31, 2015, are as follows:

<i>(In millions of Korean won)</i>	June 30, 2016			December 31, 2015	
	Number of Shares Owned	Percentage of Ownership (%)	Acquisition Cost	Book Value (Market Value)	Book Value (Market Value)
Samsung SDI ¹	13,462,673	19.6	₩ 2,180,953	₩ 1,453,969	₩ 1,534,745
Samsung Heavy Industries	40,675,641	17.6	258,299	372,589	441,331
Hotel Shilla	2,004,717	5.1	13,957	136,120	154,965
Cheil Worldwide	14,498,725	12.6	223,941	245,028	300,124
iMarket Korea	647,320	1.8	324	7,509	16,377
SFA	1,822,000	10.2	38,262	90,645	90,098
Wonik Holdings (formerly Wonik IPS) ²	3,518,342	9.0	30,821	22,553	81,949
Wonik IPS ²	3,701,872	9.0	32,428	84,588	
ASML	12,595,575	2.9	726,024	1,442,310	1,331,450
Rambus	4,788,125	4.3	92,682	67,367	65,039
Seagate Technology	12,539,490	4.2	218,544	355,772	538,766
Sharp ¹	35,804,000	2.1	122,535	44,589	43,502
Wacom ¹	8,398,400	5.1	62,013	37,841	39,330
Others ¹			47,305	35,920	37,077
Total			₩ 4,048,088	₩ 4,396,800	₩ 4,674,753

¹ Impairment losses on listed equity securities resulting from the decline in realizable value below acquisition cost amounted to ₩732,542 million for the years ended December 31, 2015.

² During the six months ended June 30, 2016, Wonik IPS split off from Wonik Holdings (formerly Wonik IPS).

Acquisition cost includes impairment loss on available-for-sale financial assets recognized due to the decline in realizable value below acquisition cost. The difference between the acquisition cost, net of impairment loss and the current fair value is recorded within other components of equity, net of tax effects (unrealized gains or losses on available-for-sale financial assets).

5. Inventories

Inventories as of June 30, 2016 and December 31, 2015, are as follows:

<i>(In millions of Korean won)</i>	June 30, 2016			December 31, 2015		
	Gross Amount	Valuation Allowance	Book Value	Gross Amount	Valuation Allowance	Book Value
Finished goods	₩ 5,149,050	₩ (161,178)	₩ 4,987,872	₩ 5,956,413	₩ (186,953)	₩ 5,769,460
Work in process	6,710,071	(579,641)	6,130,430	6,142,964	(363,661)	5,779,303
Raw materials and supplies	5,861,378	(283,856)	5,577,522	6,082,185	(222,923)	5,859,262
Materials in transit	1,162,897	-	1,162,897	1,403,769	-	1,403,769
Total	₩18,883,396	₩(1,024,675)	₩17,858,721	₩19,585,331	₩(773,537)	₩18,811,794

Samsung Electronics Co., Ltd. and its Subsidiaries

NOTES TO INTERIM CONSOLIDATED FINANCIAL STATEMENTS

6. Investments in Associates and Joint Ventures

(A) Changes in investments in associates and joint ventures for the six months ended June 30, 2016 and 2015, are as follows:

<i>(In millions of Korean won)</i>	June 30, 2016	June 30, 2015
Balance as of January 1	₩ 5,276,348	₩ 5,232,461
Acquisition	24,104	68,348
Disposal ¹	(1,341,108)	(19,279)
Share of profit	13,423	90,178
Others ²	(30,242)	(68,665)
Balance as of June 30	₩ 3,942,525	₩ 5,303,043

¹ The Group sold its entire stake in Samsung Card during the six months ended June 30, 2016.

² Others consist of dividends, impairment and effects of changes in foreign exchange rates.

(B) Major investments in associates and joint ventures as of June 30, 2016, are as follows:

(1) Investments in associates

Investee	Nature of Relationship with Associate	Percentage of Ownership¹ (%)	Principal Business Location
Samsung Electro-Mechanics	Manufacture and supply electronic components including passive components, circuit boards, and modules	23.7	Korea
Samsung SDS	Provide IT services including computer programming, system integration and management	22.6	Korea
Samsung Biologics	New business investment	47.8	Korea

¹ Ownership represents the Group's ownership of common stock in each entity.

(2) Investments in joint ventures

Investee	Nature of Relationship with Joint Venture	Percentage of Ownership¹ (%)	Principal Business Location
Samsung Corning Advanced Glass	Manufacture and supply industrial glass devices	50.0	Korea

¹ Ownership represents the Group's ownership of common stock in each entity.

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NOTES TO INTERIM CONSOLIDATED FINANCIAL STATEMENTS

(C) Details of investments in associates and joint ventures as of June 30, 2016 and December 31, 2015, are as follows:

(1) Investments in associates

(In millions of Korean won)

Investee	June 30, 2016		
	Acquisition cost	Net asset value of equity shares ¹	Book value
Samsung Card	₩ -	₩ -	₩ -
Samsung Electro-Mechanics	359,237	981,187	968,442
Samsung SDS	147,963	1,081,313	1,105,551
Samsung Biologics	560,469	1,288,698	1,294,815
Others	583,655	200,190	332,746
Total	₩ 1,651,324	₩ 3,551,388	₩ 3,701,554

¹ The Group's portion of net asset value of associates is based on the Group's ownership percentage.

(In millions of Korean won)

Investee	December 31, 2015		
	Acquisition cost	Net asset value of equity shares ¹	Book value
Samsung Card	₩ 1,538,540	₩ 2,504,778	₩ 1,338,679
Samsung Electro-Mechanics	359,237	987,695	994,489
Samsung SDS	147,963	1,036,142	1,060,396
Samsung Biologics	545,665	1,300,185	1,310,202
Others	583,756	191,272	323,513
Total	₩ 3,175,161	₩ 6,020,072	₩ 5,027,279

¹ The Group's portion of net asset value of associates is based on the Group's ownership percentage.

(2) Investments in joint ventures

(In millions of Korean won)

Investee	June 30, 2016		
	Acquisition cost	Net asset value of equity shares ¹	Book value
Samsung Corning Advanced Glass	₩ 215,000	₩ 178,101	₩ 178,054
Others	259,977	112,253	62,917
Total	₩ 474,977	₩ 290,354	₩ 240,971

¹ The Group's portion of net asset value of joint ventures is based on the Group's ownership percentage.

(In millions of Korean won)

Investee	December 31, 2015		
	Acquisition cost	Net asset value of equity shares ¹	Book value
Samsung Corning Advanced Glass	₩ 215,000	₩ 188,431	₩ 188,371
Others	259,977	104,440	60,698
Total	₩ 474,977	₩ 292,871	₩ 249,069

¹ The Group's portion of net asset value of joint ventures is based on the Group's ownership percentage.

Samsung Electronics Co., Ltd. and its Subsidiaries

NOTES TO INTERIM CONSOLIDATED FINANCIAL STATEMENTS

(D) Details of the valuation of investments in associates and joint ventures under the equity method, are as follows:

(1) For the six months ended June 30, 2016

<i>(In millions of Korean won)</i>	Balance as of January 1	Gain/loss on valuation	Other comprehensive income/loss	Others¹	Balance as of June 30
Samsung Card	₩ 1,338,679	₩ -	₩ -	₩ (1,338,679)	₩ -
Samsung Electro-Mechanics	994,489	4,884	(22,085)	(8,846)	968,442
Samsung SDS	1,060,396	56,852	(2,960)	(8,737)	1,105,551
Samsung Biologics	1,310,202	(27,817)	(252)	12,682	1,294,815
Samsung Corning Advanced Glass	188,371	(10,317)	-	-	178,054
Others	384,211	(10,179)	3,553	18,078	395,663
Total	₩ 5,276,348	₩ 13,423	₩ (21,744)	₩ (1,325,502)	₩ 3,942,525

¹ Others consist of acquisitions, disposals, dividends and effects of changes in foreign exchange rates.

(2) For the six months ended June 30, 2015

<i>(In millions of Korean won)</i>	Balance as of January 1	Gain/loss on valuation	Other comprehensive income/loss	Others¹	Balance as of June 30
Samsung Card	₩ 2,354,026	₩ 65,813	₩ 11,280	₩ (43,219)	₩ 2,387,900
Samsung Electro-Mechanics	1,040,404	8,915	1,825	(14,084)	1,037,060
Samsung SDS	951,776	47,496	(541)	(8,732)	989,999
Samsung Biologics	293,975	(29,067)	(3,788)	66,700	327,820
Samsung Corning Advanced Glass	195,930	(4,621)	24	-	191,333
Others	396,350	1,642	(5,034)	(24,027)	368,931
Total	₩ 5,232,461	₩ 90,178	₩ 3,766	₩ (23,362)	₩ 5,303,043

¹ Others consist of acquisitions, disposals, dividends, impairment and effects of changes in foreign exchange rates.

Samsung Electronics Co., Ltd. and its Subsidiaries

NOTES TO INTERIM CONSOLIDATED FINANCIAL STATEMENTS

(E) Summary of condensed financial information of major associates and joint ventures

(1) A summary of condensed financial information of major associates and dividends received from associates as of June 30, 2016 and December 31, 2015, and for the six months ended June 30, 2016 and 2015, is as follows:

(In millions of Korean won)

Investee	2016		
	Samsung Electro-Mechanics	Samsung SDS	Samsung Biologics
1. Condensed financial information			
Condensed statements of financial position:			
Current assets	₩ 2,913,683	₩ 4,130,280	₩ 239,511
Non-current assets	4,388,042	2,304,716	5,797,735
Current liabilities	1,821,810	1,216,954	2,076,024
Non-current liabilities	1,191,617	222,525	1,264,677
Non-controlling interests	98,753	208,474	-
Condensed statements of comprehensive income:			
Revenue	3,220,720	3,797,127	136,289
Profit(Loss) from continuing operations ¹	47,790	250,067	(75,401)
Other comprehensive income (loss) ¹	(94,408)	(13,111)	(2,888)
Total comprehensive income (loss) ¹	(46,618)	236,956	(78,289)
2. Dividends from associates			
Dividends	₩ 8,847	₩ 8,736	₩ -

¹ Income (Loss) attributable to owners of the parent.

(In millions of Korean won)

Investee	2015			
	Samsung Card ¹	Samsung Electro-Mechanics	Samsung SDS	Samsung Biologics
1. Condensed financial information				
Condensed statements of financial position:				
Current assets	₩ 19,070,997	₩ 2,729,971	₩ 3,845,289	₩ 192,854
Non-current assets		4,539,482	2,486,390	5,767,640
Current liabilities	12,382,672	1,768,254	1,389,915	1,911,669
Non-current liabilities		1,185,816	164,913	1,273,990
Non-controlling interests	-	93,268	188,091	-
Condensed statements of comprehensive income:				
Revenue	1,561,878	3,421,308	3,874,986	33,206
Profit(Loss) from continuing operations ²	175,708	36,942	207,801	(26,132)
Other comprehensive income (loss) ²	30,119	4,538	(2,382)	(9,212)
Total comprehensive income (loss) ²	205,827	41,480	205,419	(35,344)
2. Dividends from associates				
Dividends	₩ 43,393	₩ 13,270	₩ 8,736	₩ -

¹ Samsung Card does not present current and non-current assets and liabilities as separate classifications in its statement of financial position.

² Income (Loss) attributable to owners of the parent

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NOTES TO INTERIM CONSOLIDATED FINANCIAL STATEMENTS

- (2) A summary of the condensed financial information of major joint ventures and dividends received from joint ventures as of June 30, 2016 and December 31, 2015, and for the six months ended June 30, 2016 and 2015, is as follows:

<i>(In millions of Korean won)</i>	Samsung Corning Advanced Glass			
	2016		2015	
1. Condensed financial information				
Condensed statements of financial position:				
Current assets	₩	210,651	₩	226,720
- Cash and cash equivalent		16,415		13,383
Non-current assets		176,358		183,313
Current liabilities		28,758		32,158
- Current financial liabilities ¹		10,126		14,111
Non-current liabilities		2,049		1,013
Condensed statements of comprehensive income²:				
Revenue		127,526		131,501
Depreciation and amortization		1,193		864
Interest income		712		571
Income tax expense		(6,182)		(952)
Net loss from continuing operations ³		(20,659)		(9,266)
Other comprehensive income (loss) ³		-		47
Total comprehensive income (loss) ³		(20,659)		(9,219)
2. Dividends from joint ventures				
Dividends	₩	-	₩	-

¹ Trade payables, other payables, and provisions are excluded.

² Amounts relate to the six months ended June 30, 2016 and 2015.

³ Profit (Loss) attributable to owners of the parent.

- (3) Profit (loss) amounts attributable to owners of the parent from associates and joint ventures which are not individually material for the six months ended June 30, 2016 and 2015, are as follows:

<i>(In millions of Korean won)</i>	2016		2015	
	Associates	Joint ventures	Associates	Joint ventures
Income (loss) from continuing operations ¹	₩ (12,002)	₩ 1,822	₩ (13,712)	₩ 690
Other comprehensive income (loss) ¹	1,476	6,987	(415)	(3,648)
Total comprehensive income (loss) ¹	₩ (10,526)	₩ 8,809	₩ (14,127)	₩ (2,958)

¹ Income (Loss) attributable to owners of the parent.

- (F) Fair value of marketable investments in associates as of June 30, 2016 and December 31, 2015, is as follows:

<i>(In millions of Korean won and number of shares)</i>	June 30, 2016		December 31, 2015
	Number of shares held	Market value	Market value
Samsung Electro-Mechanics	17,693,084	886,424	1,112,895
Samsung SDS	17,472,110	2,507,248	4,437,916

Samsung Electronics Co., Ltd. and its Subsidiaries

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7. Property, Plant and Equipment

(A) Changes in property, plant and equipment for the six months ended June 30, 2016 and 2015, are as follows:

<i>(In millions of Korean won)</i>	2016	2015
Balance as of January 1	₩ 86,477,110	₩ 80,872,950
Acquisition and capital expenditures	8,751,936	13,162,499
Business combinations	6,079	34,776
Depreciation	(9,951,595)	(9,510,191)
Disposals/scrap/impairment/reversal of impairment	(71,131)	(185,407)
Others ¹	(577,436)	291,631
Balance as of June 30	₩ 84,634,963	₩ 84,666,258

¹ Others include effects of changes in foreign currency exchange rates.

(B) Details of depreciation of property, plant and equipment for the six months ended June 30, 2016 and 2015, are as follows:

<i>(In millions of Korean won)</i>	2016	2015
Cost of sales	₩ 8,980,250	₩ 8,632,250
Selling and administrative expenses and others	971,345	877,941
Total	₩ 9,951,595	₩ 9,510,191

8. Intangible Assets

(A) Changes in intangible assets for the six months ended June 30, 2016 and 2015, are as follows:

<i>(In millions of Korean won)</i>	2016	2015
Balance as of January 1	₩ 5,396,311	₩ 4,785,473
Internally generated (development costs)	442,062	584,265
External acquisitions	175,411	229,414
Business combinations	192,022	374,224
Amortization	(686,242)	(614,658)
Disposals/scrap/impairment/reversal of impairment	(380,109)	(23,066)
Others ¹	108,342	194,761
Balance as of June 30	₩ 5,247,797	₩ 5,530,413

¹ Others include effects of changes in foreign currency exchange rates.

(B) Details of amortization of intangible assets for the six months ended June 30, 2016 and 2015, are as follows:

<i>(In millions of Korean won)</i>	2016	2015
Cost of sales	₩ 465,770	₩ 370,687
Selling and administrative expenses and others	220,472	243,971
Total	₩ 686,242	₩ 614,658

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9. Borrowings

Details of the carrying amounts of borrowings as of June 30, 2016 and December 31, 2015 are as follows:

<i>(In millions of Korean won)</i>	Financial Institutions	Annual Interest Rates (%) as of June 30, 2016	June 30, 2016	December 31, 2015
Short-term borrowings				
Collateralized borrowings ¹	Woori Bank and others	0.1 ~ 12.2	₩ 8,272,262	₩ 8,738,448
Non-collateralized borrowings	Citibank and others	0.3 ~ 18.9	1,987,496	2,416,977
Total			₩ 10,259,758	₩ 11,155,425
Current portion of long-term borrowings				
Bank borrowings	US Bank and others	3.5 ~ 6.0	₩ 651	₩ 454
Financial lease liabilities ²	CSSD and others	1.1 ~ 15.7	18,765	15,652
Total			₩ 19,416	₩ 16,106
Long-term borrowings				
Bank borrowings	Citibank and others	Libor+0.4 ~ 19.8	₩ 463,857	₩ 193,598
Financial lease liabilities ²	CSSD and others	1.1 ~ 15.7	69,365	72,944
Total			₩ 533,222	₩ 266,542

¹ Collateralized borrowings are secured by trade receivables.

² Leased property, plant and equipment were pledged as collateral.

10. Debentures

Details of the carrying amount of debentures as of June 30, 2016 and December 31, 2015 are as follows:

<i>(In millions of Korean won)</i>	June 30, 2016	December 31, 2015
Korean won denominated debentures (A)	₩ -	₩ -
Foreign currency denominated debentures (B)	62,085	1,230,448
Total	₩ 62,085	₩ 1,230,448

(A) Details of Korean won denominated debentures as of June 30, 2016 and December 31, 2015 are as follows:

<i>(In millions of Korean won)</i>	Issue Date	Due Date	Annual Interest Rates (%) as of June 30, 2016	June 30, 2016	December 31, 2015
Unsecured debentures	2011.11.17	2016.11.17	4.2	₩ 200,000	₩ 200,000
Less: Current portion				(200,000)	(200,000)
Less: Discounts				-	-
Total				₩ -	₩ -

The debenture has been issued by Samsung Display and will be repaid upon maturity.

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(B) Details of foreign currency denominated debentures as of June 30, 2016 and December 31, 2015 are as follows:

<i>(In millions of Korean Won)</i>	Issue Date	Due Date	Annual Interest Rates (%) as of June 30, 2016	June 30, 2016	December 31, 2015
US dollar denominated straight bonds ¹	1997.10.02	2027.10.01	7.7	₩ 69,882 (US\$60 million)	₩ 70,320 (US\$60 million)
US dollar denominated unsecured bonds ²	2012.04.10	2017.04.10	1.8	1,164,700 (US\$1,000 million)	1,172,000 (US\$1,000 million)
Less: Current Portion				(1,170,524)	(5,860)
Less: Discounts				(1,973)	(6,012)
Total				₩ 62,085	₩ 1,230,448

¹ US dollar denominated straight bonds are repaid annually for twenty years after a ten-year grace period from the date of issuance. Interest is paid semi-annually.

² Samsung Electronics America issued dollar denominated unsecured bonds. Repayment of these debentures is due on the date of maturity and interest is paid semi-annually.

11. Net Defined Benefit Liabilities

(A) Details of net defined benefit liabilities recognized on the consolidated statements of financial position as of June 30, 2016 and December 31, 2015 are as follows:

<i>(In millions of Korean won)</i>	June 30, 2016	December 31, 2015
Present value of funded defined benefit obligations	₩ 8,151,789	₩ 7,693,919
Present value of unfunded defined benefit obligations	148,564	138,860
Subtotal	8,300,353	7,832,779
Fair value of plan assets	(7,419,801)	(7,473,959)
Total	₩ 880,552	₩ 358,820

(B) The amounts recognized in the consolidated statements of income for the six months ended June 30, 2016 and 2015 are as follows:

<i>(In millions of Korean won)</i>	2016	2015
Current service cost	₩ 540,179	₩ 573,286
Net interest cost	5,520	2,295
Others	(3,833)	1,458
Total	₩ 541,866	₩ 577,039

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(C) The pension expenses related to defined benefit plans recognized on the consolidated statements of income for the six months ended June 30, 2016 and 2015 are as follows:

<i>(In millions of Korean won)</i>	2016		2015	
Cost of sales	₩	236,986	₩	250,880
Selling and administrative expenses and others		304,880		326,159
Total	₩	541,866	₩	577,039

12. Provisions

Changes in the provisions during the six months ended June 30, 2016 are as follows:

<i>(In millions of Korean won)</i>	Warranty (A)	Royalty expenses (B)	Long-term incentives (C)	Bonus (D)	Others (E)	Total
Balance as of January 1	₩ 1,664,526	₩ 4,443,749	₩ 753,553	₩ -	₩ 81,153	₩ 6,942,981
Charged (credited) to the statement of income	1,169,977	(369,233)	83,420	1,827,904	26,195	2,738,263
Payment	(1,057,304)	(1,355,461)	(212,464)	-	(42,320)	(2,667,549)
Others ¹	11,958	12,430	-	-	(529)	23,859
Balance as of June 30	₩ 1,789,157	₩ 2,731,485	₩ 624,509	₩ 1,827,904	₩ 64,499	₩ 7,037,554

¹ Others include effects of changes in foreign currency exchange rates.

(A) The Group accrues warranty reserves for estimated costs of future service, repairs and recalls, based on historical experience and terms of warranty programs.

(B) The Group recognizes provisions for the estimated royalty expenses that are under negotiation with counterparties. The timing of payment depends on the settlement of the negotiation.

(C) The Group has a long-term incentive plan for its executives based on a three-year management performance criteria and recognizes a provision for the estimated incentive cost for the accrued period.

(D) The Group provides bonuses for its executives and employees, which are determined based on current-period performance. The estimated bonus cost for the accrued period has been recognized as a provision.

(E) The Group makes provisions for the estimated emission expense for the emission in excess of the permits held by the Group for the applicable years. Details of emission rights and liabilities as of June 30, 2016 are as follows:

(1) Allocated amount of emission permits and estimated amount of emission as of June 30, 2016 are as follows:

<i>(In ten thousand metric tons)</i>	2016
Allocated emission permits	1,007
Estimated amount of emission	1,196

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(2) Changes in the certified emission rights for the six months ended June 30, 2016 are as follows:

<i>(In millions of Korean won)</i>	2016	
Balance as of January 1	₩	7,260
Acquisition		3,774
Balance as of June 30	₩	11,034

(3) Changes in the provisions for emissions for the six months ended June 30, 2016 are as follows:

<i>(In millions of Korean won)</i>	2016	
Balance as of January 1	₩	7,947
Charged to the statement of income		9,890
Credited to the statement of income		(7,947)
Balance as of June 30	₩	9,890

13. Commitments and Contingencies

(A) Guarantees

Details of guarantees of debt provided by the Group as of June 30, 2016 and December 31, 2015 are as follows:

<i>(In millions of Korean won)</i>	June 30, 2016		December 31, 2015	
Guarantees of debt for housing rental ¹	₩	58,788	₩	64,753

¹ Represents the maximum amount of debt guarantee, which was provided for employees who took debt from financial institutions in order to finance employee housing rental.

In addition to the guarantees described above, the Group provides guarantees for borrowings by Medicapital from Dime Investment and two other companies in the amount of ₩ 2,264 million.

(B) Litigation

(1) The litigation with Apple Inc. ("Apple") is ongoing in the United States as of the reporting date. On August 24, 2012, the jury determined that the Group partially infringed Apple's design and utility patent and should pay damages to Apple. However, on March 1, 2013, the Judge ordered a new trial for a certain portion of the damages, ruling that it was originally miscalculated. On November 21, 2013 a jury verdict was rendered on the recalculated damages amount, and on March 6, 2014, the Judge made a final judgement to confirm the total damages and deny Apple's bid for a permanent injunction against the Group. The Group appealed the decision on the damages amount on March 7, 2014, and a hearing on the appeal was held on December 4, 2014. On May 18, 2015, the appeals court affirmed in part and reversed in part a previous decision, and remanded it. On June 17, 2015, the Group petitioned for an en banc rehearing regarding the design infringement, and on August 13, 2015, the federal court dismissed the Group's request. After the remand procedure, the court of first trial announced a partial final judgment on the appeals on September 18, 2015. On October 13, 2015, the immediate appeal was dismissed and on November 19, 2015, the Federal Circuit Court denied an en banc rehearing request. On December 11, 2015, the Group made payment for the damages. On December 14, 2015, the Group filed an appeal to the Supreme Court related to design. Thereafter, the two parties have submitted in writing to the district court details of supplemental damages incurred in connection with the ruling. On March 21, 2016, the Supreme Court granted the Group's certiorari petition related to design and on March 22, 2016, the district court stayed remand proceedings including a hearing for supplemental damages and re-trial which was supposed to start from March 28, 2016. On June 1, the Company has submitted in writing a merits brief related

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to design infringements to the Supreme Court. On June 8, following the Company's filing of the merits brief, several companies have submitted amicus briefs in support of the Company's position.

Additionally, on May 5, 2014, the jury in another ongoing patent lawsuit determined that the Group partially infringed Apple's utility patent and should pay damages to Apple. On November 25, 2014, the first trial judgment was pronounced to confirm the jury's verdict. The Group appealed on November 25, 2014 and the rehearing was held on January 5, 2016. On August 27, 2014, the Judge denied Apple's request for a permanent injunction on the Group's product. However, on September 17, 2015, the appellate court reversed and remanded a previous decision and on December 16, 2015, the Federal Circuit Court denied an en banc hearing request of the Group. On January 18, 2016, the court of first instance ordered a permanent injunction on the Group's product. On February 26, 2016, the appellate court reversed the first trial judgment and ruled that the Group had not infringed Apple's some patents and its remaining patents were invalid. Based on the rulings of the appellate court, the Group plans to appeal the permanent injunction. On March 30, 2016, Apple filed a petition for an en banc rehearing about the rulings of the appellate court. The final conclusion and the effect of the patent lawsuits with Apple are uncertain as at the reporting date.

In August 2014, the Group and Apple reached an agreement to withdraw from ongoing litigation in all regions other than the United States, and the Group has withdrawn all non-United States based lawsuits.

- (2) The Group is involved in claims, disputes, and investigations conducted by regulatory bodies at the reporting date, including civil claims from some overseas buyers for price-fixing related to the sale of TFT-LCD. Although the outflow of resources and timing of these matters are uncertain, the Group believes the outcome will not have a material impact on the financial condition of the Group.
- (3) In addition, during the normal course of business with numerous companies, the Group has been involved in various claims, disputes, and investigations conducted by regulatory bodies. Although the outflow of resources and timing of these matters are uncertain, the Group believes the outcome will not have a material impact on the financial condition of the Group.

(C) Other commitments

Samsung Display entered into a collaboration agreement with Corning Incorporated on October 23, 2013 that includes a condition relating to mutual loss preservation which can cause inflows or outflows of future economic benefits and the Group has recorded an estimated liability as a result of this commitment as of June 30, 2016.

14. Share Capital

The Company's total number of authorized shares is 500,000,000 shares (₩5,000 per share). The Company has issued 142,969,337 shares of common stock and 21,063,427 shares of preferred stock as of June 30, 2016, excluding retired shares. Due to the retirement of shares, the total par value of the shares issued is ₩ 820,164 million (common stock ₩714,847 million and preferred stock ₩105,317 million), which does not agree with paid-in capital of ₩897,514 million.

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15. Retained Earnings

(A) Retained earnings as of June 30, 2016 and December 31, 2015 consist of:

<i>(In millions of Korean won)</i>	June 30, 2016	December 31, 2015
Appropriated	₩ 140,709,326	₩ 131,539,594
Unappropriated	45,211,162	53,592,420
Total	₩ 185,920,488	₩ 185,132,014

(B) On July 28, 2016, the Company declared cash dividends to shareholders of common stock and preferred stock as interim dividends for the six months ended June 30, 2016.

Details of interim dividends for the six months ended June 30, 2016 and 2015 are as follows:

<i>(In millions of Korean won)</i>		June 30, 2016	June 30, 2015
Number of shares eligible for dividends	Common stock	123,958,561	129,312,651
	Preferred stock	17,580,920	19,603,734
Dividend rate (based on par value)		20%	20%
Dividend amount	Common stock	₩ 123,958	₩ 129,313
	Preferred stock	17,581	19,603
	Total	₩ 141,539	₩ 148,916

16. Other Components of Equity

(A) Other components of equity as of June 30, 2016 and December 31, 2015 consist of:

<i>(In millions of Korean won)</i>	June 30, 2016	December 31, 2015
Treasury stock	₩ (11,408,020)	₩ (13,442,379)
Unrealized gains on available-for-sale financial assets	1,488,821	1,478,330
Share of other comprehensive income of associates and joint ventures	37,423	362,342
Foreign currency translation	(3,957,919)	(4,091,202)
Remeasurement of net defined benefit liabilities	(1,784,852)	(1,737,809)
Others	41,005	(149,733)
Total	₩ (15,583,542)	₩ (17,580,451)

(B) The Group repurchases registered common stock and non-voting preferred stock and recognizes the repurchase amount in other components of equity. Such stock will be distributed upon retirement of shares. Treasury stock as of June 30, 2016 and December 31, 2015 consists of the following:

<i>(In millions of Korean won and number of shares)</i>	June 30, 2016		December 31, 2015	
	Common Stock	Preferred Stock	Common Stock	Preferred Stock
Number of shares	19,010,776	3,482,507	19,902,489	4,285,594
Acquisition cost	₩ 10,251,053	₩ 1,156,967	₩ 11,377,539	₩ 2,064,840

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17. Expenses by Nature

Expenses by nature for the three and six months ended June 30, 2016 and 2015 consist of the following:

<i>(In millions of Korean won)</i>	June 30, 2016		June 30, 2015	
	3 Months	6 Months	3 Months	6 Months
Changes in finished goods and work in process	₩ 544,893	₩ 430,461	₩ (484,514)	₩ (1,622,483)
Raw materials and goods	17,826,020	36,692,950	17,594,482	36,774,899
Wages and salaries	4,765,275	9,640,094	4,491,973	9,206,717
Pension	297,731	590,094	297,271	610,294
Depreciation	4,830,220	9,951,595	4,946,806	9,510,191
Amortization	339,298	686,242	308,714	614,658
Welfare	924,426	1,836,056	1,030,095	1,890,175
Commission and service charges	2,099,558	4,296,835	2,134,668	4,079,577
Others	11,165,749	21,775,283	11,320,107	21,714,125
Total¹	₩ 42,793,170	₩ 85,899,610	₩ 41,639,602	₩ 82,778,153

¹ Equal to the sum of cost of sales and selling and administrative expenses on the interim consolidated statements of income.

18. Selling and Administrative Expenses

Selling and administrative expenses for the three and six months ended June 30, 2016 and 2015 are as follows:

<i>(In millions of Korean won)</i>	June 30, 2016		June 30, 2015	
	3 Months	6 Months	3 Months	6 Months
1) Selling and administrative expenses				
Wages and salaries	₩ 1,371,882	₩ 2,836,904	₩ 1,328,872	₩ 2,698,273
Pension	72,452	138,932	64,762	133,463
Commission and service charges	2,099,558	4,296,835	2,134,668	4,079,577
Depreciation	195,531	388,951	174,036	346,370
Amortization	54,245	112,585	63,765	141,282
Advertising	1,190,427	2,312,595	1,046,034	1,699,833
Sales promotion	1,719,811	3,380,323	1,852,153	3,380,253
Transportation	832,437	1,587,331	819,826	1,618,811
Warranty	792,637	1,557,509	714,546	1,420,427
Others	1,356,371	2,239,451	1,149,794	2,522,090
2) Research and development expenses				
Total expenses	3,695,571	7,507,280	3,615,335	7,411,053
Capitalized expenses	(196,870)	(442,062)	(279,788)	(584,265)
Total	₩ 13,184,052	₩ 25,916,634	₩ 12,684,003	₩ 24,867,167

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19. Other Non-Operating Income and Expense

Details of other non-operating income and expense for the three and six months ended June 30, 2016 and 2015 are as follows:

<i>(In millions of Korean won)</i>	June 30, 2016		June 30, 2015	
	3 Months	6 Months	3 Months	6 Months
Non-operating income				
Dividend income	₩ 57,788	₩ 181,871	₩ 49,434	₩ 110,500
Rental income	23,104	46,496	24,725	47,136
Gain on disposal of investments	28,346	387,299	159,823	193,609
Gain on disposal of property, plant and equipment	27,341	43,462	30,698	64,403
Gain on disposal of assets classified as held-for-sale	-	69,924	207,796	207,796
Others	139,145	249,265	176,967	392,131
Total	₩ 275,724	₩ 978,317	₩ 649,443	₩ 1,015,575

<i>(In millions of Korean won)</i>	June 30, 2016		June 30, 2015	
	3 Months	6 Months	3 Months	6 Months
Non-operating expense				
Loss on disposal of property, plant and equipment	₩ 31,929	₩ 45,000	₩ 13,432	₩ 46,506
Donations	43,224	175,393	41,186	161,498
Impairment losses on intangible assets	298,281	355,365	16,587	17,782
Others	142,019	278,331	77,634	239,272
Total	₩ 515,453	₩ 854,089	₩ 148,839	₩ 465,058

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20. Financial Income and Expense

(A) Details of financial income and expense for the three and six months ended June 30, 2016 and 2015 are as follows:

<i>(In millions of Korean won)</i>	June 30, 2016		June 30, 2015	
	3 Months	6 Months	3 Months	6 Months
Financial income				
Interest income:	₩ 331,749	₩ 724,730	₩ 426,880	₩ 869,154
Interest income from loans and receivables	322,286	696,791	403,127	818,111
Interest income from available-for-sale financial assets	9,463	27,939	23,753	51,043
Foreign exchange differences	1,452,304	3,881,744	1,614,742	3,259,235
Gains from derivatives	202,010	459,518	134,092	446,977
Total	₩ 1,986,063	₩ 5,065,992	₩ 2,175,714	₩ 4,575,366

<i>(In millions of Korean won)</i>	June 30, 2016		June 30, 2015	
	3 Months	6 Months	3 Months	6 Months
Financial expense				
Interest expense:	₩ 117,922	₩ 284,403	₩ 189,219	₩ 356,137
Interest expense from financial liabilities measured at amortized cost	62,041	175,631	118,426	217,117
Other financial liabilities	55,881	108,772	70,793	139,020
Foreign exchange differences	1,519,523	4,078,150	1,561,082	3,374,645
Losses from derivatives	185,156	466,408	230,900	515,916
Total	₩ 1,822,601	₩ 4,828,961	₩ 1,981,201	₩ 4,246,698

(B) The Group recognizes foreign exchange gains and losses arising from foreign currency transactions and translation as financial income and expense.

21. Income Tax Expense

Income tax expense is recognized based on management's best estimate of the average annual effective income tax rate expected for the full financial year. The average annual tax rate expected as of June 30, 2016 to be effective for the year ended December 31, 2016 is 26.9%.

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22. Earnings per Share

(A) Basic earnings per share

Basic earnings per share for the three and six months ended June 30, 2016 and 2015 are calculated as follows:

(1) Common stock

<i>(In millions of Korean won and thousands of number of shares, except per share data)</i>	June 30, 2016		June 30, 2015	
	3 Months	6 Months	3 Months	6 Months
Profit attributable to owners of the Parent company	₩ 5,826,178	₩ 11,089,684	₩ 5,626,734	₩ 10,146,057
Profit available for common stock	5,102,304	9,711,826	4,885,804	8,809,979
Weighted-average number of common shares outstanding	124,739	125,693	129,313	129,387
Basic earnings per share <i>(in Korean won)</i>	₩ 40,904	₩ 77,266	₩ 37,783	₩ 68,090

(2) Preferred stock

<i>(In millions of Korean won and thousands of number of shares, except per share data)</i>	June 30, 2016		June 30, 2015	
	3 Months	6 Months	3 Months	6 Months
Profit attributable to owners of the Parent company	₩ 5,826,178	₩ 11,089,684	₩ 5,626,734	₩ 10,146,057
Profit available for preferred stock	723,874	1,377,858	740,930	1,336,078
Weighted-average number of preferred shares outstanding	17,773	18,016	19,604	19,614
Basic earnings per preferred share <i>(in Korean won)</i>	₩ 40,728	₩ 76,479	₩ 37,795	₩ 68,118

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(B) Diluted earnings per share

The Group had one category of potentially dilutive ordinary shares: stock options. Dilutive earnings per share is calculated by adjusting the weighted average number of ordinary shares outstanding to assume conversion of all dilutive potential ordinary shares. All remaining stock options were exercised during the year ended December 31, 2015, and as a result, basic earnings per share and diluted earnings per share are the same for the three and six months ended June 30, 2016.

Diluted earnings per share for the three and six months ended June 30, 2016 and 2015 are calculated as follows:

(1) Common stock

<i>(In millions of Korean won and thousands of number of shares, except per share data)</i>	June 30, 2016		June 30, 2015	
	3 Months	6 Months	3 Months	6 Months
Profit available for common stock and common stock equivalents	₩ 5,102,304	₩ 9,711,826	₩ 4,885,829	₩ 8,810,023
Weighted-average number of shares of common stock and dilutive potential common stock	124,739	125,693	129,315	129,390
Diluted earnings per share <i>(in Korean won)</i>	₩ 40,904	₩ 77,266	₩ 37,782	₩ 68,089

(2) Preferred stock

<i>(In millions of Korean won and thousands of number of shares, except per share data)</i>	June 30, 2016		June 30, 2015	
	3 Months	6 Months	3 Months	6 Months
Profit available for preferred stock and preferred stock equivalents	₩ 723,874	₩ 1,377,858	₩ 740,905	₩ 1,336,034
Weighted-average number of shares of preferred stock and dilutive potential preferred stock	17,773	18,016	19,604	19,614
Diluted earnings per preferred share <i>(in Korean won)</i>	₩ 40,728	₩ 76,479	₩ 37,794	₩ 68,116

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23. Cash Flows Generated from Operating Activities

Adjustments and changes in assets and liabilities arising from operating activities for the six months ended June 30, 2016 and 2015 are as follows:

- Adjustments

<i>(In millions of Korean won)</i>	2016	2015
Adjustments for:		
Income tax expense	₩ 4,094,248	₩ 3,468,555
Finance income	(1,707,389)	(1,969,355)
Finance expense	1,440,314	1,385,416
Severance and retirement benefits	590,094	610,294
Depreciation	9,951,595	9,510,191
Amortization	686,242	614,658
Bad debt expenses	364,587	161,644
Gain on valuation of equity method	(13,423)	(90,178)
Gain on disposal of property, plant and equipment	(43,462)	(64,403)
Loss on disposal of property, plant and equipment	45,000	46,506
Impairment losses on intangible assets	355,365	17,782
Obsolescence and scrapping of inventories	727,437	124,054
Gain on disposal of investments	(387,299)	(193,609)
Gain on disposal of assets classified as held-for-sale	(69,924)	(207,796)
Dividend income	(181,871)	(110,500)
Others	(245,438)	(161,159)
Total	₩ 15,606,076	₩ 13,142,100

- Changes in assets and liabilities arising from operating activities

<i>(In millions of Korean won)</i>	2016	2015
Changes in assets and liabilities :		
Increase in trade receivables	₩ (605,860)	₩ (275,855)
Decrease in other receivables	330,764	797,578
Decrease (increase) in advances	44,095	(71,322)
Decrease (increase) in prepaid expenses	(469,240)	261,167
Decrease (increase) in inventories	278,205	(2,149,805)
Increase (decrease) in trade payables	973,643	(1,042,385)
Decrease in other payables	(1,320,082)	(1,216,393)
Decrease in advances received	(65,749)	(43,035)
Increase (decrease) in withholdings	244,035	(208,114)
Decrease in accrued expenses	(1,379,940)	(3,444,139)
Increase in provisions	65,109	1,954,402
Payment of severance benefits	(256,200)	(223,050)
Others	867,059	(60,416)
Total	₩ (1,294,161)	₩ (5,721,367)

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24. Financial Risk Management

The Group's financial risk management focuses on minimizing market risk, credit risk, and liquidity risk arising from operating activities. To mitigate these risks, the Group implements and operates a financial risk policy and program that closely monitors and manages such risks.

The finance team mainly carries out the Group's financial risk management. With the cooperation of the Group's divisions, domestic and foreign subsidiaries, the finance team periodically measures, evaluates and hedges financial risk and also establishes and implements the global financial risk management policy.

Also, financial risk management officers are dispatched to the regional headquarters of each area including the United States, United Kingdom, Singapore, China, Brazil and Russia to operate the local finance center in accordance with global financial risk management.

The Group's financial assets that are under financial risk management are comprised of cash and cash equivalents, short-term financial instruments, available-for-sale financial assets, trade and other receivables and other financial assets. The Group's financial liabilities under financial risk management are comprised of trade and other payables, borrowings, debentures, and other financial liabilities.

(A) Market risk

(1) Foreign exchange risk

The Group is exposed to foreign exchange risk arising from various currency exposures, primarily with respect to the United States, European Union, South America, Japan and other Asian countries. Revenues and expenses arise from foreign currency transactions and exchange positions, and the most widely used currencies are the US Dollar, EU's Euro, Japanese Yen and Chinese Yuan.

To minimize foreign exchange risk arising from operating activities, the Group's foreign exchange management policy requires normal business transactions to be in local currency or for the cash-in currency to be matched up with the cash-out currency. The Group's foreign exchange risk management policy also defines foreign exchange risk, measuring period, controlling responsibilities, management procedures, hedging period and hedge ratio.

The Group limits all speculative foreign exchange transactions and operates a system to manage receivables and payables denominated in foreign currency. It evaluates, manages and reports foreign currency exposures to receivables and payables.

(2) Price risk

The Group's investment portfolio consists of direct and indirect investments in equity securities classified as available-for-sale, which is in line with the Group's strategy.

As of June 30, 2016 and December 31, 2015, a price fluctuation in relation to marketable equity securities by 1% would result in changes in other comprehensive income (before income tax) of ₩43,968 million and ₩46,748 million, respectively.

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(3) Interest rate risk

Risk of changes in interest rates for floating interest rate financial instruments is defined as the risk that the fair value of components of the statement of financial position, and future cash flows of interest income (expenses) of a financial instrument, will fluctuate because of changes in market interest rates. The Group is exposed to interest rate risk mainly through interest bearing liabilities and assets. The Group's position with regard to interest rate risk exposure is mainly driven by its floating interest rate debt obligations and interest-bearing deposits. The Group implemented policies and operates to minimize uncertainty arising from changes in interest rates and finance costs.

In order to avoid interest rate risk, the Group maintains minimum external borrowings by facilitating cash pooling systems on a regional and global basis. The Group manages exposed interest rate risk via periodic monitoring and handles risk factors on a timely basis.

(B) Credit risk

Credit risk arises during the normal course of transactions and investing activities where clients or other parties fail to discharge an obligation. The Group monitors and sets the client's and counterparty's credit limit on a periodic basis based on the client's and counterparty's financial conditions, default history and other important factors. Adequate insurance coverage is maintained for accounts receivables related to trading partners situated in higher risk countries.

Credit risk can arise from transactions with financial institutions which include financial instrument transactions such as cash and cash equivalents, savings, and derivative instruments. To minimize such risk, the Group transacts only with banks which have strong international credit rating (S&P A and above), and all new transactions with financial institutions with no prior transaction history are approved, managed and monitored by the Group's finance team and the local finance center. The Group requires separate approval for contracts with restrictions.

The Group estimates that its maximum exposure to credit risk is the carrying value of its financial assets, net of impairment losses.

(C) Liquidity risk

Due to large investments made by the Group, maintaining adequate levels of liquidity risk is critical. The Group strives to achieve this goal by periodically forecasting its capital balance, estimating required cash levels, and managing income and expenses.

The Group manages its liquidity risk by periodically forecasting projected cash flows. If abnormal signs are identified, the Group works with the local finance center and provides liquidity support by utilizing a globally integrated finance structure, such as Cash Pooling. In addition, the Group maintains a liquidity management process which provides additional financial support by the local finance center and the Group. The Cash Pooling program allows sharing of surplus funds among entities and contributes to minimizing liquidity risk and strengthening the Group's competitive position by reducing capital operation expenses and financial expenses.

In addition, the Group mitigates liquidity risk by contracting with financial institutions with respect to bank overdrafts and foreign trade finance, and by providing payment guarantees to subsidiaries. For large scale facility investments, liquidity risk is minimized by utilizing internal reserves and long term borrowings according to the capital injection schedule.

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(D) Capital risk management

The purpose of capital management is to maintain a sound capital structure. The Group monitors capital on the basis of the ratio of total liabilities to total equity. This ratio is calculated by dividing total liabilities by total equity in the consolidated financial statements.

The Group's capital risk management policy has not changed since the fiscal year ended December 31, 2015. As of June 30, 2016, the Group has maintained an A+ and A1 credit rating from S&P and Moody's, respectively, on its long term debt.

The total liabilities to equity ratios as of June 30, 2016 and December 31, 2015 are as follows:

<i>(In millions of Korean won)</i>	June 30, 2016	December 31, 2015
Total liabilities	₩ 62,118,157	₩ 63,119,716
Total equity	181,842,516	179,059,805
Total liabilities to equity ratio	34.2%	35.3%

(E) Fair value estimation

(1) Carrying amounts and fair values of financial instruments by category as of June 30, 2016 and December 31, 2015 are as follows:

<i>(In millions of Korean won)</i>	June 30, 2016		December 31, 2015	
	Carrying amount	Fair value	Carrying amount	Fair value
Financial assets				
Cash and cash equivalents ¹	₩ 25,840,759	₩ -	₩ 22,636,744	₩ -
Short-term financial instruments ¹	47,449,558	-	44,228,800	-
Short-term available-for-sale financial assets	3,781,006	3,781,006	4,627,530	4,627,530
Trade receivables ¹	26,081,803	-	25,168,026	-
Long-term available-for-sale financial assets ²	8,398,201	8,318,851	8,332,480	8,225,687
Others	3,242,214	3,174,949	3,546,434	3,420,292
Total financial assets	₩ 114,793,541		₩ 108,540,014	
Financial liabilities				
Trade payables ¹	₩ 7,344,748	₩ -	₩ 6,187,291	₩ -
Short-term borrowings ¹	10,259,758	-	11,155,425	-
Other payables ¹	6,451,707	-	7,625,490	-
Current portion of long-term liabilities ¹	1,389,682	-	221,548	-
Debentures	62,085	91,250	1,230,448	1,261,783
Long-term borrowings	533,222	504,800	266,542	242,603
Long-term other payables	2,904,516	2,976,246	2,719,674	2,581,985
Others ¹	9,255,644	-	7,947,398	-
Total financial liabilities	₩ 38,201,362		₩ 37,353,816	

¹ Assets and liabilities whose carrying amount is a reasonable approximation of fair value are excluded from the fair value disclosures.

² Amounts measured at cost (June 30, 2016: ₩79,350 million, December 31, 2015: ₩106,793 million) are excluded as the range of reasonable fair value estimates is significant and the probabilities of the various estimates cannot be reasonably assessed.

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(2) The following table presents the assets and liabilities by level, that are measured at fair value:

		June 30, 2016			
<i>(In millions of Korean won)</i>	Level 1	Level 2	Level 3	Total balance	
Assets					
Short-term available-for-sale financial assets	₩ -	₩ 3,781,006	₩ -	₩ 3,781,006	
Long-term available-for-sale financial assets	4,396,800	67,315	3,854,736	8,318,851	
Others	-	79,153	517	79,670	
Liabilities					
Long-term other payables	₩ -	₩ -	₩ 323,381	₩ 323,381	
Others	-	73,883	-	73,883	

		December 31, 2015			
<i>(In millions of Korean won)</i>	Level 1	Level 2	Level 3	Total balance	
Assets					
Short-term available-for-sale financial assets	₩ -	₩ 4,627,530	₩ -	₩ 4,627,530	
Long-term available-for-sale financial assets	4,674,753	78,189	3,472,745	8,225,687	
Others	-	47,578	15,599	63,177	
Liabilities					
Long-term other payables	₩ -	₩ -	₩ 312,738	₩ 312,738	
Others	-	38,829	-	38,829	

The levels of the fair value hierarchy and its application to financial assets and liabilities are described below.

- Level 1: Quoted prices (unadjusted) in active markets for identical assets or liabilities
- Level 2: Inputs other than quoted prices included within Level 1 that are observable for the asset or liability, either directly or indirectly
- Level 3: Inputs for the asset or liability that are not based on observable market data (that is, unobservable inputs)

The fair value of financial instruments traded in active markets is based on quoted market prices at the statement of financial position date. A market is regarded as active if quoted prices are readily and regularly available from an exchange, dealer, broker, industry group, pricing service, or regulatory agency, and those prices represent actual and regularly occurring market transactions on an arm's length basis. The quoted market price used for financial assets held by the Group is the current bid price. These instruments are included in Level 1. Instruments included in Level 1 are listed equity investments classified as trading securities or available-for-sale financial assets.

The fair value of financial instruments that are not traded in an active market (for example, over-the-counter derivatives) is determined by using valuation techniques. These valuation techniques maximize the use of observable market data where it is available and rely as little as possible on entity specific estimates. If all significant inputs required to fair value an instrument are observable, the instrument is included in Level 2.

If one or more of the significant inputs are not based on observable market data, the instrument is included in Level 3.

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The Group performs the fair value measurements required for financial reporting purposes, including Level 3 fair values and discusses valuation processes and results at least once every quarter in line with the Group's quarterly reporting dates. The Group's policy is to recognize transfers between levels at the end of the reporting period, if corresponding events or changes in circumstances have occurred.

Specific valuation techniques used to value financial instruments include:

- Quoted market prices or dealer quotes for similar instruments
- The fair value of forward foreign exchange contracts is determined using forward exchange rates at the statement of financial position date, with the resulting value discounted back to present value

Other techniques, such as discounted cash flow analysis, are used to determine fair value for the remaining financial instruments. For trade and other receivables, the book value approximates a reasonable estimate of fair value.

(3) Valuation technique and the inputs

The Group utilizes a present value technique to discount future cash flows using an appropriate interest rate for corporate bonds, government and public bonds, and bank debentures that are classified as Level 2 in the fair value hierarchy.

The following table presents the valuation technique and the inputs used for major financial instruments classified as Level 3.

(In millions of Korean won)

Classification	Fair Value	Valuation Technique	Level 3 Inputs	Input Range (Weighted Average)
Long-term available-for-sale financial assets				
Maltani (formerly Taewon Lighting)	₩ 15,860	Discounted cash flow	Permanent growth rate Weighted average cost of capital	-1.00% ~ 1.00% (0%) 7.29%~9.29%(8.28%)
Samsung Venture Investment	7,207	Discounted cash flow	Permanent growth rate Weighted average cost of capital	-1.00% ~ 1.00% (0%) 11.37%~13.37%(12.37%)
Corning Incorporated convertible preferred stock	3,096,522	Trinomial model	Risk adjusted discount rate Price volatility	4.95%~6.95%(5.95%) 29.0%~35.0%(32.0%)
China Star Optoelectronics Technology Co.,Ltd. (CSOT)	278,557	Discounted cash flow	Weighted average cost of capital	9.41%~11.51%(10.46%)
Derivatives				
Embedded derivatives (convertible bonds)	517	Binomial model	Discount rate Stock price volatility	4.63%~5.66%(5.15%) 17.01%~20.79%(18.90%)
Long-term other payables				
Contingent financial liability	323,381	Discounted cash flow	Discount rate	3.81%~4.65%(4.23%)

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(4) Changes in Level 3 instruments:

<i>(In millions of Korean won)</i>	June 30, 2016		June 30, 2015	
Balance as of January 1	₩	3,175,606	₩	3,548,095
Purchases		65,059		55,740
Disposals		(66,713)		(103,975)
Amount recognized in profit or loss		(22,383)		372
Amount recognized in other comprehensive income		376,065		(254,738)
Others		4,238		(2,303)
Balance as of June 30	₩	3,531,872	₩	3,243,191

(5) Sensitivity analysis for recurring fair value measurements categorized within Level 3

Sensitivity analysis of financial instruments is performed to measure favorable and unfavorable changes in the fair value of financial instruments which are affected by the unobservable parameters, using a statistical technique. When the fair value is affected by more than two input parameters, the amounts represent the most favorable or most unfavorable.

The results of the sensitivity analysis for the effect on profit or loss (other comprehensive income or loss before tax) from changes in inputs for major financial instruments which are categorized within Level 3 and subject to sensitivity analysis, are as follows:

<i>(In millions of Korean won)</i>	Classification	Favorable Changes		Unfavorable Changes	
		Profit or Loss	Equity	Profit or Loss	Equity
	Long-term available-for-sale financial assets ¹	₩ -	₩ 324,459	₩ -	₩ (200,920)
	Embedded derivatives (convertible bonds) ²	126	126	(121)	(121)
	Long-term other payables ³	2,509	2,509	(2,489)	(2,489)
	Total	₩ 2,635	₩ 327,094	₩ (2,610)	₩ (203,530)

¹ Changes in fair value are calculated by increasing or decreasing the correlation between volatility (29.0%~35.0%) and discount rate for convertible preferred stock. Similarly, for other equity securities, changes in fair value are calculated with the correlation between growth ratio (-1% to 1%) and discount rate, which are significant unobservable inputs.

² For equity derivatives, changes in its fair value are calculated by increasing or decreasing the correlation between discount rate and volatility by 10%.

³ The fair value of long-term other payables is calculated by increasing or decreasing the correlation between discount rate and volatility by 10% which are significant unobservable inputs.

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25. Segment Information

(A) Operating segment information

The chief operating decision maker has been identified as the Management Committee. The Management Committee is responsible for making strategic decisions based on review of the Group's internal reporting. The Management Committee has determined the operating segments based on these reports.

The Management Committee reviews operating profits of each operating segment in order to assess performance and to make decisions about allocating resources to the segment. The operating segments are product based and include CE, IM, Semiconductor, DP and others.

Depreciation, amortization of intangible assets, and operating profit were prepared after the allocation of internal transaction adjustments. Total assets and liabilities of each operating segment are excluded from the disclosure as these have not been provided regularly to the Management Committee.

(1) For the six months ended June 30, 2016

<i>(In millions of Korean won)</i>	DS						Intercompany elimination within the Group	Consolidated
	CE	IM	Total ¹	Semi- conductor	DP	Total ¹		
Total segment revenue	53,162,225	113,168,491	72,765,179	45,549,412	25,364,270	239,698,430	(138,979,058)	100,719,372
Intercompany revenue	(30,992,070)	(59,009,689)	(37,161,524)	(22,400,280)	(12,912,639)	(138,979,058)	138,979,058	-
Net revenue ²	22,170,155	54,158,802	35,603,655	23,149,132	12,451,631	100,719,372	-	100,719,372
Depreciation	275,562	654,722	8,807,062	6,461,034	2,234,898	9,951,595	-	9,951,595
Amortization	37,650	84,444	469,090	393,745	67,103	686,242	-	686,242
Operating profit	1,542,570	8,212,544	5,113,715	5,276,475	(128,014)	14,819,762	-	14,819,762

¹ Includes other amounts not included in specific operating segments.

² Segment net revenue includes intersegment revenues.

(2) For the three months ended June 30, 2016

<i>(In millions of Korean won)</i>	DS						Intercompany elimination within the Group	Consolidated
	CE	IM	Total ¹	Semi- conductor	DP	Total ¹		
Total segment revenue	26,852,692	55,134,263	37,718,103	23,661,694	13,129,953	120,061,157	(69,124,037)	50,937,120
Intercompany revenue	(15,305,843)	(28,575,398)	(19,289,960)	(11,664,503)	(6,713,929)	(69,124,037)	69,124,037	-
Net revenue ²	11,546,849	26,558,865	18,428,143	11,997,191	6,416,024	50,937,120	-	50,937,120
Depreciation	136,471	319,234	1,143,430	3,213,438	1,111,683	4,830,220	-	4,830,220
Amortization	16,757	41,113	39,189	197,143	33,364	339,298	-	339,298
Operating profit	1,029,603	4,318,387	2,786,549	2,644,895	137,205	8,143,950	-	8,143,950

¹ Includes other amounts not included in specific operating segments.

² Segment net revenue includes intersegment revenues.

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(3) For the six months ended June 30, 2015

<i>(In millions of Korean won)</i>	DS						Intercompany elimination within the Group	Consolidated
	CE	IM	Total ¹	Semi-conductor	DP	Total ¹		
Total segment revenue	53,471,874	111,386,553	68,141,206	39,916,557	26,099,344	233,237,135	(137,581,678)	95,655,457
Intercompany revenue	(32,012,021)	(59,444,641)	(33,165,189)	(18,356,758)	(12,626,289)	(137,581,678)	137,581,678	-
Net revenue ²	21,459,853	51,941,912	34,976,017	21,559,799	13,473,055	95,655,457	-	95,655,457
Depreciation	309,165	529,097	8,356,025	6,028,711	2,222,160	9,510,191	-	9,510,191
Amortization	55,485	95,195	359,608	289,092	63,826	614,658	-	614,658
Operating profit	76,181	5,504,698	7,256,490	6,332,510	1,069,046	12,877,304	-	12,877,304

¹ Includes other amounts not included in specific operating segments.

² Segment net revenue includes intersegment revenues.

(4) For the three months ended June 30, 2015

<i>(In millions of Korean won)</i>	DS						Intercompany elimination within the Group	Consolidated
	CE	IM	Total ¹	Semi-conductor	DP	Total ¹		
Total segment revenue	28,019,681	55,659,833	34,559,136	20,610,804	12,951,018	118,212,978	(69,675,439)	48,537,539
Intercompany revenue	(16,816,811)	(29,604,771)	(16,686,815)	(9,317,720)	(6,330,130)	(69,675,439)	69,675,439	-
Net revenue ²	11,202,870	26,055,062	17,872,321	11,293,084	6,620,888	48,537,539	-	48,537,539
Depreciation	151,888	288,526	4,349,306	3,136,878	1,160,596	4,946,806	-	4,946,806
Amortization	28,358	46,933	188,324	152,210	32,745	308,714	-	308,714
Operating profit	212,065	2,761,428	3,868,851	3,399,530	544,324	6,897,937	-	6,897,937

¹ Includes other amounts not included in specific operating segments.

² Segment net revenue includes intersegment revenues.

(B) Regional information

The regional segment information provided to the Management Committee for the reportable segments as of and for the three and six months ended June 30, 2016 and 2015, is as follows:

(1) As of and for the six months ended June 30, 2016

<i>(In millions of Korean won)</i>	2016						Intercompany elimination within the Group	Consolidated
	Korea	America	Europe	Asia and Africa	China			
Net segment revenue	10,388,062	33,497,405	19,230,610	20,706,935	16,896,360	-	100,719,372	
Non-current assets ¹	62,461,306	6,916,874	750,562	8,251,433	12,118,838	(616,253)	89,882,760	

¹ Total of non-current assets other than financial instruments, deferred tax assets, and investments in associates and joint ventures.

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(2) As of and for the three months ended June 30, 2016

<i>(In millions of Korean won)</i>	2016						Intercompany elimination within the Group	Consolidated
	Korea	America	Europe	Asia and Africa	China			
Net segment revenue	5,130,272	17,523,793	9,486,475	10,104,764	8,691,816	-	50,937,120	
Non-current assets ¹	62,461,306	6,916,874	750,562	8,251,433	12,118,838	(616,253)	89,882,760	

¹ Total of non-current assets other than financial instruments, deferred tax assets, and investments in associates and joint ventures.

(3) As of and for the six months ended June 30, 2015

<i>(In millions of Korean won)</i>	2015						Intercompany elimination within the Group	Consolidated
	Korea	America	Europe	Asia and Africa	China			
Net segment revenue	10,418,762	31,307,442	17,878,921	21,293,046	14,757,286	-	95,655,457	
Non-current assets ¹	64,257,624	8,132,021	799,452	6,739,400	10,635,941	(367,767)	90,196,671	

¹ Total of non-current assets other than financial instruments, deferred tax assets, and investments in associates and joint ventures.

(4) As of and for the three months ended June 30, 2015

<i>(In millions of Korean won)</i>	2015						Intercompany elimination within the Group	Consolidated
	Korea	America	Europe	Asia and Africa	China			
Net segment revenue	5,201,990	16,330,143	8,756,938	10,639,647	7,608,821	-	48,537,539	
Non-current assets ¹	64,257,624	8,132,021	799,452	6,739,400	10,635,941	(367,767)	90,196,671	

¹ Total of non-current assets other than financial instruments, deferred tax assets, and investments in associates and joint ventures.

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26. Related Party Transactions

(A) Sale and purchase transactions

Sale and purchase transactions with related parties for the six months ended June 30, 2016 and 2015, are as follows:

<i>(In millions of Korean won)</i>		Name of Company ¹	2016			
			Sales	Disposal of fixed assets	Purchases	Purchase of fixed assets
Associates and Joint ventures		Samsung SDS	₩ 22,667	₩ -	₩ 757,405	₩ 67,852
		Samsung Electro-Mechanics	14,807	-	1,348,148	-
		Others	118,039	36	2,713,638	110,151
		Total (Associates and Joint ventures)	₩ 155,513	₩ 36	₩4,819,191	₩ 178,003
Other related parties		Samsung C&T ²	₩ 10,349	₩ 74	₩ 121,186	₩ 980,716
		Samsung SDI	34,639	-	565,105	7,277
		Others	63,085	90	614,103	209,574
		Total (Other related parties)	₩ 108,073	₩ 164	₩1,300,394	₩1,197,567

¹ Transactions with separate entities that are related parties of the Group.

² During the year ended December 31, 2015, Cheil Industries Inc. merged with Samsung C&T and changed its name to Samsung C&T.

<i>(In millions of Korean won)</i>		Name of Company ¹	2015			
			Sales	Disposal of fixed assets	Purchases	Purchase of fixed assets
Associates and Joint ventures		Samsung SDS	₩ 15,668	₩ -	₩ 806,293	₩ 110,294
		Samsung Electro-Mechanics	6,463	-	1,352,367	-
		Others	167,456	3,525	2,746,078	171,962
		Total (Associates and Joint ventures)	₩189,587	₩ 3,525	₩4,904,738	₩ 282,256
Other related parties		Samsung C&T ²	₩ 2,063	₩ -	₩ 29,224	₩ 283,561
		Samsung SDI	23,153	-	774,261	9,790
		Others	56,428	-	483,543	136,189
		Total (Other related parties)	₩ 81,644	₩ -	₩1,287,028	₩ 429,540

¹ Transactions with separate entities that are related parties of the Group

² During the year ended December 31, 2015, Cheil Industries Inc. merged with Samsung C&T and changed its name to Samsung C&T.

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(B) Balances of receivables and payables

Balances of receivables and payables arising from sales and purchases of goods and services as of June 30, 2016 and December 31, 2015, are as follows:

<i>(In millions of Korean won)</i>	Name of Company ¹	June 30, 2016			
		Receivables		Payables	
	Samsung SDS	₩	4,344	₩	269,238
Associates and Joint ventures	Samsung Electro-Mechanics		200		270,246
	Others		70,446		462,283
	Total (Associates and Joint ventures)	₩	74,990	₩	1,001,767
	Samsung C&T ²	₩	219,370	₩	646,041
Other related parties	Samsung SDI		87,419		80,240
	Others		22,430		138,962
	Total (Other related parties)	₩	329,219	₩	865,243

¹ Balances due from and to separate entities that are related parties of the Group.

² During the year ended December 31, 2015, Cheil Industries Inc. merged with Samsung C&T and changed its name to Samsung C&T.

<i>(In millions of Korean won)</i>	Name of Company ¹	December 31, 2015			
		Receivables		Payables	
	Samsung SDS	₩	3,578	₩	311,648
Associates and Joint ventures	Samsung Electro-Mechanics		608		216,869
	Others		66,033		1,722,515
	Total (Associates and Joint ventures)	₩	70,219	₩	2,251,032
	Samsung C&T ²	₩	208,576	₩	1,430,098
Other related parties	Samsung SDI		90,221		106,507
	Others		19,456		161,048
	Total (Other related parties)	₩	318,253	₩	1,697,653

¹ Balances due from and to separate entities that are related parties of the Group.

² During the year ended December 31, 2015, Cheil Industries Inc. merged with Samsung C&T and changed its name to Samsung C&T.

(C) During the six months ended June 30, 2016, the Group invested ₩24,104 million in associates and joint ventures including Samsung Biologics(₩14,804 million). During the six months ended June 30, 2015, the Group invested ₩68,348 million in associates and joint ventures.

(D) Key management compensation

Key management includes directors (executive and non-executive) and members of the Executive Committee. The compensation paid or payable for employee services for the six months ended June 30, 2016 and 2015 consists of:

<i>(In millions of Korean won)</i>	2016		2015	
Salaries and other short-term employee benefits	₩	4,290	₩	4,189
Termination benefits		320		280
Other long-term benefits		4,158		4,158

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27. Business Combination

Significant business combinations for the six months ended June 30, 2016 are as follow:

Samsung Electronics America, the Group's subsidiary, acquired 100% of the equity shares of Joyent on June 24, 2016.

(A) Overview of the acquired company

Name of the acquired company	Joyent, Inc.
Headquarters location	San Francisco, CA, USA
Representative director	Scott Hammond
Industry	Cloud services

(B) Purchase price allocation

<i>(In millions of Korean Won)</i>	Amount
I. Consideration transferred	₩ 185,343
II. Identifiable assets and liabilities	
Cash and cash equivalents	1,556
Short-term financial instruments	116
Trade and other receivables	3,646
Property, plant and equipment	5,625
Intangible assets	22,208
Other assets	24,582
Trade and other payables	(10,979)
Total net identifiable assets	46,754
III. Goodwill (I – II)	₩ 138,589

Had Joyent been consolidated from January 1, 2016, revenues would have increased by ₩9,721 million and net income would have decreased by ₩5,386 million on the interim consolidated statement of income.

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28. Non-current Assets Held-for-Sale (Assets of disposal group)

(A) Summary

- Sale of Samsung Fine Chemicals

During the year ended December 2015, the Group entered into an agreement with Lotte Chemical to sell all of its shares in Samsung Fine Chemicals. The transaction was completed in February 2016.

(B) Details of assets and liabilities reclassified as held-for-sale, as of June 30, 2016 and December 31, 2015 are as follows:

<i>(In millions of Korean won)</i>	June 30, 2016		December 31, 2015	
Assets held-for-sale				
Investment	₩	-	₩	77,073
Total	₩	-	₩	77,073

(C) Details of cumulative income or expense recognized in other comprehensive income relating to the disposal group classified as held-for-sale as of June 30, 2016 and December 31, 2015 are as follows:

<i>(In millions of Korean won)</i>	June 30, 2016		December 31, 2015	
Gain on valuation of available-for-sale securities	₩	-	₩	23,797
Total	₩	-	₩	23,797

29. Events after the Reporting Period

In July 2016, the Company retired 1.62 million shares (common stock 1.30 million, preferred stock 0.32 million), which were repurchased at cost of ₩2,131,938 million from April 29, 2016 to July 12, 2016.