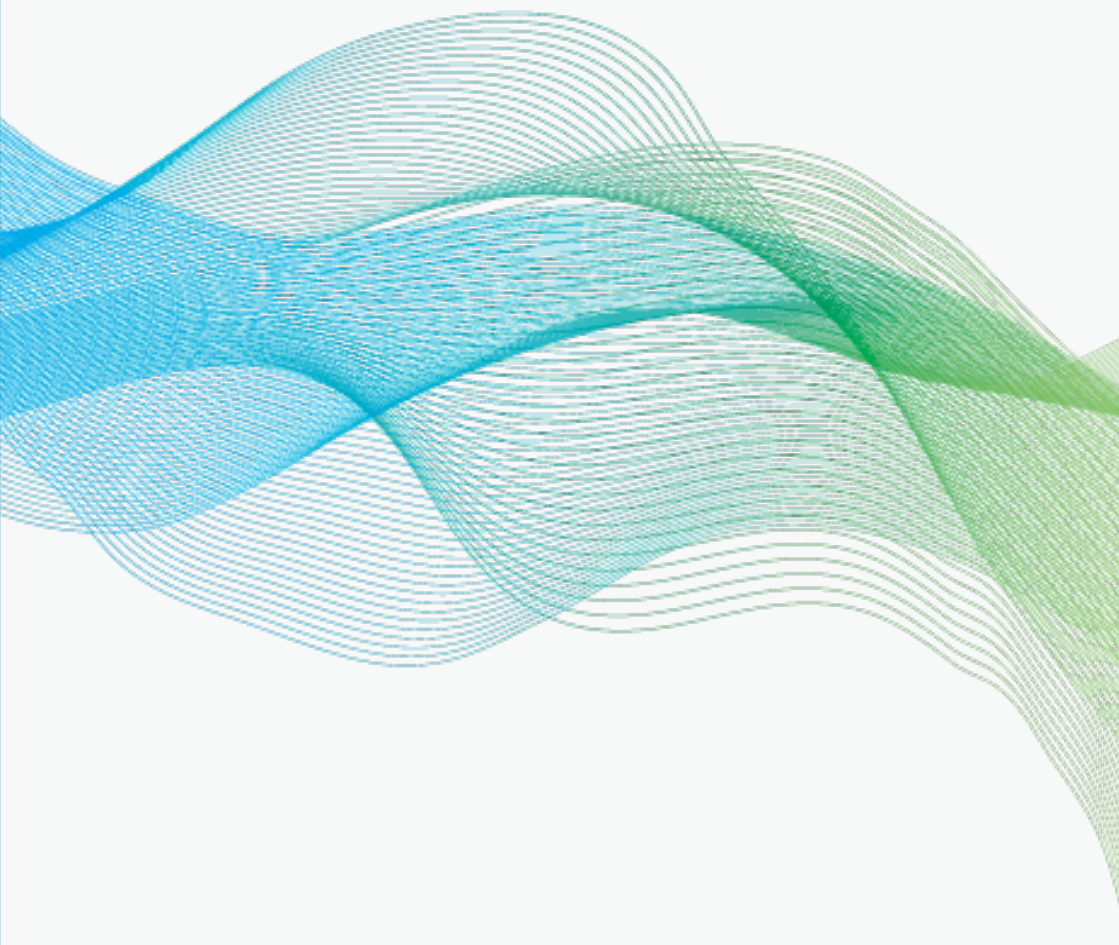


2014 Trilateral Statistics

中日韩三国统计册 · 日中韓三国統計集 · 한중일3국통계집



2014 Trilateral Statistics

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Foreword



I am pleased to present the 2014 Trilateral Statistics, a selection of the most important and interesting statistics in the People's Republic of China, Japan and the Republic of Korea. When you are looking for the key facts and figures on current and emerging trends of economic, social and environmental development in the three countries, you will find this publication useful.

Since its establishment in 2011, the Trilateral Cooperation Secretariat (TCS) has been mandated to promote a better understanding of trilateral cooperation. Currently, there are 19 ministerial meetings and over 60 inter-governmental mechanisms among the three countries in various areas. From the intuitive charts and figures, you will realize how close the three countries are connected to each other.

I hope that the 2014 Trilateral Statistics will provide information of interest both for your work and your daily life, and give guidance for understanding the dynamic and close relations among the three countries as well.

A handwritten signature in black ink, appearing to read 'Shigeo Iwatani', written in a cursive style.

IWATANI Shigeo
Secretary-General
Trilateral Cooperation Secretariat

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Quick Look

1

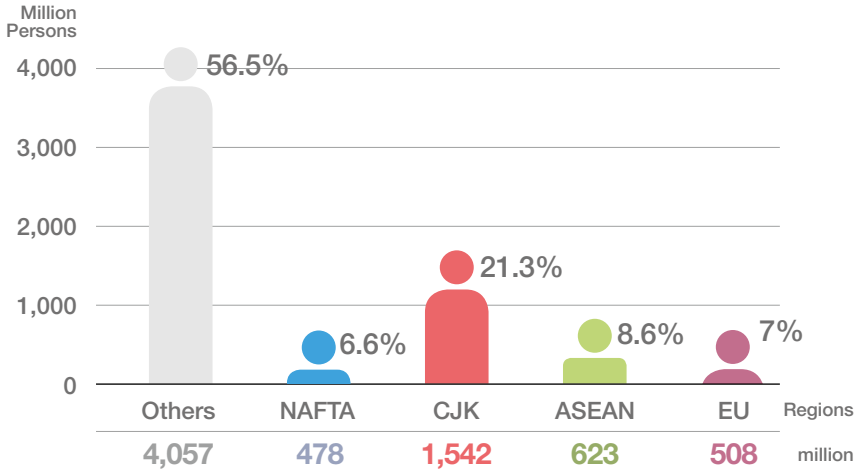
1-1. 2014 at a Glance

1-2. Regional Economies (2014)



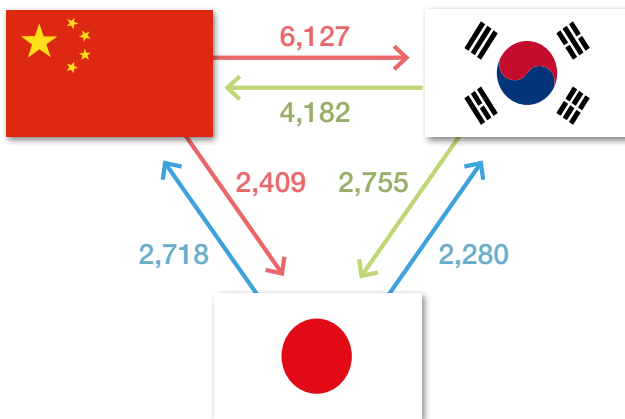
Population in 2014

(% of World Population)



Tourist Arrivals in 2014

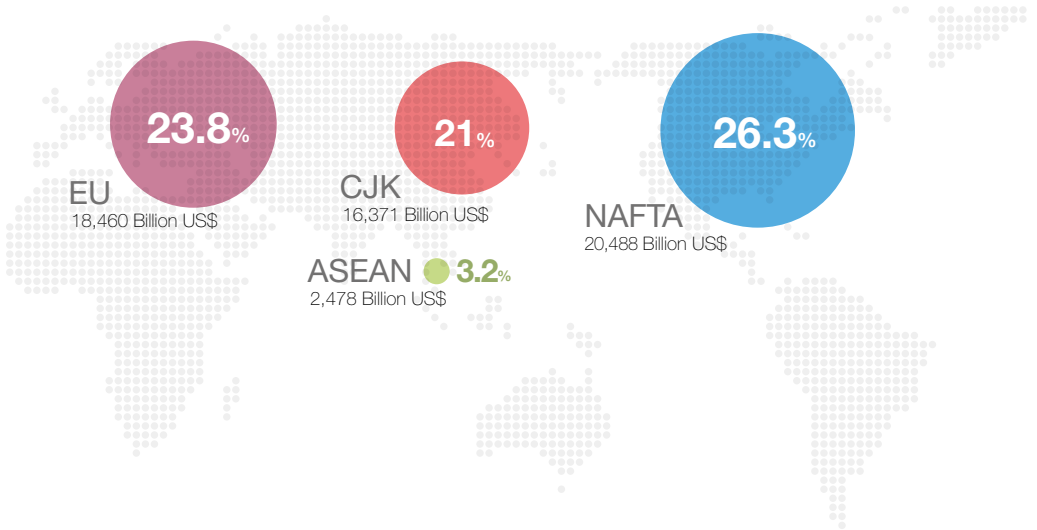
(Thousand Persons)





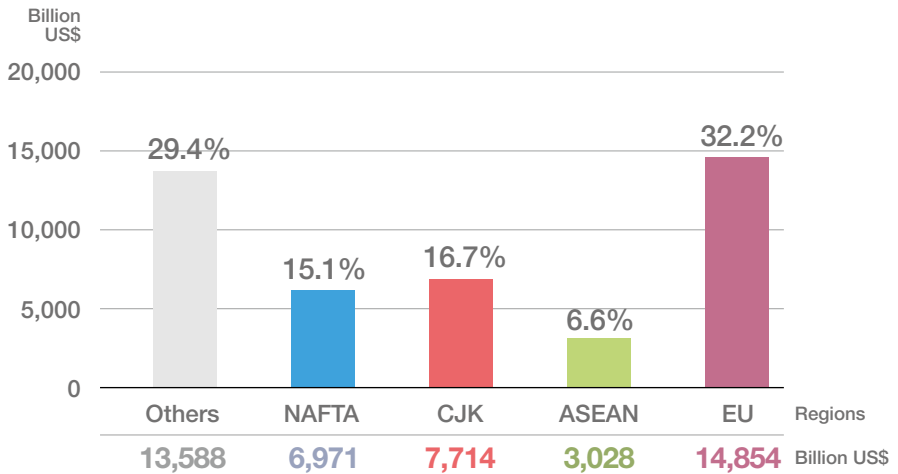
Gross Domestic Product in 2014

(% of World GDP)



Trade Volumes in 2013

(% of World Trade)



1-1 2014 at a Glance

	China	Japan	ROK	Total
Land Area	9,388,211	364,560	97,350	9,850,121
Square Km (%)	7.2	0.3	0.1	7.6
Population	1,364	127	50	1,542
Million persons				
GDP	10,360	4,601	1,410	16,371
Billion US\$ (%)	13.3	5.9	1.8	21.0
GDP per Capita	7,594	36,194	27,970	-
US\$				
GDP Growth Rate	7.4	-0.1	3.3	-
%				
Inflation Rate (CPI)	2.0	2.7	1.3	-
%				
Unemployment Rate	4.09	3.6	3.5	-
%				
Exports	2,342.75	683.85	572.67	3,599.27
Billion US\$				
Imports	1,960.29	822.25	525.52	3,308.06
Billion US\$				
Trade Volumes	11.4	4.0	2.9	18.3
(%)				
Export	12.37	3.61	3.02	19.00
(%)				
Import	10.36	4.35	2.78	17.49
(%)				
Current Account Balance	209.82	24.28	89.22	323.32
Billion US\$				
Foreign Exchange Reserves	3,900.0	1,260.7	362.8	5,523.5
Billion US\$				
FDI Stocks Inward (2013)	956,793	170,929	167,350	1,295,072
Million US\$				
FDI Stocks Outward (2013)	613,585	992,901	219,050	1,825,536
Million US\$				
Number of inbound travelers	26,361	13,414	14,202	53,977
Thousand Persons				

* Total =China+Japan+ROK

** (%)=Percentage of World

Source

World Bank, International Monetary Fund (IMF), UNCTAD, Chinese National Tourism Administration, Japan National Tourism Organization, Korea Tourism Organization

1-2 Regional Economies (2014)

	Nominal GDP ** Billion US\$ (%)	Population Million persons (%)	Exports (2013)*** Billion US\$	Imports (2013)*** Billion US\$	% of World Trade (2013)
China+ Japan+ ROK	16,371 (21.0)	1,542 (21.3)	3,939	3,775	16.7
ASEAN	2478 (3.2)	623 (8.6)	1,561	1,467	6.6
ASEAN+3	18849 (24.2)	2,165 (29.9)	5,500	5,242	23.3
APEC (2013)*	42,770	2,806	10,425	10,606	-
BRICS¹	16,984 (21.8)	3,032 (42.1)	3,893	3,665	16.4
EU	18,460 (23.8)	508 (7.0)	7,667	7,187	32.2
GCC²	1,651 (2.1)	50 (0.7)	910	588	3.2
MERCOSUR³	3,485 (4.4)	285 (4.0)	398	456	1.9
NAFTA	20,488 (26.3)	478 (6.6)	3,212	3,759	15.1
World	77,869	7,208	23,432	22,723	100

* The data of APEC were sourced from StatsAPEC

** GDP of New Zealand and Papua New Guinea used 2013 date and GCC GDP used data in 2013 for Kuwait.

*** It does not include Myanmar's, Papua New Guinea's, Bahrain's, Oman's, Qatar's and Venezuela's data.

1. BRICS: Brazil, Russia, India, China, South Africa

2. GCC(Gulf Cooperation Council): Bahrain, Kuwait, Oman, Qatar, Saudi Arabia, United Arab Emirates

3. MERCOSUR(Southern Common Market): Argentina, Brazil, Paraguay, Uruguay, Venezuela

Source	World Bank
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Trilateral
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Basic Indicators



- 2-1.** Gross Domestic Product (GDP)
- 2-2.** GDP Growth Rate
- 2-3.** GDP per Capita
- 2-4.** CPI(Consumer Prices Index)
- 2-5.** Foreign Exchange Reserves
- 2-6.** Balance of Payment

2-1 Gross Domestic Product (GDP)

Unit: Billion US \$ (% of World GDP)

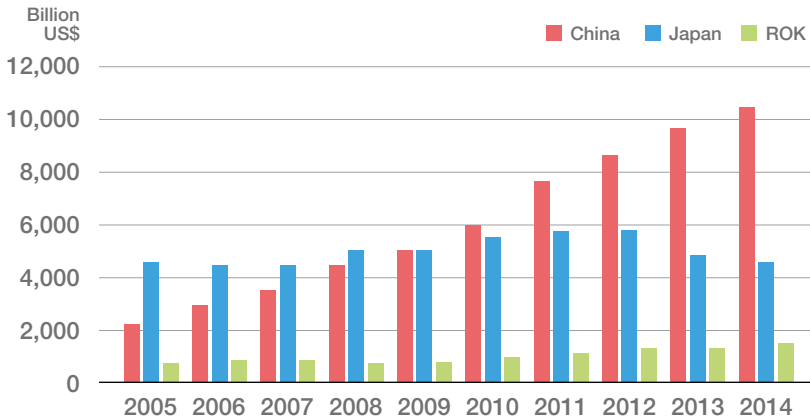
	World	China	Japan	ROK
2005	47,034	2,269 (4.8)	4,572 (9.7)	898 (1.9)
2006	50,971	2,730 (5.4)	4,357 (8.6)	1,012 (2.0)
2007	57,452	3,523 (6.1)	4,356 (7.6)	1,123 (2.0)
2008	62,983	4,558 (7.2)	4,849 (7.7)	1,002 (1.6)
2009	59,705	5,059 (8.5)	5,035 (8.4)	902 (1.5)
2010	65,489	6,040 (9.2)	5,495 (8.1)	1,094 (1.7)
2011	72,572	7,492 (10.3)	5,906 (8.2)	1,202 (1.7)
2012	74,042	8,462 (11.4)	5,954 (8.0)	1,223 (1.7)
2013	76,124	9,491 (12.5)	4,920 (6.5)	1,305 (1.7)
2014	77,869	10,360 (13.3)	4,601 (5.9)	1,410 (1.8)

*At current prices

** GDP at purchaser's prices is the sum of gross value added by all resident producers in the economy plus any product taxes and minus any subsidies not included in the value of the products. It is calculated without making deductions for depreciation of fabricated assets or for depletion and degradation of natural resources. Data are in current U.S. dollars. Dollar figures for GDP are converted from domestic currencies using single year official exchange rates.

Source World Bank

Gross Domestic Product (GDP)

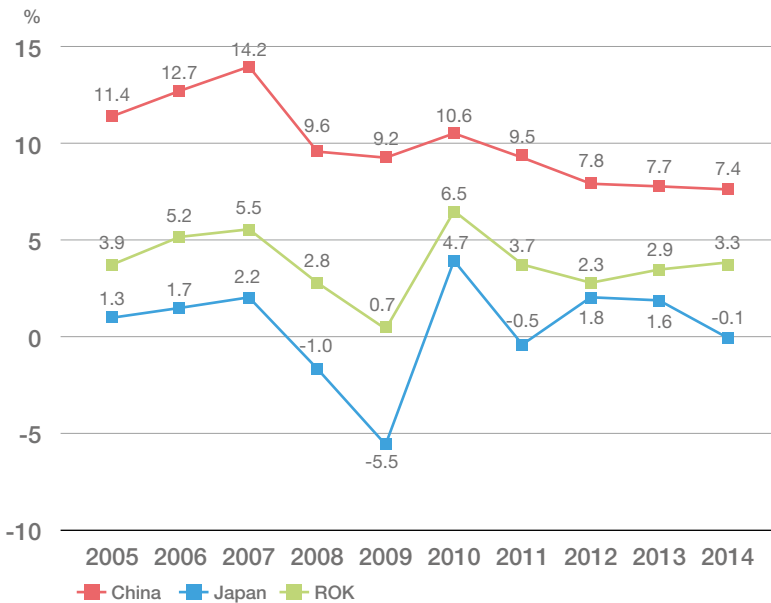


2-2 GDP Growth Rate

Unit: %

	China	Japan	ROK
2005	11.4	1.3	3.9
2006	12.7	1.7	5.2
2007	14.2	2.2	5.5
2008	9.6	-1.0	2.8
2009	9.2	-5.5	0.7
2010	10.6	4.7	6.5
2011	9.5	-0.5	3.7
2012	7.8	1.8	2.3
2013	7.7	1.6	2.9
2014	7.4	-0.1	3.3
Source	World Bank		

GDP Growth Rate



2-3 GDP per Capita

Unit: US \$

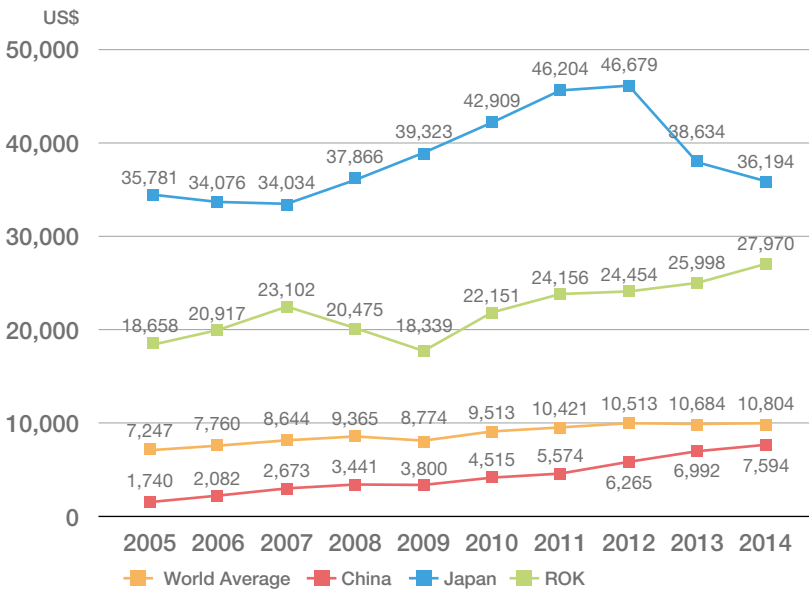
	World Average	China	Japan	ROK
2005	7,247	1,740	35,781	18,658
2006	7,760	2,082	34,076	20,917
2007	8,644	2,673	34,034	23,102
2008	9,365	3,441	37,866	20,475
2009	8,774	3,800	39,323	18,339
2010	9,513	4,515	42,909	22,151
2011	10,421	5,574	46,204	24,156
2012	10,513	6,265	46,679	24,454
2013	10,684	6,992	38,634	25,998
2014	10,804	7,594	36,194	27,970

* At current prices

** GDP per capita is gross domestic product divided by midyear population.

Source World Bank

GDP per Capita



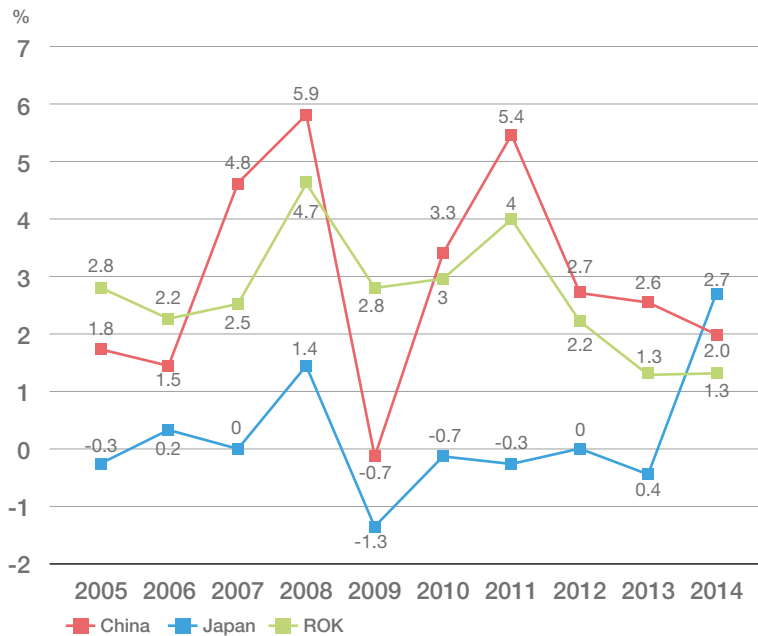
2-4 Consumer Prices Index

Unit: %

	CPI (Consumer Prices Index)		
	China	Japan	ROK
2005	1.8	-0.3	2.8
2006	1.5	0.2	2.2
2007	4.8	0	2.5
2008	5.9	1.4	4.7
2009	-0.7	-1.3	2.8
2010	3.3	-0.7	3
2011	5.4	-0.3	4
2012	2.7	0	2.2
2013	2.6	0.4	1.3
2014	2.0	2.7	1.3

Source International Monetary Fund (IMF)

Consumer Prices Index (CPI)



2-5 Foreign Exchange Reserves

Unit: Billion US \$ (Ranking)

	China		Japan		ROK	
2005	831.4	2	846.9	1	210.6	3
2006	1,080.8	1	895.3	2	239.1	4
2007	1,546.4	1	973.3	2	262.5	7
2008	1,966.0	1	1,030.8	2	201.5	7
2009	2,452.9	1	1,049.0	2	270.4	7
2010	2,913.7	1	1,096.1	2	292.1	7
2011	3,254.7	1	1,295.8	2	306.9	8
2012	3,387.5	1	1,268.1	2	327.7	8
2013	3,880.4	1	1,266.9	2	345.7	8

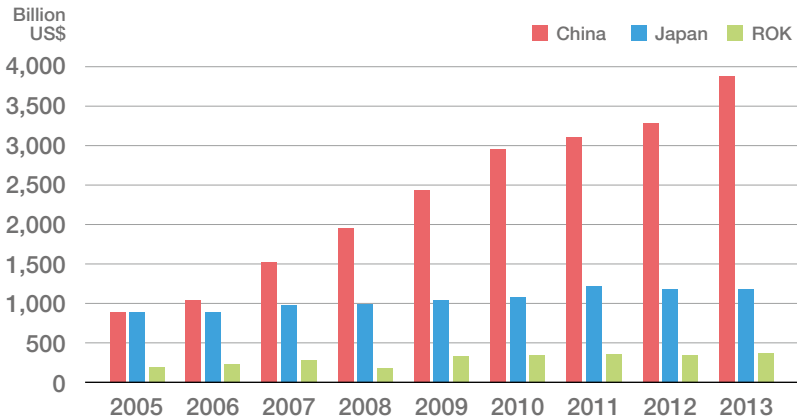
*At current prices

** Data refer to international reserves with gold at national valuation unless otherwise specified.

Source	World Bank
--------	------------

Notes: There is no update of 2014 data in World Bank yet. According to Statistics Bureau of China, Ministry of Finance of Japan and Bank of Korea, the FX reserves of 2014 in each country is China (3,843), Japan (1,199.65) and ROK (363.59).

Foreign Exchange Reserves



2-6 Balance of Payment

Unit: Million US\$ (% of GDP)

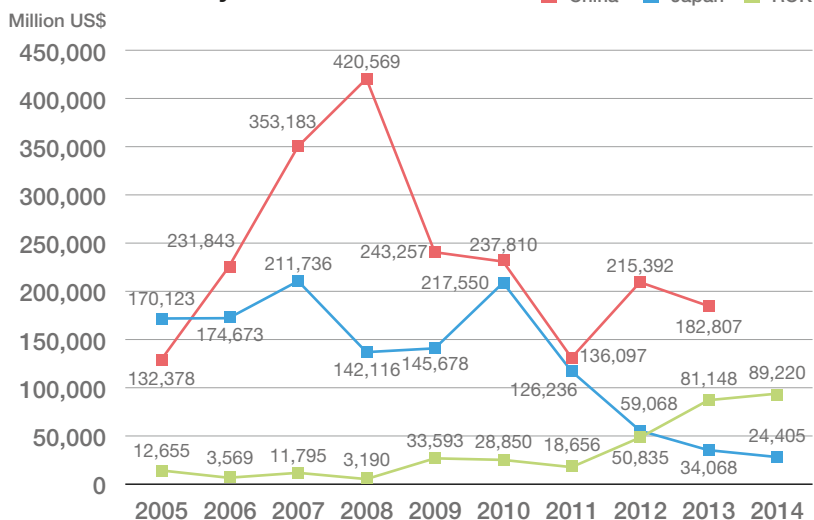
Current Account Balance (BoP) and % of GDP			
	China	Japan	ROK
2005	132,378 (5.9)	170,123 (3.7)	12,655 (1.4)
2006	231,843 (8.5)	174,673 (4.0)	3,569 (0.4)
2007	353,183 (10.1)	211,736 (4.9)	11,795 (1.1)
2008	420,569 (9.3)	142,116 (2.9)	3,190 (0.3)
2009	243,257 (4.9)	145,678 (2.9)	33,593 (3.7)
2010	237,810 (4.0)	217,550 (4.0)	28,850 (2.6)
2011	136,097 (1.9)	126,236 (2.1)	18,656 (1.6)
2012	215,392 (2.6)	59,068 (1.0)	50,835 (4.2)
2013	182,807 (2.0)	34,068 (0.7)	81,148 (6.2)
2014	-	24,405 (0.5)	89,220 (6.3)

*At current prices

** Current account is the sum of the balance of trade (i.e., earnings on exports of goods and services minus payments for imports of goods and services), net factor income (earnings on foreign investments minus payments made to foreign investors) and net cash transfers.

Source World Bank

Balance of Payment





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Population

3

- 3-1.** Total Population
- 3-2.** Annual Growth Rate of Population
- 3-3.** Population Density
- 3-4.** Population in Urban and Rural Areas
- 3-5.** Population Distribution by Age Group
- 3-6.** Age Dependency Ratio
- 3-7.** Population Estimates

3-1 Total Population

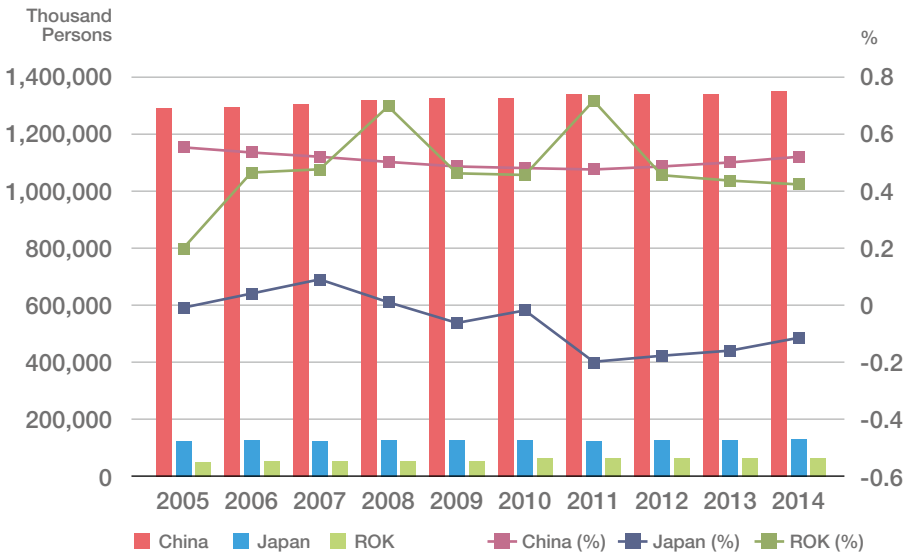
Unit: Thousand Persons (% of World Population)

	World	China	Japan	ROK	Others
2005	6,489,887	1,303,720 20.09	127,773 1.97	48,138 0.74	5,011,110 77.21
2006	6,567,781	1,311,020 19.96	127,854 1.95	48,372 0.74	5,081,494 77.37
2007	6,645,687	1,317,885 19.83	128,001 1.93	48,598 0.73	5,152,655 77.53
2008	6,724,771	1,324,655 19.70	128,063 1.90	48,949 0.73	5,224,746 77.69
2009	6,804,046	1,331,260 19.57	128,047 1.88	49,182 0.72	5,297,251 77.85
2010	6,884,008	1,337,705 19.43	128,070 1.86	49,410 0.72	5,370,653 78.02
2011	6,964,618	1,344,130 19.30	127,817 1.84	49,779 0.71	5,444,219 78.17
2012	7,043,181	1,350,695 19.18	127,561 1.81	50,004 0.71	5,518,109 78.35
2013	7,125,097	1,357,380 19.05	127,339 1.79	50,220 0.70	5,590,158 78.46
2014	7,207,735	1,364,270 18.93	127,132 1.76	50,424 0.70	5,665,909 78.61

* Others=World-(China+Japan+ROK)

Source World Bank

Total Population and Growth Rate



3-2

Growth Rate of Population

Unit: %

	China	Japan	ROK
2005	0.59	0.01	0.21
2006	0.56	0.06	0.48
2007	0.52	0.11	0.47
2008	0.51	0.05	0.72
2009	0.50	-0.01	0.48
2010	0.48	0.02	0.46
2011	0.48	-0.20	0.74
2012	0.49	-0.20	0.45
2013	0.49	-0.17	0.43
2014	0.51	-0.16	0.41

* Population growth (annual %) is the exponential rate of growth of midyear population from year t-1 to t, expressed as a percentage.

Source

World Bank

3-3 Population Density

Unit: Persons Per Square km of Land Area

	China	Japan	ROK
2005	138.9	350.5	497.0
2006	139.6	350.8	499.3
2007	140.4	351.2	501.4
2008	141.1	351.3	504.5
2009	141.8	351.3	506.5
2010	142.5	351.3	508.2
2011	143.2	350.6	512.0
2012	143.9	349.9	513.7
2013	144.6	349.3	515.9
2014	145.3	348.7	518.0
Source	World Bank		

Population Density

Persons Per Square
km of Land Area

■ China ■ Japan ■ ROK



Population in Urban and Rural Areas

Unit: Thousand Persons

Number of Population						
	China		Japan		ROK	
	Urban	Rural	Urban	Rural	Urban	Rural
1970	142,387	675,928	75,000	29,345	13,123	19,118
1980	189,947	791,288	88,959	27,823	21,624	16,500
1990	300,166	835,019	95,542	27,995	31,656	11,213
2000	452,999	809,646	99,761	27,082	37,428	9,580
2010	658,499	679,206	115,932	12,138	40,485	8,925
2011	679,767	664,363	116,631	11,187	40,838	8,942
2012	700,862	649,833	117,232	10,330	41,074	8,930
2013	721,692	635,688	117,777	9,562	41,305	8,914
2014	742,299	621,971	118,259	8,873	41,529	8,895

* Urban population refers to people living in urban areas as defined by national statistical offices. It is calculated using World Bank population estimates and urban ratios from the United Nations World Urbanization Prospects.

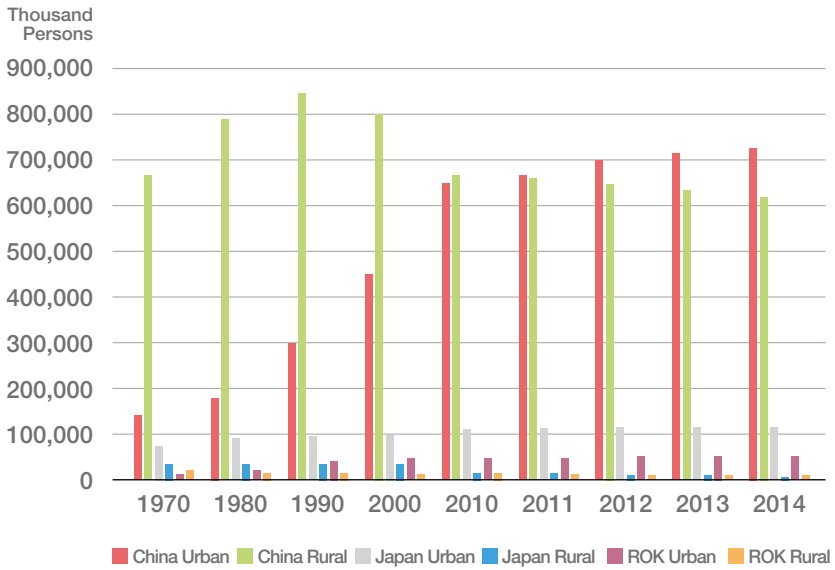
** Rural population refers to people living in rural areas as defined by national statistical offices. It is calculated as the difference between total population and urban population.

Unit: % of Total Population (% of growth)

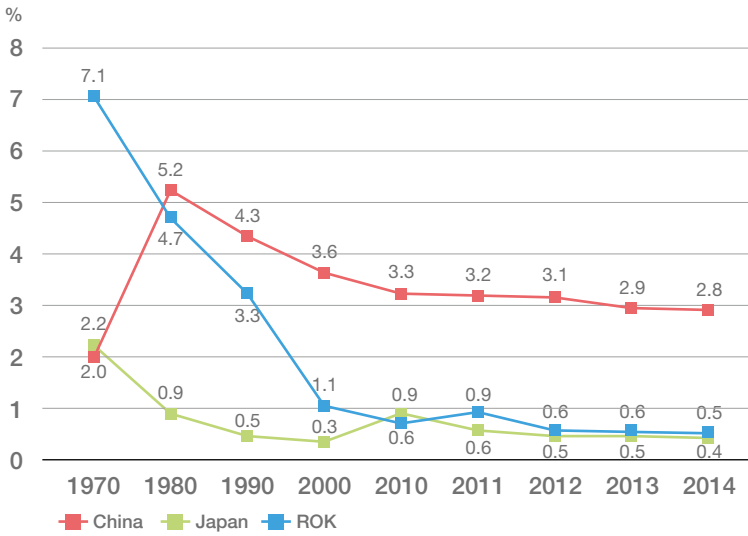
% of Total Population (Growth Rate)						
	China		Japan		ROK	
	Urban	Rural	Urban	Rural	Urban	Rural
1970	17.4 (2.0)	82.6 (2.9)	71.9 (2.2)	28.1 (-1.6)	40.7 (7.1)	59.3 (-1.0)
1980	19.4 (5.2)	80.6 (0.3)	76.2 (0.9)	23.8 (0.5)	56.7 (4.7)	43.3 (-2.4)
1990	26.4 (4.3)	73.6 (0.5)	77.3 (0.5)	22.7 (-0.2)	73.8 (3.3)	26.2 (-5.3)
2000	35.9 (3.6)	64.1 (-0.8)	78.6 (0.3)	21.4 (-0.4)	79.6 (1.1)	20.4 (-0.3)
2010	49.2 (3.3)	50.8 (-2.1)	90.5 (0.9)	9.5 (-7.9)	81.9 (0.6)	18.1 (-0.1)
2011	50.6 (3.2)	49.4 (-2.2)	91.2 (0.6)	8.8 (-8.2)	82.0 (0.9)	18.0 (0.2)
2012	51.9 (3.1)	48.1 (-2.2)	91.9 (0.5)	8.1 (-8.0)	82.1 (0.6)	17.9 (-0.1)
2013	53.2 (2.9)	46.8 (-2.2)	92.5 (0.5)	7.5 (-7.7)	82.2 (0.6)	17.8 (-0.2)
2014	54.4 (2.8)	45.6 (-2.2)	93.0 (0.4)	7.0 (-7.5)	82.4 (0.5)	17.6 (-0.2)

Source World Bank

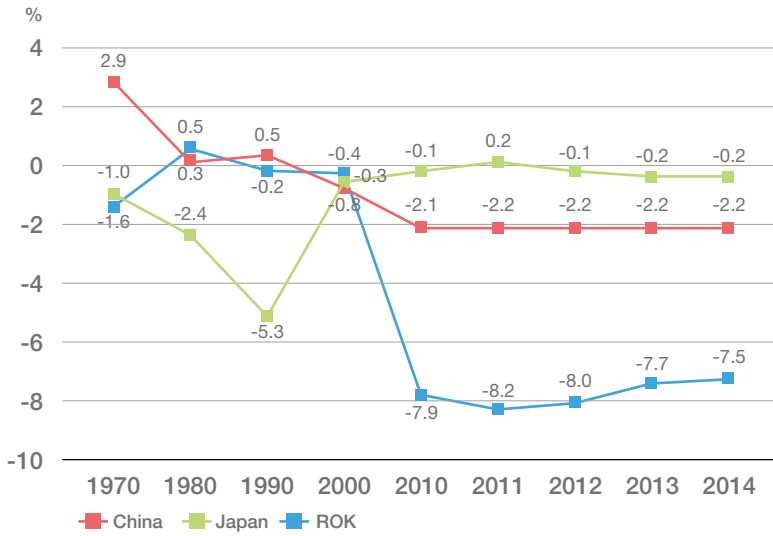
Population in Urban and Rural Areas



Urban Population Growth Rate



Rural Population Growth Rate



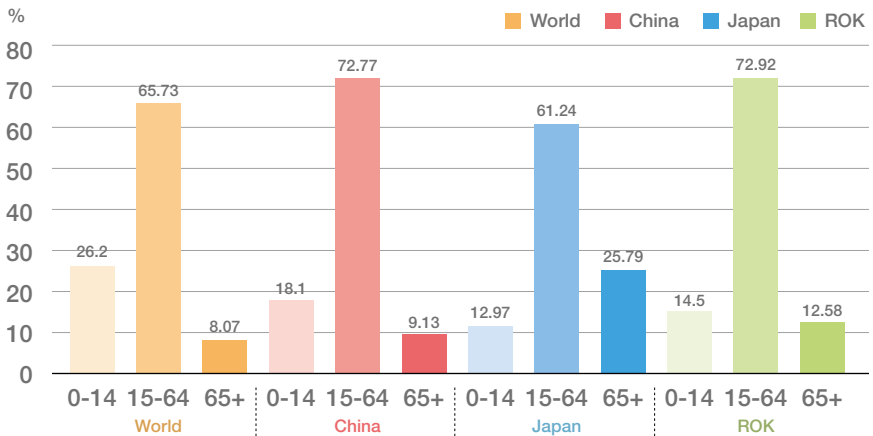
3-5 Population Distribution by Age Group

Unit: %

Age Group	World			China			Japan			ROK		
	0-14	15-64	65+	0-14	15-64	65+	0-14	15-64	65+	0-14	15-64	65+
2005	28.02	64.66	7.31	20.51	71.82	7.67	13.8	66.35	19.85	19.1	71.62	9.29
2006	27.68	64.94	7.38	19.76	72.43	7.81	13.68	65.89	20.42	18.58	71.76	9.66
2007	27.38	65.17	7.45	19.17	72.89	7.94	13.57	65.41	21.02	18	71.98	10.02
2008	27.13	65.37	7.51	18.71	73.22	8.07	13.47	64.89	21.64	17.4	72.23	10.37
2009	26.9	65.52	7.58	18.38	73.42	8.2	13.38	64.34	22.29	16.8	72.48	10.72
2010	26.71	65.64	7.65	18.14	73.51	8.35	13.29	63.75	22.96	16.24	72.68	11.08
2011	26.55	65.72	7.74	18.01	73.48	8.51	13.2	63.13	23.67	15.73	72.83	11.44
2012	26.42	65.76	7.83	17.98	73.34	8.68	13.11	62.49	24.4	15.25	72.94	11.81
2013	26.31	65.75	7.94	18.03	73.09	8.88	13.05	61.87	25.08	14.89	72.94	12.17
2014	26.20	65.73	8.07	18.10	72.77	9.13	12.97	61.24	25.79	14.50	72.92	12.58

Source World Bank

Population Distribution by Age Group (2014)



Age Dependency Ratio

Unit: %

Age Group	World			China			Japan			ROK		
	Total	Old	Young	Total	Old	Young	Total	Old	Young	Total	Old	Young
2005	56.2	11.3	43.3	39.2	10.7	28.6	50.7	29.9	20.8	39.6	13	26.7
2006	55.6	11.4	42.6	38.1	10.8	27.3	51.8	31	20.8	39.3	13.5	25.9
2007	55	11.4	42	37.2	10.9	26.3	52.9	32.1	20.8	38.9	14.4	25
2008	54.6	11.5	41.5	36.6	11	25.6	54.1	33.4	20.8	38.4	14.8	24.1
2009	54.2	11.6	41.1	36.2	11.2	25	55.4	34.6	20.8	38	15.2	23.2
2010	54	11.7	40.7	36	11.4	24.7	56.9	36	20.8	37.6	15.7	22.3
2011	53.7	11.8	40.4	36.1	11.6	24.5	58.4	37.5	20.9	37.3	15.7	21.6
2012	53.6	11.9	40.2	36.4	11.8	24.5	60	39	21	37.1	16.2	20.9
2013	53.6	12.1	40.0	36.8	12.1	24.7	61.6	40.5	21.1	37.1	16.7	20.4
2014	53.6	12.3	39.9	37.4	12.5	24.9	63.3	42.1	21.2	37.1	17.2	19.9

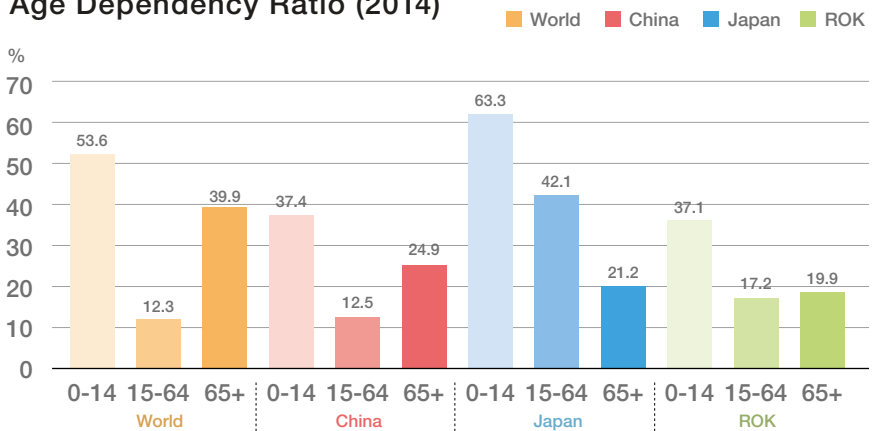
* Age dependency ratio is the ratio of dependents (people younger than 15 or older than 64) to the working-age population, those ages 15-64. Data are shown as the proportion of dependents per 100 working-age population. $\{(Younger\ than\ 15\ or\ Older\ than\ 64)/Working\ population,\ ages\ 15-64\} * 100$

** Age dependency ratio, old, is the ratio of older dependents--people older than 64 (to the working-age population) to those ages 15-64. $\{Older\ than\ 64/Working\ population,\ ages\ 15-64\} * 100$

*** Age dependency ratio, young, is the ratio of younger dependent (people younger than 15) to the working-age population--those ages 15-64. $\{Younger\ than\ 15/Working\ population,\ ages\ 15-64\} * 100$

Source World Bank

Age Dependency Ratio (2014)



3-7 Population Estimates

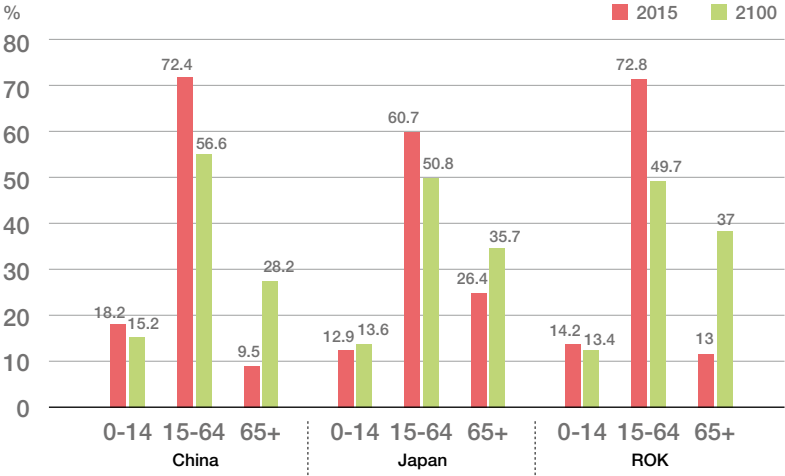
Unit: Thousand Persons

Future Total Population									
	China			Japan			ROK		
2015	1,401,587			126,818			49,750		
2020	1,432,868			125,382			50,769		
2030	1,453,297			120,625			52,190		
2040	1,435,499			114,517			52,270		
2050	1,384,977			108,329			51,034		
2060	1,313,300			102,507			48,959		
2070	1,240,621			96,464			46,509		
2080	1,173,048			91,260			44,126		
2090	1,123,491			87,478			42,140		
2100	1,085,631			84,471			40,548		

Future Population Distribution by Age Group									
	China			Japan			ROK		
	0-14	15-64	65+	0-14	15-64	65+	0-14	15-64	65+
2015	18.2	72.4	9.5	12.9	60.7	26.4	14.2	72.8	13.0
2020	18.2	70.1	11.7	12.6	58.8	28.6	13.8	70.7	15.5
2030	15.9	68.0	16.2	12.2	57.1	30.7	13.6	63.0	23.4
2040	14.6	63.4	22.1	12.2	53.3	34.5	12.6	56.8	30.5
2050	14.7	61.3	23.9	12.5	50.9	36.5	12.0	53.1	34.9
2060	14.6	57.3	28.1	12.8	50.4	36.9	12.5	50.4	37.0
2070	14.6	58.4	27.0	13.0	50.7	36.3	12.9	49.6	37.5
2080	15.0	57.5	27.5	13.4	50.9	35.6	12.9	50.7	36.5
2090	15.2	56.6	28.1	13.6	50.9	35.5	13.1	50.4	36.5
2100	15.2	56.6	28.2	13.6	50.8	35.7	13.4	49.7	37.0

Source	World Population Prospects: The 2012 Revision, UN Department of Economic and Social Affairs Population Division (2013)
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Future Population Distribution by Age Group





Trilateral
Cooperation
Secretariat

Social Welfare

4

- 4-1.** Total Fertility Rate
- 4-2.** Aging Index
- 4-3.** Average Life Expectancy
- 4-4.** School Enrollment
- 4-5.** Employment and Unemployment
- 4-6.** Unemployment Rate

4-1 Total Fertility Rate

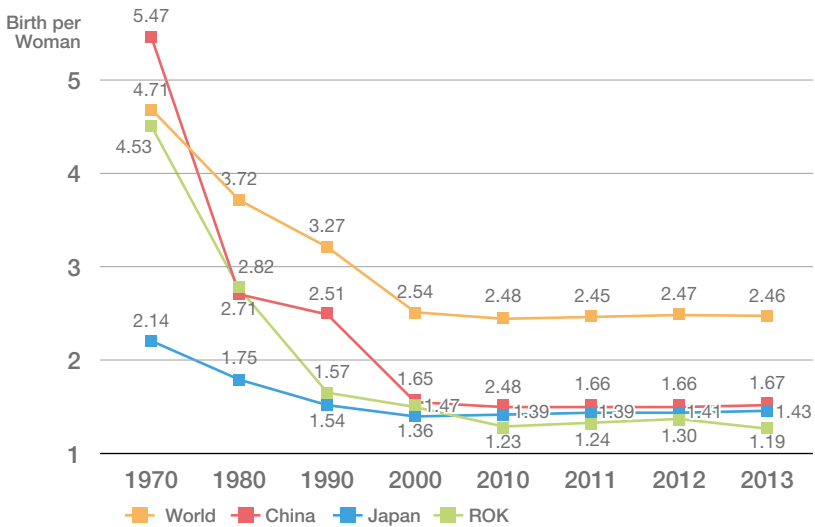
Unit: Birth per Woman

	World	China	Japan	ROK
1970	4.71	5.47	2.14	4.53
1980	3.72	2.71	1.75	2.82
1990	3.27	2.51	1.54	1.57
2000	2.54	1.65	1.36	1.47
2010	2.48	1.65	1.39	1.23
2011	2.45	1.66	1.39	1.24
2012	2.47	1.66	1.41	1.30
2013	2.46	1.67	1.43	1.19

* Total fertility rate represents the number of children that would be born to a woman if she were to live to the end of her childbearing years and bear children in accordance with current age-specific fertility rates.

Source World Bank

Total Fertility Rate



4-2

Aging Index

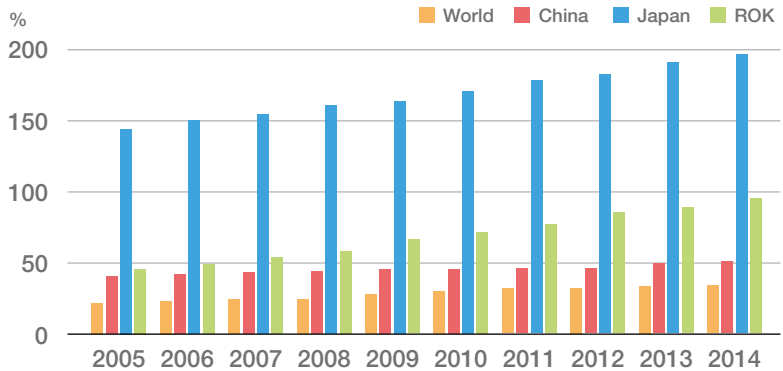
Unit: %

	World	China	Japan	ROK
2005	26.1	37.4	143.8	48.6
2006	26.7	39.5	149.3	52.0
2007	27.2	41.4	154.9	55.7
2008	27.7	43.1	160.6	59.6
2009	28.2	44.6	166.6	63.8
2010	28.6	46.0	172.8	68.2
2011	29.1	47.2	179.3	72.7
2012	29.6	48.3	186.1	77.4
2013	30.2	49.2	192.1	81.7
2014	30.8	50.4	198.9	86.7

* Aging Index = (65 and above/0~14 Age)*100

Source	World Bank
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Aging Index



4-3 Average Life Expectancy

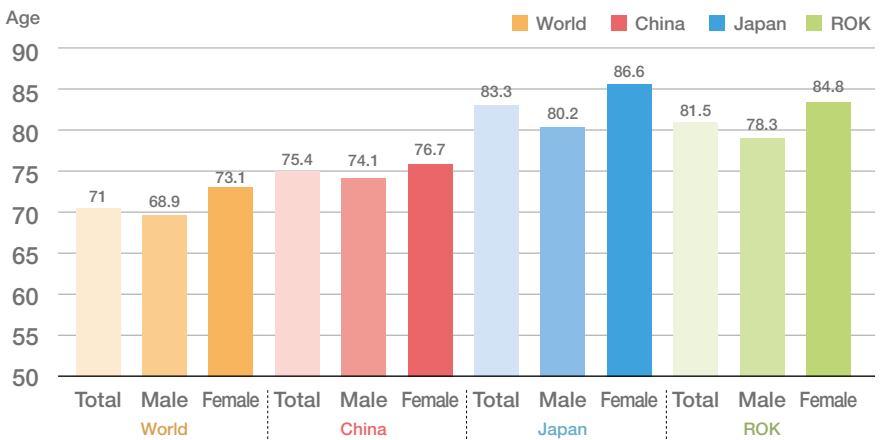
Unit: Age

	World			China			Japan			ROK		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
2004	68.8	66.8	70.9	73.8	72.6	75.1	82.0	78.6	85.6	77.8	74.5	81.4
2005	69.0	67.0	71.2	74.1	72.8	75.3	81.9	78.5	85.5	78.4	75.1	81.9
2006	69.3	67.3	71.5	74.3	73.0	75.5	82.3	79.0	85.8	79.0	75.7	82.4
2007	69.6	67.5	71.7	74.4	73.2	75.7	82.5	79.2	86.0	79.3	76.1	82.7
2008	69.8	67.8	72.0	74.6	73.3	75.9	82.6	79.3	86.1	79.8	76.5	83.3
2009	70.1	68.0	72.2	74.7	73.5	76.0	82.9	79.6	86.4	80.3	77.0	83.8
2010	70.3	68.3	72.5	74.9	73.6	76.2	82.8	79.6	86.3	80.6	77.2	84.1
2011	70.6	68.5	72.7	75.0	73.8	76.4	82.6	79.4	85.9	81.0	77.7	84.5
2012	70.8	68.7	72.9	75.2	73.9	76.5	83.1	80.0	86.4	81.2	78.1	84.6
2013	71.0	68.9	73.1	75.4	74.1	76.7	83.3	80.2	86.6	81.5	78.3	84.8

* Life expectancy at birth indicates the number of years a newborn infant would live if prevailing patterns of mortality at the time of its birth were to stay the same throughout its life.

Source World Bank

Average Life Expectancy (2013)



School Enrollment

Unit: % Gross

China				
	Pre-primary	Primary	Secondary	Tertiary
2008	51	128	75	20
2009	53	129	79	22
2010	56	129	83	23
2011	62	128	87	24
2012	70	128	89	27
Japan				
	Pre-primary	Primary	Secondary	Tertiary
2008	90	101	101	58
2009	90	102	101	58
2010	88	102	102	58
2011	87	103	102	60
2012	88	102	102	61
ROK				
	Pre-primary	Primary	Secondary	Tertiary
2008	114	103	96	102
2009	121	103	97	102
2010	119	103	97	101
2011	118	104	97	101
2012	n/a	103	97	98

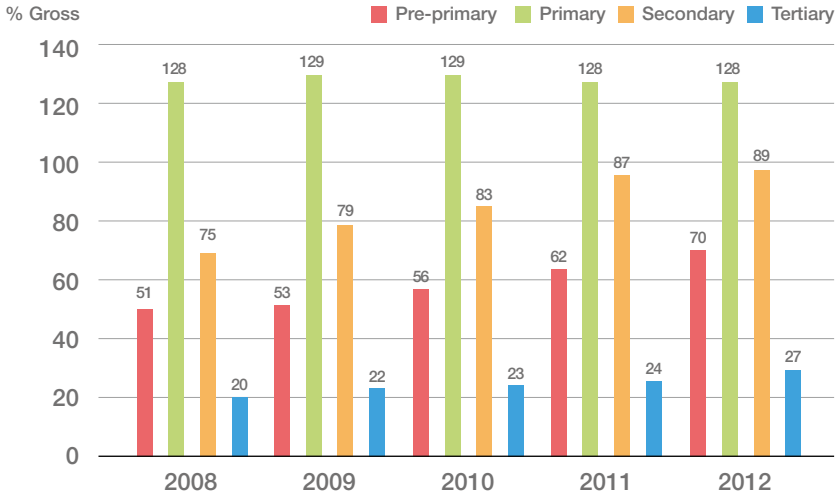
* Gross enrollment ratio is the ratio of total enrollment, regardless of age, to the population of the age group that officially corresponds to the level of education shown.

**Preprimary education refers to the initial stage of organized instruction, designed primarily to introduce very young children to a school-type environment.

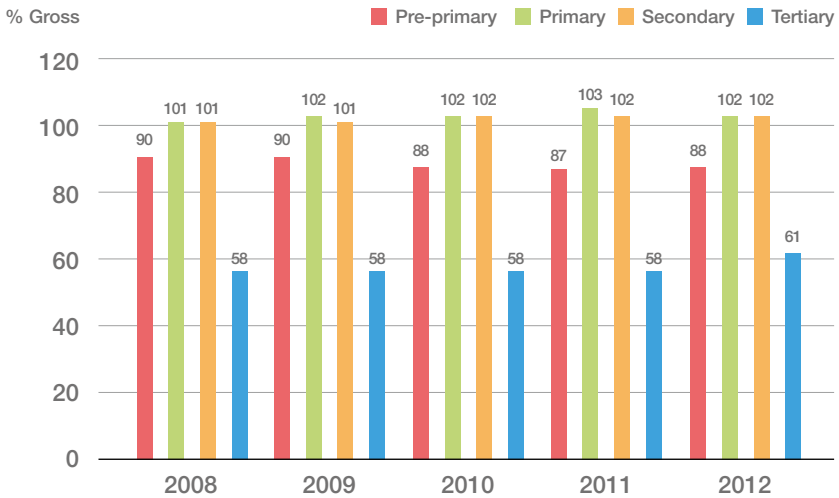
*** Primary education provides children with basic reading, writing, and mathematics skills along with an elementary understanding of such subjects as history, geography, natural science, social science, art, and music.

Source	World Bank
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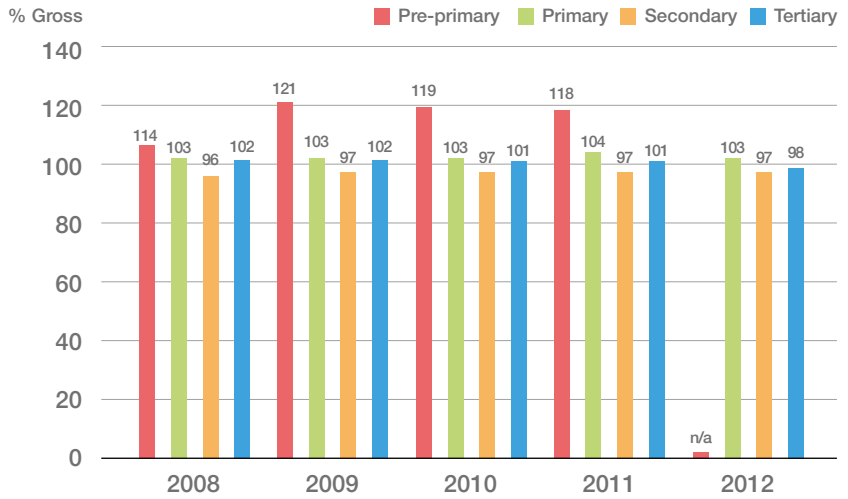
School Enrollment (China)



School Enrollment (Japan)



School Enrollment (ROK)



4-5 Employment and Unemployment

Unit: Thousand Persons

Labor Force and Unemployed (Total)						
	China		Japan		ROK	
	Employment	Unemployment	Employment	Unemployment	Employment	Unemployment
2004	742,640	8,270	63,290	3,130	22,557	860
2005	746,470	8,390	63,560	2,940	22,856	887
2006	749,780	8,470	63,890	2,750	23,151	827
2007	753,210	8,300	64,270	2,570	23,433	783
2008	755,640	8,860	64,090	2,650	23,577	769
2009	758,280	9,210	63,140	3,360	23,506	889
2010	761,050	9,080	62,980	3,340	23,829	920
2011	764,200	9,220	62,890	3,020	24,244	855
2012	767,040	9,200	62,700	2,850	24,681	820
2013	769,800	9,300	63,110	2,650	25,066	807

* Total labor force comprises people ages 15 and older who meet the International Labour Organization definition of the economically active population: all people who supply labor for the production of goods and services during a specified period.

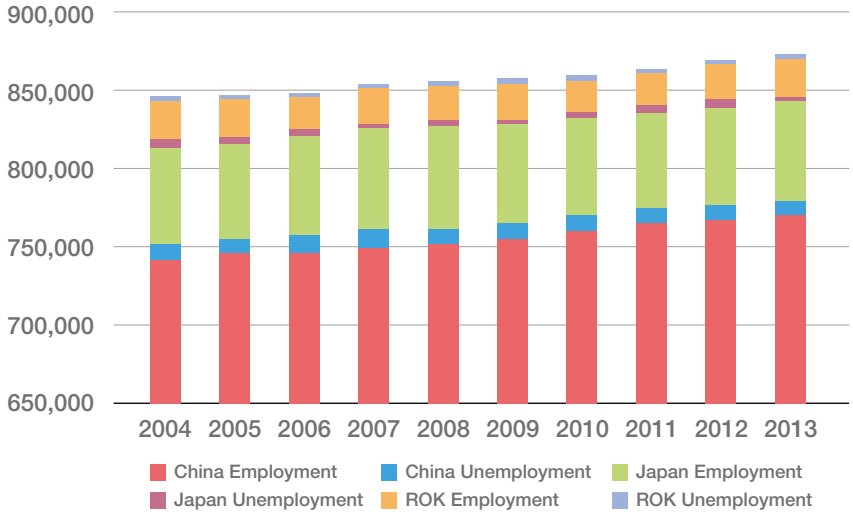
Unit: % of Total Employment

	Employment in Agriculture			Employment in Industry			Employment in Services		
	China	Japan	ROK	China	Japan	ROK	China	Japan	ROK
1990	60.1	7.2	17.9	21.4	24.2	27.6	18.5	68.6	54.5
1995	52.2	5.7	11.8	23.0	22.6	23.7	24.8	71.7	64.5
2000	50.0	5.1	10.6	22.5	20.6	20.4	27.5	74.4	69.0
2007	40.8	4.2	7.4	26.8	18.3	17.2	32.4	77.5	75.4
2008	39.6	4.2	7.2	27.2	18.0	16.9	33.2	77.8	75.9
2009	38.1	4.2	7.0	27.8	17.2	16.4	34.1	78.6	76.6
2010	36.7	4.0	6.6	28.7	16.9	17.0	34.6	79.1	76.4
2011	34.8	4.0	6.4	29.5	16.7	16.9	35.7	79.3	76.7
2012	33.6	3.8	6.2	30.3	16.5	16.7	36.1	79.7	77.1
2013	31.4	3.7	6.0	30.1	16.5	16.8	38.5	79.8	77.2

Source Key Indicators for Asia and the Pacific, Asian Development Bank

Employment and Unemployment

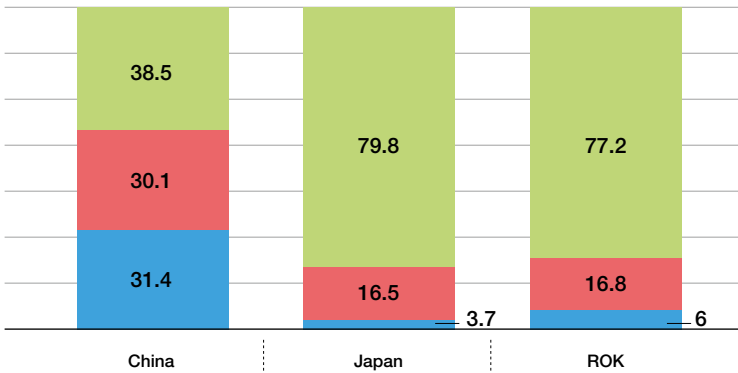
Thousand Persons



Employment in each sector (2013)

% of Total Employment

■ Agriculture ■ Industry ■ Services



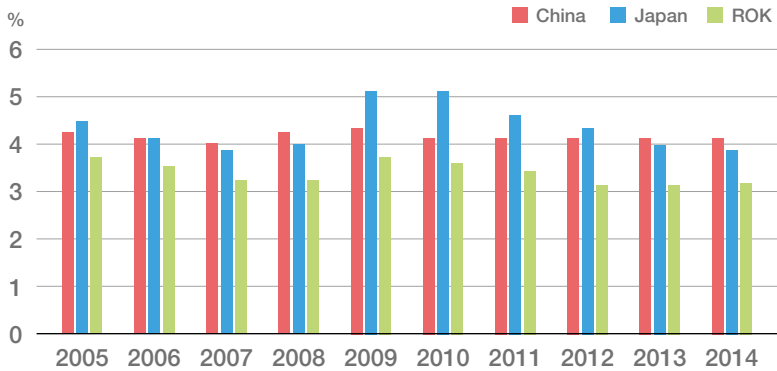
4-6 Unemployment Rate

Unit: %

	China	Japan	ROK
2005	4.2	4.4	3.7
2006	4.1	4.1	3.5
2007	4.0	3.9	3.2
2008	4.2	4.0	3.2
2009	4.3	5.1	3.6
2010	4.1	5.1	3.7
2011	4.1	4.6	3.4
2012	4.1	4.3	3.2
2013	4.1	4.0	3.1
2014	4.1	3.9	3.1

Source International Monetary Fund (IMF)

Unemployment Rate



Trade

5

- 5-1.** Trade Volumes
- 5-2.** Trade Dependency
- 5-3.** Trade Relations among the Three Countries (China)
- 5-4.** Trade Relations among the Three Countries (Japan)
- 5-5.** Trade Relations among the Three Countries (ROK)
- 5-6.** Top 10 Export Markets
- 5-7.** Revealed Comparative Advantage (RCA) Index
- 5-8.** Merchandise Trade Balance
- 5-9.** Top 10 Export Commodities of China
- 5-10.** Top 10 Import Commodities of China
- 5-11.** Top 10 Export Commodities of Japan
- 5-12.** Top 10 Import Commodities of Japan
- 5-13.** Top 10 Export Commodities of ROK
- 5-14.** Top 10 Import Commodities of ROK
- 5-15.** Bilateral Exports of China
- 5-16.** Bilateral Imports of China
- 5-17.** Bilateral Trade of China (Merchandise Detailed Products)
- 5-18.** Bilateral Exports of Japan
- 5-19.** Bilateral Imports of Japan
- 5-20.** Bilateral Trade of Japan in (Merchandise Detailed Products)
- 5-21.** Bilateral Exports of ROK
- 5-22.** Bilateral Imports of ROK
- 5-23.** Bilateral Trade of ROK in (Merchandise Detailed Products)

5-1 Trade Volumes

Unit: Billion US\$

	World		ASEAN**		China		Japan		ROK	
	Export	Import	Export	Import	Export	Import	Export	Import	Export	Import
2005	10,502	10,778	657	603	762	660	595	516	284	261
2006	12,128	12,355	770	688	969	791	647	579	325	309
2007	14,021	14,230	865	775	1,220	956	714	622	371	357
2008	16,149	16,468	990	939	1,431	1,133	781	763	422	435
2009	12,556	12,690	814	727	1,202	1,006	581	552	364	323
2010	15,302	15,420	1,050	953	1,578	1,396	770	694	466	425
2011	18,334	18,419	1,239	1,154	1,898	1,743	823	855	555	524
2012	18,409	18,533	1,254	1,224	2,049	1,818	799	886	548	520
2013	18,827	18,817	1,273	1,245	2,209	1,950	715	833	560	516
2014	18,936	18,916	1,299	1,236	2,343	1,960	684	822	573	526

Unit: %

	% of World						% of ASEAN + 3 ***					
	China		Japan		ROK		China		Japan		ROK	
	Export	Import	Export	Import	Export	Import	Export	Import	Export	Import	Export	Import
2005	7.3	6.1	5.7	4.8	2.7	2.4	33.2	32.4	25.9	25.3	12.4	12.8
2006	8.0	6.4	5.3	4.7	2.7	2.5	35.7	33.4	23.9	24.5	12.0	13.1
2007	8.7	6.7	5.1	4.4	2.7	2.5	38.5	35.3	22.5	23.0	11.7	13.2
2008	8.9	6.9	4.8	4.6	2.6	2.6	39.5	34.6	21.6	23.3	11.7	13.3
2009	9.6	7.9	4.6	4.4	2.9	2.5	40.6	38.6	19.6	21.2	12.3	12.4
2010	10.3	9.1	5.0	4.5	3.0	2.8	40.8	40.3	19.9	20.0	12.1	12.3
2011	10.4	9.5	4.5	4.6	3.0	2.8	42	40.8	18.2	20.0	12.3	12.3
2012	11.1	9.8	4.3	4.8	3.0	2.8	44.1	40.9	17.2	20.0	11.8	11.7
2013	11.7	10.4	3.8	4.4	3.0	2.7	46.4	42.9	15.0	18.3	11.8	11.4
2014	12.4	10.4	3.6	4.3	3.0	2.8	47.8	43.1	14.0	18.1	11.7	11.6

* The data includes only merchandise trade.

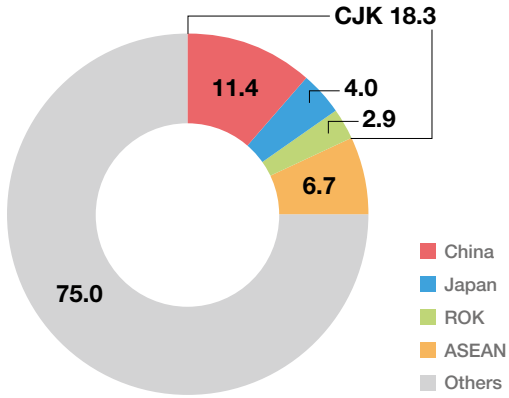
** ASEAN: Philippines, Malaysia, Singapore, Indonesia, Thai, Brunei, Vietnam, Lao PDR, Cambodia, Myanmar

*** ASEAN + 3 include members of ASEAN and China, Japan, ROK.

Source United Nations Conference on Trade and Development (UNCTAD)

Trade Volumes (2014)

% of World



5-2 Trade Dependency

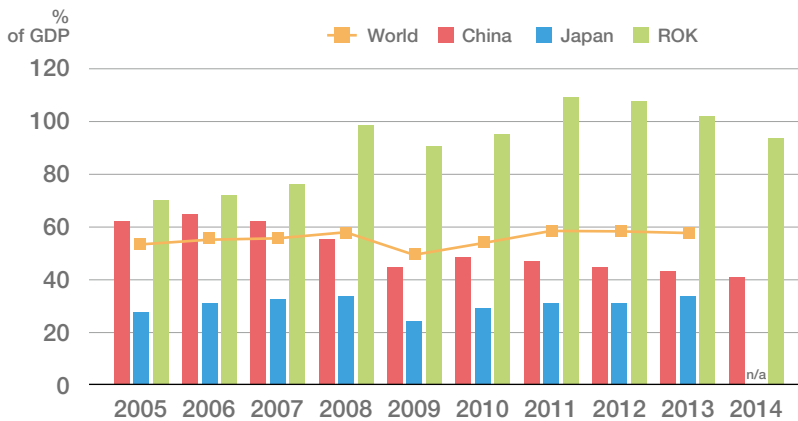
Unit: % of GDP

	World	China	Japan	ROK
2005	53.8	62.9	27.2	71.2
2006	56.4	64.8	31.1	73.6
2007	57.2	62.3	33.8	77.2
2008	59.3	56.8	35.2	99.9
2009	51.0	43.6	25.0	90.4
2010	55.9	49.3	29.1	95.7
2011	59.6	48.8	31.2	110.0
2012	59.9	45.7	31.3	109.9
2013	59.4	43.9	35.1	102.8
2014	-	41.5	-	95.9

* Trade dependency is the ratio of total trade volume to GDP.

Source World Bank

Trade Dependency



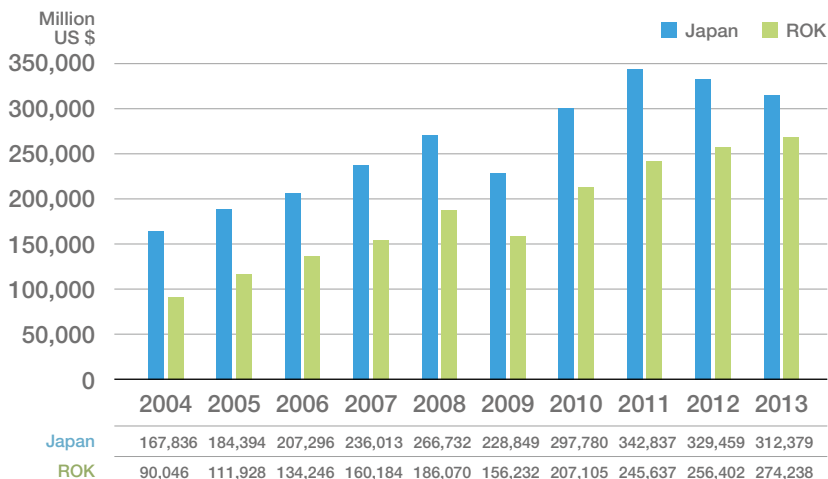
5-3

Trade Relations among the Three Countries (China)

Unit: Million US \$ (% of Total Exports or Imports of China)

	China					
	Export to		Import from		Total	
	Japan	ROK	Japan	ROK	Exports	Imports
2004	73,509 (12.4)	27,812 (4.7)	94,327 (16.8)	62,234 (11.1)	593,326	561,229
2005	83,986 (11.0)	35,108 (4.6)	100,408 (15.2)	76,820 (11.6)	761,953	659,953
2006	91,623 (9.5)	44,522 (4.6)	115,673 (14.6)	89,724 (11.3)	968,936	791,461
2007	102,062 (8.4)	56,432 (4.6)	133,951 (14.0)	103,752 (10.9)	1,220,060	956,115
2008	116,132 (8.1)	73,932 (5.2)	150,600 (13.3)	112,138 (9.9)	1,430,693	1,132,562
2009	97,911 (8.1)	53,680 (4.5)	130,938 (13.0)	102,552 (10.2)	1,201,647	1,005,555
2010	121,044 (7.7)	68,766 (4.4)	176,736 (12.7)	138,339 (9.9)	1,577,764	1,396,002
2011	148,269 (7.8)	82,920 (4.4)	194,568 (11.2)	162,717 (9.3)	1,898,388	1,743,395
2012	151,627 (7.4)	87,674 (4.3)	177,832 (9.8)	168,728 (9.3)	2,048,782	1,818,199
2013	150,133 (6.8)	91,165 (4.1)	162,246 (8.3)	183,073 (9.4)	2,209,007	1,949,992
Source	World Integrated Trade Solution (WITS)					

Trade Relations among the Three Countries (China)

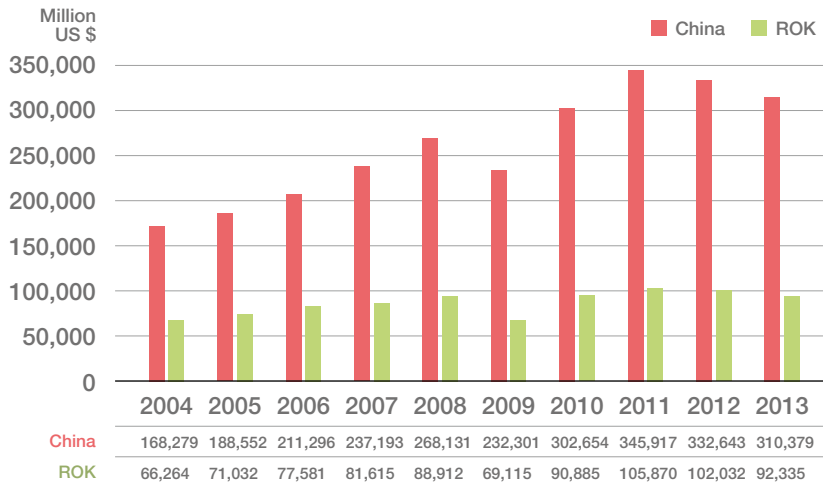


5-4 Trade Relations among the Three Countries (Japan)

Unit: Million US \$ (% of Total Exports or Imports of Japan)

Japan						
	Export to		Import from		Total	
	China	ROK	China	ROK	Exports	Imports
2004	73,939 (13.1)	44,257 (7.8)	94,340 (20.7)	22,007 (4.8)	565,761	455,254
2005	80,074 (13.5)	46,630 (7.9)	108,478 (21.0)	24,402 (4.7)	594,941	515,866
2006	92,770 (14.3)	50,270 (7.8)	118,526 (20.5)	27,311 (4.7)	646,725	579,064
2007	109,271 (15.3)	54,333 (7.6)	127,922 (20.6)	27,282 (4.4)	714,327	622,243
2008	124,901 (16.0)	59,493 (7.6)	143,230 (18.8)	29,419 (3.9)	781,412	762,534
2009	109,727 (18.9)	47,273 (8.1)	122,574 (22.2)	21,842 (4.0)	580,719	551,985
2010	149,451 (19.4)	62,361 (8.1)	153,203 (22.1)	28,524 (4.1)	769,774	694,059
2011	162,035 (19.7)	66,174 (8.0)	183,882(21.5)	39,696 (4.6)	823,184	855,380
2012	144,208 (18.1)	61,538 (7.7)	188,435 (21.3)	40,494 (4.6)	798,568	885,843
2013	129,401 (18.1)	56,513 (7.9)	180,978 (21.8)	35,822 (4.3)	715,097	833,166
Source	World Integrated Trade Statistics (WITS)					

Trade Relations among the Three Countries (Japan)



5-5

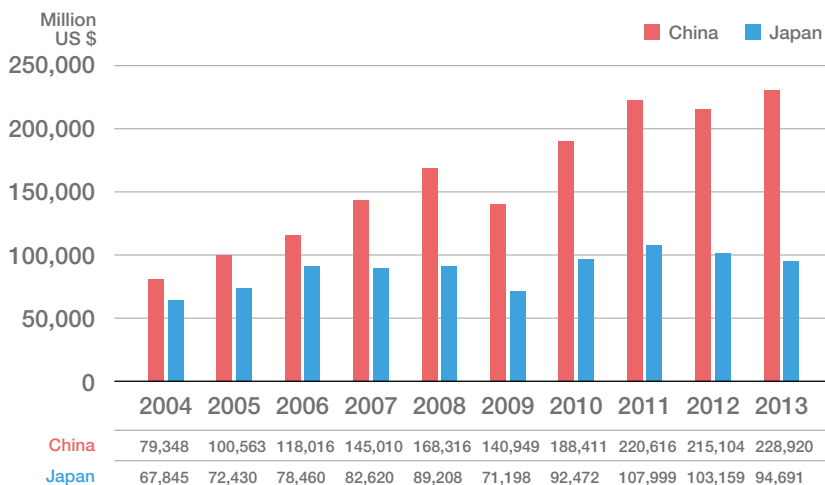
Trade Relations among the Three Countries (ROK)

Unit: Million US \$ (% of Total Exports or Imports of ROK)

	ROK					
	Export to		Import from		Total	
	China	Japan	China	Japan	Exports	Imports
2004	49,763 (19.6)	21,701 (8.6)	29,585 (13.2)	46,144 (20.6)	253,845	224,461
2005	61,915 (21.8)	24,027 (8.5)	38,648 (14.8)	48,403 (18.6)	284,418	261,236
2006	69,459 (21.3)	26,534 (8.2)	48,557 (15.7)	51,926 (16.8)	325,457	309,379
2007	81,985 (22.1)	26,370 (7.1)	63,025 (17.7)	56,250 (15.8)	371,477	356,841
2008	91,389 (21.7)	28,252 (6.7)	76,927 (17.7)	60,956 (14.0)	422,003	435,271
2009	86,703 (23.9)	21,771 (6.0)	54,246 (16.8)	49,427 (15.3)	363,531	323,082
2010	116,838 (25.1)	28,176 (6.0)	71,573 (16.9)	64,296 (15.1)	466,381	425,208
2011	134,185 (24.2)	39,679 (7.2)	86,431 (16.5)	68,320 (13.0)	555,209	524,405
2012	134,322 (24.5)	38,796 (7.1)	80,782 (15.6)	64,363 (12.4)	547,854	519,576
2013	145,869 (26.1)	34,662 (6.2)	83,051 (16.1)	60,029 (11.6)	559,619	515,573

Source World Integrated Trade Statistics (WITS)

Trade Relations among the Three Countries (ROK)



5-6 Top 10 Export Markets (2013)

Unit: Million US \$

Rank	China		Japan		ROK	
1	Hong Kong	384,792	USA	134,398	China	145,869
2	USA	368,427	China	129,052	USA	62,327
3	Japan	150,275	ROK	56,503	Japan	34,662
4	ROK	91,176	Taipei, China	41,617	Hong Kong	27,756
5	Germany	67,348	Hong Kong	37,348	Singapore	22,289
6	Netherlands	60,317	Thailand	35,985	Viet Nam	21,088
7	UK	50,949	Singapore	20,962	Taipei, China	15,699
8	Russia	49,595	Germany	18,931	Indonesia	11,568
9	India	48,443	Australia	16,953	India	11,376
10	Singapore	45,864	Malaysia	15,236	Brazil	9,688
	Others	892,833	Others	207,626	Others	197,302
Source	Country Profile (2014), Asian Development Bank (ADB)					





	%
USA	18.8
China	18.1
ROK	7.9
Taipei, China	5.8
Hong Kong	5.2
Thailand	5.0
Singapore	2.9
Germany	2.6
Australia	2.4
Malaysia	2.1
Others	29.1



	%
China	26.1
USA	11.1
Japan	6.2
Hong Kong	5.0
Singapore	4.0
Viet Nam	3.8
Taipei, China	2.8
Indonesia	2.1
India	2.0
Brazil	1.7
Others	35.3

5-7

Revealed Comparative Advantage (RCA) Index

RCA Indexes: Average 2009-2013

Rank	China		Japan		ROK	
	Product Group	RCA	Product Group	RCA	Product Group	RCA
1	Footwear	3.94	Transportation	2.37	Mach and Elec	1.78
2	Hides and Skins	2.76	Capital goods	1.70	Capital goods	1.77
3	Textiles and Clothing	2.67	Mach and Elec	1.56	Plastic or Rubber	1.63
4	Mach and Elec	2.10	Metals	1.47	Transportation	1.43
5	Capital goods	1.70	Plastic or Rubber	1.33	Metals	1.21
6	Miscellaneous	1.37	Miscellaneous	1.21	Intermediate goods	1.17
7	Consumer goods	1.11	Intermediate goods	1.13	Miscellaneous	0.97
8	Metals	1.01	Chemicals	0.99	Consumer goods	0.76
9	Plastic or Rubber	0.85	Consumer goods	0.82	Chemicals	0.75
10	Wood	0.69	Stone and Glass	0.71	Textiles and Clothing	0.55

* The RCA index is the proportion of the product's export in country's exports relative to the proportion of the product's export in world exports. The country has a comparative advantage of $RCA > 1$, and has a comparative disadvantage when $RCA < 1$.

Source World Integrated Trade Statistics (WITS)

Merchandise Trade Balance

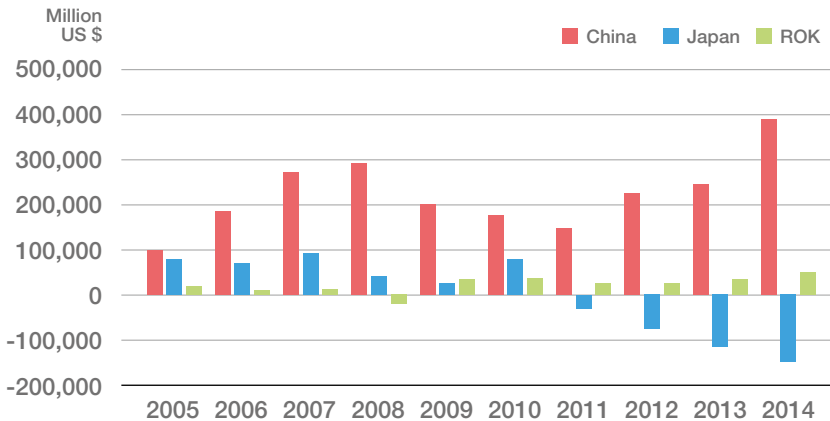
Unit : Million US\$

	China			Japan			ROK		
	Merchandise Exports	Merchandise Imports	Balance	Merchandise Exports	Merchandise Imports	Balance	Merchandise Exports	Merchandise Imports	Balance
2005	761,953	659,953	102,000	594,941	515,866	79,074	284,419	261,238	23,181
2006	968,978	791,461	177,517	646,725	579,064	67,661	325,465	309,383	16,082
2007	1,220,456	956,116	264,340	714,327	622,243	92,084	371,489	356,846	14,643
2008	1,430,693	1,132,567	298,126	781,412	762,534	18,878	422,007	435,275	-13,267
2009	1,201,612	1,005,923	195,689	580,719	551,981	28,738	363,534	323,085	40,449
2010	1,577,754	1,396,247	181,507	769,774	694,059	75,715	466,384	425,212	41,172
2011	1,898,381	1,743,484	154,897	823,184	855,380	-32,197	555,214	524,413	30,801
2012	2,048,714	1,818,405	230,309	798,568	885,843	-87,276	547,870	519,584	28,286
2013	2,209,004	1,949,989	259,015	715,097	833,166	-118,069	559,632	515,586	44,046
2014	2,342,306	1,959,356	382,950	683,846	822,251	-138,405	572,665	525,515	47,150

The merchandise trade balance is the difference in value between exported and imported goods. A positive number indicates that more goods were exported than imported.

Source United Nations Conference on Trade and Development (UNCTAD)

Merchandise Trade Balance



5-9 Top 10 Export Commodities of China

Unit : Billion US\$

HS-4 digits	Products	2011	2012	2013
8471	Automatic data processing machines and units thereof	152.0	163.4	161.7
8517	Electrical apparatus for line telephony or line telegraphy	133.4	153.2	174.9
8542	Electronic integrated circuits	32.9	53.7	87.9
9013	Liquid crystal device	31.7	38.7	38.6
8541	Diodes, transistors and similar semiconductor devices	35.4	27.3	27.9
8473	Parts and accessories for use with machines of heading 84.69 to 84.72	30.6	30.4	29.4
8901	Cruise ships, excursion boats, ferry-boats, cargo ships, barges	37.1	31.8	21.3
8528	Reception apparatus for television	30.3	27.7	26.7
4202	Trunks, suit-cases, vanity-cases, executive-cases, brief-cases	23.9	25.3	27.6
9403	Other furniture and parts thereof	20.9	27.0	28.9
All Commodities		1898.4	2048.8	2209.0
Source	United Nations Commodity Trade (UNCOMTRADE) 2013 International Trade Statistics Yearbook			

Top 10 Import Commodities of China

Unit : Billion US\$

HS-4 digits	Products	2011	2012	2013
2709	Petroleum oils and oils obtained from bituminous minerals, crude	196.8	220.8	219.7
8542	Electronic integrated circuits	171.1	193.0	232.1
2601	Iron ores and concentrates, including roasted iron pyrites	112.4	95.6	106.2
9999	Commodities not specified according to kind	49.5	68.8	104.7
9013	Liquid crystal devices	53.1	55.9	55.4
8703	Motor cars and other motor vehicles principally designed for the transport	41.0	45.5	47.5
8517	Electrical apparatus for line telephony or line telegraphy	30.9	39.1	46.9
1201	Soya beans, whether or not broken	29.7	35.0	38.0
2710	Petroleum oils, other than crude	32.8	33.0	32.0
8471	Automatic data processing machines and units thereof	29.4	34.9	29.1
All Commodities		1743.4	1818.2	1950.0

Source

United Nations Commodity Trade (UNCOMTRADE) 2013 International Trade Statistics Yearbook

5-11 Top 10 Export Commodities of Japan

Unit : Million US\$

HS-4 digits	Products	2011	2012	2013
8703	Motor cars and other motor vehicles principally designed for the transport	87,337.9	97,460.2	91,688.8
8708	Parts and accessories of the motor vehicles of headings 87.01 to 87.05	37,489.2	39,698.6	35,301.2
9999	Commodities not specified according to kind	39,383.5	35,510.2	35,791.4
8542	Electronic integrated circuits	32,013.2	30,588.2	26,994.8
8901	Cruise ships, excursion boats, ferry-boats, cargo ships, barges	25,682.6	21,473.4	14,867.8
8486	Machines and apparatus used for the manufacture of semiconductor devices	20,960.4	14,655.3	12,691.2
8443	Printing machinery used for printing by means of the printing type, blocks	15,136.1	13,748.7	12,512.5
2710	Petroleum oils, other than crude	14,583.8	11,653.3	14,665.6
8704	Motor vehicles for the transport of goods	11,267.3	12,512.9	10,105.1
8541	Diodes, transistors and similar semiconductor devices	12,257.2	10,850.9	9,062.4
All Commodities		823,183.8	798,567.6	715,097.2
Source	United Nations Commodity Trade (UNCOMTRADE) 2013 International Trade Statistics Yearbook			

Top 10 Import Commodities of Japan

Unit : Million US\$

HS-4 digits	Products	2011	2012	2013
2709	Petroleum oils and oils obtained from bituminous minerals, crude	142,101.3	153,103.0	145,720.8
2711	Petroleum gases and other gaseous hydrocarbons	71,316.6	88,022.2	83,330.4
2710	Petroleum oils, other than crude	27,879.7	30,025.9	26,882.1
2701	Coal; briquettes, ovoids and similar solid fuels manufactured from coal	30,907.8	29,037.3	23,608.1
8517	Electrical apparatus for line telephony or line telegraphy	18,754.0	25,519.5	25,991.0
2601	Iron ores and concentrates, including roasted iron pyrites	21,449.3	19,232.0	17,391.5
8542	Electronic integrated circuits	17,966.8	17,424.3	16,501.6
8471	Automatic data processing machines and units thereof	17,039.7	16,997.1	16,473.9
3004	Medicaments (excluding goods of heading 30.02, 30.05 or 30.06)	13,903.1	16,697.4	14,790.8
9999	Commodities not specified according to kind	12,320.9	12,214.4	10,484.6
All Commodities		855,380.5	885,843.3	833,166.1
Source	United Nations Commodity Trade (UNCOMTRADE) 2013 International Trade Statistics Yearbook			

5-13 Top 10 Export Commodities of ROK

Unit : Million US\$

HS-4 digits	Products	2011	2012	2013
2710	Petroleum oils, other than crude	50,371.1	54,726.3	51,003.4
8542	Electronic integrated circuits	39,664.8	41,346.6	47,118.0
8703	Motor cars and other motor vehicles principally designed for the transport	40,909.9	42,387.5	44,283.4
8901	Cruise ships, excursion boats, ferry-boats, cargo ships, barges	37,969.8	30,566.1	24,365.5
9013	Liquid crystal devices	27,656.2	27,525.0	25,308.8
8517	Electronic apparatus for line telephony or line telegraphy	25,802.4	20,962.1	25,604.6
8708	Parts and accessories of the motor vehicles of headings 87.01 to 87.05	21,583.4	22,632.1	23,840.0
8905	Light-vessels, fire-floats, dredgers, floating cranes and other vessels	16,043.7	7,216.0	11,328.8
2902	Cyclic hydrocarbons	7,987.3	9,065.8	10,408.3
8529	Parts suitable for use with the apparatus of headings 85.25 to 85.28	8,444.3	7,091.8	7,951.8
All Commodities		555,208.9	547,854.4	559,618.6
Source	United Nations Commodity Trade (UNCOMTRADE) 2013 International Trade Statistics Yearbook			

Top 10 Import Commodities of ROK

Unit : Million US\$

HS-4 digits	Products	2011	2012	2013
2709	Petroleum oils and oils obtained from bituminous minerals, crude	100,805.6	108,298.2	99,333.2
2711	Petroleum gases and other gaseous hydrocarbons	30,182.7	33,834.1	36,320.7
8542	Electronic integrated circuits	25,369.8	25,421.6	27,808.5
2710	Petroleum oils, other than crude	22,029.9	25,700.6	28,842.4
2701	Coal; briquettes, ovoids and similar solid fuels manufactured from coal	18,283.7	15,908.0	12,951.0
2601	Iron ores and concentrates, including roasted iron pyrites	11,380.8	9,531.7	8,354.2
8486	Machines and apparatus used for the manufacture of semiconductor devices	10,336.2	8,219.3	6,436.7
8517	Electrical apparatus for line telephony or line telegraphy	8,492.5	5,373.1	5,857.8
7208	Flat-rolled products of iron or non-alloy steel	7,775.2	5,994.8	4,233.6
8541	Diodes, transistors and similar semiconductor devices	4,713.9	4,820.2	5,032.6
All Commodities		524,405.2	519,575.6	515,573.0
Source	United Nations Commodity Trade (UNCOMTRADE) 2013 International Trade Statistics Yearbook			

5-15

Bilateral Exports of China

Unit: Million US\$

	Japan	2011	2012	2013	ROK	2011	2012	2013
1	Machinery and transport equipment	57,896	62,662	65,041	Machinery and transport equipment	35,817	42,151	45,906
2	Miscellaneous manufactured articles	42,791	45,938	44,878	Manufactured goods	20,463	19,142	17,967
3	Manufactured goods	20,426	18,747	17,859	Miscellaneous manufactured articles	11,845	12,466	13,044
4	Food and live animals	9,883	10,767	10,098	Chemicals and related products, n.e.s.	7,376	6,782	7,182
5	Chemicals and related products, n.e.s.	11,024	8,894	8,422	Food and live animals	3,532	3,395	3,612
6	Crude materials, inedible, except fuels	2,051	2,018	1,871	Mineral fuels, lubricants and related materials	2,390	2,166	1,982
7	Mineral fuels, lubricants and related materials	3,087	2,472	1,829	Crude materials, inedible, except fuels	1,411	1,449	1,372
8	Beverages and tobacco	64	79	74	Beverages and tobacco	29	40	50
9	Animal and vegetable oils, fats and waxes	33	43	60	Animal and vegetable oils, fats and waxes	30	23	25
10	Commodities and transactions, n.e.s.	1,014	6	1	Commodities and transactions, n.e.s.	28	59	24
Total		148,269	151,627	150,133		82,920	87,671	91,164

* The products are categorized by SITC sections.

** Sorting according to 2013's data.

Source United Nations Conference on Trade and Development (UNCTAD)

Bilateral Imports of China

Unit: Million US\$

	Japan	2011	2012	2013	ROK	2011	2012	2013
1	Machinery and transport equipment	112,164	98,679	85,673	Machinery and transport equipment	76,738	84,202	98,268
2	Chemicals and related products, n.e.s.	25,885	25,141	26,257	Chemicals and related products, n.e.s.	27,356	27,913	30,936
3	Manufactured goods	27,456	24,780	22,485	Miscellaneous manufactured articles	27,574	26,745	25,422
4	Miscellaneous manufactured articles	20,704	20,912	19,983	Manufactured goods	14,609	13,860	15,765
5	Crude materials, inedible, except fuels	5,387	5,731	5,485	Mineral fuels, lubricants and related materials	12,728	11,540	10,263
6	Mineral fuels, lubricants and related materials	2,406	2,107	1,862	Crude materials, inedible, except fuels	2,146	1,925	1,625
7	Food and live animals	250	285	309	Food and live animals	511	489	565
8	Commodities and transactions, n.e.s.	294	158	164	Commodities and transactions, n.e.s.	1,005	1,985	145
9	Beverages and tobacco	12	28	20	Beverages and tobacco	44	59	80
10	Animal and vegetable oils, fats and waxes	11	12	8	Animal and vegetable oils, fats and waxes	7	10	3
Total		194,568	177,833	162,246		162,718	168,728	183,072

* The products are categorized by SITC sections.

** Sorting according to 2013's data.

Source	United Nations Conference on Trade and Development (UNCTAD)
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5-17

Bilateral Trade of China in 2013 (Merchandise Detailed Products)

Unit: Million US\$

Rank	Japan		ROK	
Export				
1	[764] Telecommunication equipment, n.e.s.; & parts, n.e.s.	11,960	[764] Telecommunication equipment, n.e.s.; & parts, n.e.s.	20,328
2	[752] Automatic data processing machines, n.e.s.	9,759	[776] Cathode valves & tubes	5,354
3	[845] Articles of apparel, of textile fabrics, n.e.s.	7,477	[752] Automatic data processing machines, n.e.s.	3,479
4	[776] Cathode valves & tubes	5,465	[871] Optical instruments & apparatus, n.e.s.	2,755
5	[842] Women's clothing, of textile fabrics	4,673	[675] Flat-rolled products of alloy steel	2,364
6	[821] Furniture & parts	3,877	[676] Iron & steel bars, rods, angles, shapes & sections	2,067
7	[775] Household type equipment, electrical or not, n.e.s.	3,713	[772] Apparatus for electrical circuits; board, panels	2,009
8	[841] Men's clothing of textile fabrics, not knitted	3,621	[773] Equipment for distributing electricity, n.	1,536
9	[894] Baby carriages, toys, games & sporting goods	2,940	[778] Electrical machinery & apparatus, n.e.s.	1,519
10	[658] Made-up articles, of textile materials, n.e.s.	2,837	[674] Flat-rolled prod., iron, non-alloy steel, coated, clad	1,312
Import				
1	[776] Cathode valves & tubes	17,799	[776] Cathode valves & tubes	51,055
2	[511] Hydrocarbons, n.e.s., & halogenated, nitr. derivative	7,299	[871] Optical instruments & apparatus, n.e.s.	18,978
3	[784] Parts & accessories of vehicles of 722, 781, 782, 783	7,263	[764] Telecommunication equipment, n.e.s.; & parts, n.e.s.	12,372
4	[871] Optical instruments & apparatus, n.e.s.	7,139	[511] Hydrocarbons, n.e.s., & halogenated, nitr. derivative	10,803
5	[781] Motor vehicles for the transport of persons	7,031	[334] Petroleum oils or bituminous minerals > 70 % oil	7,961
6	[772] Apparatus for electrical circuits; board, panels	6,982	[772] Apparatus for electrical circuits; board, panels	5,715
7	[728] Other machinery for particular industries, n.e.s.	6,474	[784] Parts & accessories of vehicles of 722, 781, 782, 783	3,367
8	[778] Electrical machinery & apparatus, n.e.s.	6,118	[575] Other plastics, in primary forms	3,292
9	[874] Measuring, analysing & controlling apparatus, n.e.s.	4,922	[728] Other machinery for particular industries, n.e.s.	3,284
10	[759] Parts, accessories for machines of groups 751,752	3,542	[778] Electrical machinery & apparatus, n.e.s.	3,082

* Product 781 is motor vehicles for the transport of persons, 782 motor vehicles for transport of goods and for special purpose, and 783 road motor vehicles.

Source United Nations Conference on Trade and Development (UNCTAD)

Bilateral Exports of Japan

Unit: Million US\$

	China	2011	2012	2013	ROK	2011	2012	2013
1	Machinery and transport equipment	88,903	75,145	64,295	Machinery and transport equipment	22,597	20,105	18,494
2	Chemicals and related products, n.e.s.	21,097	19,949	21,064	Chemicals and related products, n.e.s.	15,913	14,901	13,749
3	Manufactured goods	22,818	19,995	17,759	Manufactured goods	14,939	12,687	10,747
4	Miscellaneous manufactured articles	14,644	14,582	13,418	Miscellaneous manufactured articles	5,574	6,051	5,243
5	Commodities and transactions, n.e.s.	6,788	6,711	5,723	Mineral fuels, lubricants and related materials	2,067	2,250	3,163
6	Crude materials, inedible, except fuels	5,282	5,548	5,174	Crude materials, inedible, except fuels	2,197	2,732	2,462
7	Mineral fuels, lubricants and related materials	2,171	1,891	1,588	Commodities and transactions, n.e.s.	2,459	2,449	2,339
8	Food and live animals	299	324	343	Food and live animals	334	267	222
9	Beverages and tobacco	19	48	28	Beverages and tobacco	60	64	58
10	Animal and vegetable oils, fats and waxes	15	15	9	Animal and vegetable oils, fats and waxes	35	33	36
	Total	162,036	144,208	129,401		66,175	61,539	56,513

* The products are categorized by SITC sections.

** Sorting according to 2013's data.

Source United Nations Conference on Trade and Development (UNCTAD)

5-19

Bilateral Imports of Japan

Unit: Million US\$

	China	2011	2012	2013	ROK	2011	2012	2013
1	Machinery and transport equipment	78,090	83,593	84,241	Machinery and transport equipment	12,270	12,546	11,176
2	Miscellaneous manufactured articles	54,697	57,583	53,720	Mineral fuels, lubricants and related materials	8,714	10,146	8,927
3	Manufactured goods	22,503	21,653	20,098	Manufactured goods	8,538	7,771	6,612
4	Chemicals and related products, n.e.s.	13,210	10,222	9,239	Chemicals and related products, n.e.s.	4,058	4,020	3,783
5	Food and live animals	9,172	9,833	8,815	Food and live animals	1,652	1,721	1,486
6	Crude materials, inedible, except fuels	2,502	2,522	2,258	Miscellaneous manufactured articles	1,729	1,803	1,484
7	Commodities and transactions, n.e.s.	1,696	1,615	1,329	Commodities and transactions, n.e.s.	1,174	1,253	1,136
8	Mineral fuels, lubricants and related materials	1,907	1,280	1,116	Crude materials, inedible, except fuels	1,247	870	789
9	Beverages and tobacco	72	86	97	Beverages and tobacco	422	455	424
10	Animal and vegetable oils, fats and waxes	35	47	65	Animal and vegetable oils, fats and waxes	8	7	7
Total		183,884	188,434	180,978		39,812	40,592	35,824

* The products are categorized by SITC sections.

** Sorting according to 2013's data.

Source United Nations Conference on Trade and Development (UNCTAD)

Bilateral Trade of Japan in 2013 (Merchandise Detailed Products)

Unit: Million US\$

Rank	China		ROK	
Export				
1	[776] Cathode valves & tubes	10,057	[511] Hydrocarbons, n.e.s., & halogenated, nitr. derivative	3,528
2	[784] Parts & accessories of vehicles of 722, 781, 782, 783	7,188	[728] Other machinery for particular industries, n.e.s.	3,412
3	[511] Hydrocarbons, n.e.s., & halogenated, nitr. derivative	6,958	[776] Cathode valves & tubes	2,987
4	[728] Other machinery for particular industries, n.e.s.	5,949	[582] Plates, sheets, films, foil & strip, of plastics	2,883
5	[781] Motor vehicles for the transport of persons	5,235	[673] Flat-rolled prod., iron, non-alloy steel, not coated	2,174
6	[772] Apparatus for electrical circuits; board, panels	4,685	[598] Miscellaneous chemical products, n.e.s.	2,046
7	[871] Optical instruments & apparatus, n.e.s.	4,311	[334] Petroleum oils or bituminous minerals > 70 % oil	1,975
8	[778] Electrical machinery & apparatus, n.e.s.	4,011	[884] Optical goods, n.e.s.	1,856
9	[874] Measuring, analysing & controlling apparatus, n.e.s.	3,167	[282] Ferrous waste, scrape; remelting ingots, iron, steel	1,763
10	[759] Parts, accessories for machines of groups 751, 752	2,841	[772] Apparatus for electrical circuits; board, panels	1,730
Import				
1	[764] Telecommunication equipment, n.e.s.; & parts, n.e.s.	23,900	[334] Petroleum oils or bituminous minerals > 70 % oil	8,326
2	[752] Automatic data processing machines, n.e.s.	13,883	[776] Cathode valves & tubes	2,673
3	[845] Articles of apparel, of textile fabrics, n.e.s.	8,467	[764] Telecommunication equipment, n.e.s.; & parts, n.e.s.	2,566
4	[842] Women's clothing, of textile fabrics	5,465	[673] Flat-rolled prod., iron, non-alloy steel, not coated	1,243
5	[894] Baby carriages, toys, games & sporting goods	5,342	[681] Silver, platinum, other metals of the platinum group	1,235
6	[776] Cathode valves & tubes	5,184	[778] Electrical machinery & apparatus, n.e.s.	707
7	[821] Furniture & parts	4,125	[784] Parts & accessories of vehicles of 722, 781, 782, 783	637
8	[775] Household type equipment, electrical or not, n.e.s.	4,086	[335] Residual petroleum products, n.e.s., related mater.	549
9	[851] Footwear	3,868	[034] Fish, fresh (live or dead), chilled or frozen	467
10	[841] Men's clothing of textile fabrics, not knitted	3,735	[575] Other plastics, in primary forms	444

* Product 751 is office machines, 752 automatic data processing machines, 722 tractors, 781 motor vehicles for the transport of persons, 782 motor vehicles for transport of goods and for special purpose, and 783 road motor vehicles.

Source United Nations Conference on Trade and Development (UNCTAD) Statistics

5-21

Bilateral Exports of ROK

Unit: Million US\$

	China	2011	2012	2013	Japan	2011	2012	2013
1	Machinery and transport equipment	56,427	57,902	70,494	Machinery and transport equipment	11,603	12,092	10,340
2	Chemicals and related products, n.e.s.	25,361	25,407	28,333	Mineral fuels, lubricants and related materials	8,775	8,776	8,604
3	Miscellaneous manufactured articles	25,242	25,907	24,117	Manufactured goods	9,143	8,163	6,747
4	Manufactured goods	12,336	11,426	11,394	Chemicals and related products, n.e.s.	4,278	4,207	3,998
5	Mineral fuels, lubricants and related materials	11,589	10,602	8,912	Miscellaneous manufactured articles	2,592	2,584	2,280
6	Crude materials, inedible, except fuels	2,088	1,937	1,518	Food and live animals	1,637	1,683	1,481
7	Food and live animals	921	868	913	Crude materials, inedible, except fuels	1,145	795	742
8	Beverages and tobacco	66	88	96	Beverages and tobacco	367	361	333
9	Commodities and transactions, n.e.s.	120	145	79	Commodities and transactions, n.e.s.	127	126	128
10	Animal and vegetable oils, fats and waxes	37	40	14	Animal and vegetable oils, fats and waxes	12	10	9
Total		134,185	134,322	145,870		39,679	38,796	34,662

* The products are categorized by SITC sections.

** Sorting according to 2013's data.

Source United Nations Conference on Trade and Development (UNCTAD)

Bilateral Imports of ROK

Unit: Million US\$

	China	2011	2012	2013	Japan	2011	2012	2013
1	Machinery and transport equipment	37,903	35,999	37,816	Machinery and transport equipment	25,449	22,600	21,931
2	Manufactured goods	21,148	19,290	19,013	Chemicals and related products, n.e.s.	15,689	15,049	14,014
3	Miscellaneous manufactured articles	12,739	12,608	12,791	Manufactured goods	15,662	13,667	11,548
4	Chemicals and related products, n.e.s.	7,734	7,075	7,381	Miscellaneous manufactured articles	6,536	7,028	5,875
5	Food and live animals	3,139	2,835	3,169	Mineral fuels, lubricants and related materials	1,827	2,426	3,395
6	Crude materials, inedible, except fuels	1,594	1,448	1,437	Crude materials, inedible, except fuels	2,381	2,979	2,694
7	Mineral fuels, lubricants and related materials	2,100	1,400	1,344	Commodities and transactions, n.e.s.	308	240	248
8	Beverages and tobacco	23	27	40	Food and live animals	371	281	238
9	Commodities and transactions, n.e.s.	23	80	40	Beverages and tobacco	55	55	47
10	Animal and vegetable oils, fats and waxes	28	20	21	Animal and vegetable oils, fats and waxes	41	37	40
	Total	86,431	80,782	83,052		68,319	64,362	60,030

* The products are categorized by SITC sections.

** Sorting according to 2013's data.

Source	United Nations Conference on Trade and Development (UNCTAD)
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5-23

Bilateral Trade of ROK in 2013 (Merchandise Detailed Products)

Unit: Million US\$

Rank	China		Japan	
Export				
1	[776] Cathode valves & tubes	20,728	[334] Petroleum oils or bituminous minerals > 70 % oil	8,117
2	[871] Optical instruments & apparatus, n.e.s.	17,652	[764] Telecommunication equipment, n.e.s.; & parts, n.e.s.	2,400
3	[778] Electrical machinery & apparatus, n.e.s.	11,391	[776] Cathode valves & tubes	2,010
4	[511] Hydrocarbons, n.e.s., & halogenated, nitr. derivative	10,627	[673] Flat-rolled prod., iron, non-alloy steel, not coated	1,214
5	[334] Petroleum oils or bituminous minerals > 70 % oil	7,101	[681] Silver, platinum, other metals of the platinum group	1,002
6	[764] Telecommunication equipment, n.e.s.; & parts, n.e.s.	6,882	[784] Parts & accessories of vehicles of 722, 781, 782, 783	697
7	[772] Apparatus for electrical circuits; board, panels	6,067	[699] Manufactures of base metal, n.e.s.	561
8	[784] Parts & accessories of vehicles of 722, 781, 782, 783	5,178	[778] Electrical machinery & apparatus, n.e.s.	531
9	[728] Other machinery for particular industries, n.e.s.	4,177	[511] Hydrocarbons, n.e.s., & halogenated, nitr. derivative	510
10	[575] Other plastics, in primary forms	3,106	[728] Other machinery for particular industries, n.e.s.	493
Import				
1	[776] Cathode valves & tubes	6,119	[776] Cathode valves & tubes	4,565
2	[772] Apparatus for electrical circuits; board, panels	5,911	[728] Other machinery for particular industries, n.e.s.	3,763
3	[764] Telecommunication equipment, n.e.s.; & parts, n.e.s.	4,562	[511] Hydrocarbons, n.e.s., & halogenated, nitr. derivative	3,188
4	[752] Automatic data processing machines, n.e.s.	3,885	[582] Plates, sheets, films, foil & strip, of plastics	2,931
5	[778] Electrical machinery & apparatus, n.e.s.	3,691	[673] Flat-rolled prod., iron, non-alloy steel, not coated	2,628
6	[676] Iron & steel bars, rods, angles, shapes & sections	2,096	[598] Miscellaneous chemical products, n.e.s.	2,244
7	[773] Equipment for distributing electricity, n.e.s.	2,066	[282] Ferrous waste, scrape; remelting ingots, iron, steel	1,886
8	[673] Flat-rolled prod., iron, non-alloy steel, not coated	1,853	[772] Apparatus for electrical circuits; board, panels	1,881
9	[871] Optical instruments & apparatus, n.e.s.	1,670	[884] Optical goods, n.e.s.	1,837
10	[691] Structures & parts, n.e.s., of iron, steel, aluminium	1,465	[334] Petroleum oils or bituminous minerals > 70 % oil	1,721

* Product categories 722 is tractors, 781 motor vehicles for persons, 782 transport of goods and special purpose, and 783 road motor vehicles.

Source United Nations Conference on Trade and Development (UNCTAD)

Investment

6

- 6-1.** Foreign Direct Investment Inflows
- 6-2.** Foreign Direct Investment Outflows
- 6-3.** Foreign Direct Investment Inward Stocks
- 6-4.** Foreign Direct Investment Outward Stocks
- 6-5.** Doing Business Index of China
- 6-6.** Doing Business Index of Japan
- 6-7.** Doing Business Index of ROK
- 6-8.** Doing Business Start-up Indicators
- 6-9.** FDI Regulatory Restrictiveness Index

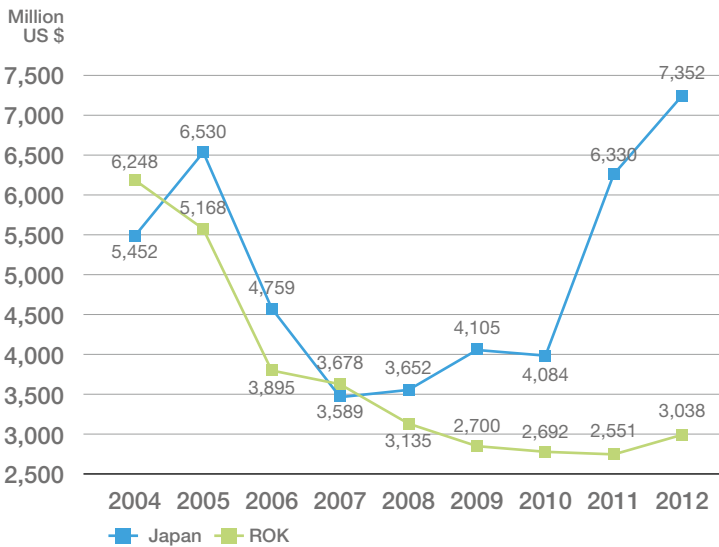
6-1 Foreign Direct Investment Inflows

Unit: Million US \$

	To China			To Japan			To ROK		
	World	Japan	ROK	World	China	ROK	World	China	Japan
2004	60,630	5,452	6,248	7,815	-9	250	13,294	696	1,711
2005	72,406	6,530	5,168	2,776	12	29	13,643	2	1,450
2006	72,715	4,759	3,895	-6,506	12	109	9,162	29	1,422
2007	83,521	3,589	3,678	22,549	14	216	8,827	47	633
2008	108,312	3,652	3,135	24,425	37	283	11,188	242	2,083
2009	95,000	4,105	2,700	11,938	-144	259	9,022	67	1,592
2010	114,734	4,084	2,692	-1,252	314	267	9,497	104	2,517
2011	123,985	6,330	2,551	-1,758	112	198	9,773	158	2,213
2012	121,080	7,352	3,038	1,732	71	558	9,496	246	4,123
2013	123,911	-	-	2,304	-	-	12,221	-	-

Source United Nations Conference on Trade and Development (UNCTAD)

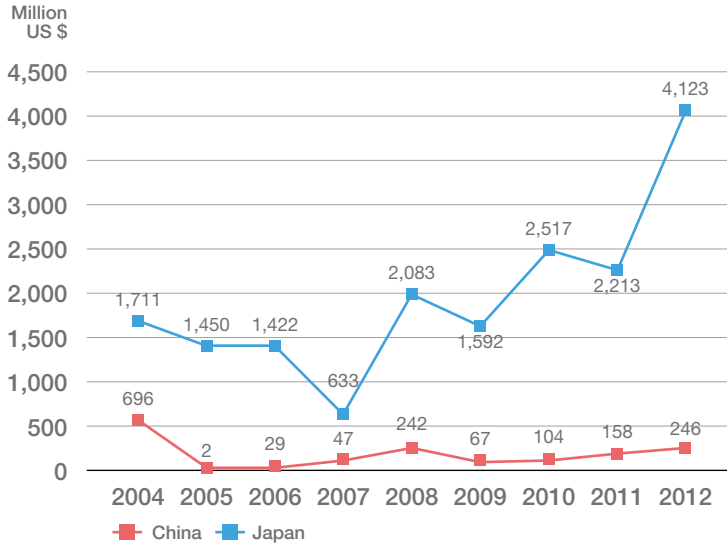
FDI Inflows (China)



FDI Inflows (Japan)



FDI Inflows (ROK)



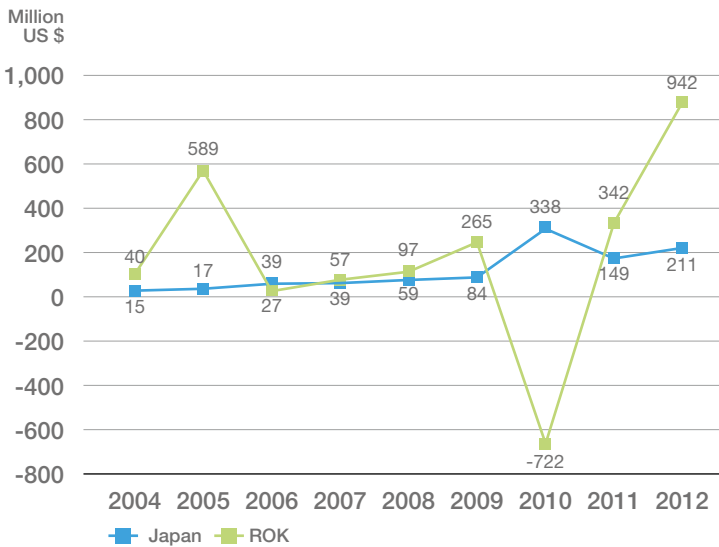
6-2 Foreign Direct Investment Outflows

Unit: Million US \$

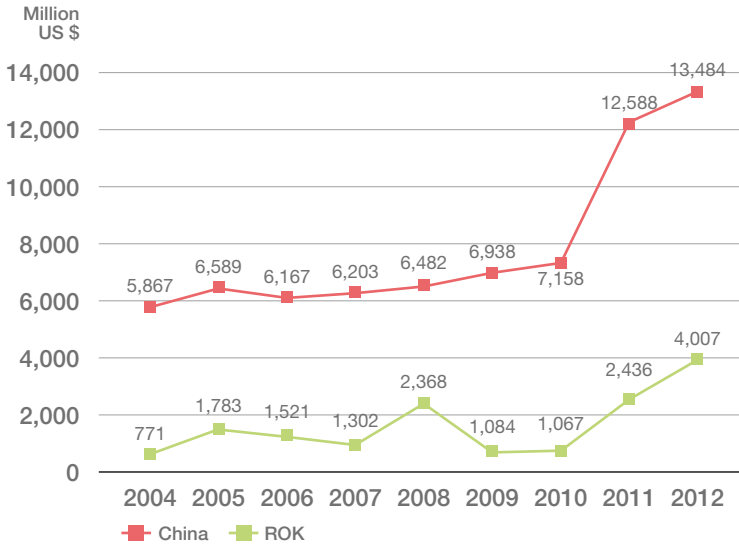
	From China			From Japan			From ROK		
	World	Japan	ROK	World	China	ROK	World	China	Japan
2004	5,498	15	40	30,951	5,867	771	7,196	2,039	259
2005	12,261	17	589	45,781	6,589	1,783	8,330	2,620	79
2006	21,160	39	27	50,266	6,167	1,521	12,769	3,159	233
2007	26,510	39	57	73,549	6,203	1,302	22,074	4,974	471
2008	55,910	59	97	128,020	6,482	2,368	19,633	3,418	388
2009	56,530	84	265	74,699	6,938	1,084	17,436	1,715	363
2010	68,811	338	-722	56,263	7,158	1,067	28,280	2,809	292
2011	74,654	149	342	107,599	12,588	2,436	29,705	4,977	130
2012	87,804	211	942	122,549	13,484	4,007	30,632	5,406	-130
2013	101,000	-	-	135,749	-	-	29,172	-	-

Source United Nations Conference on Trade and Development (UNCTAD)

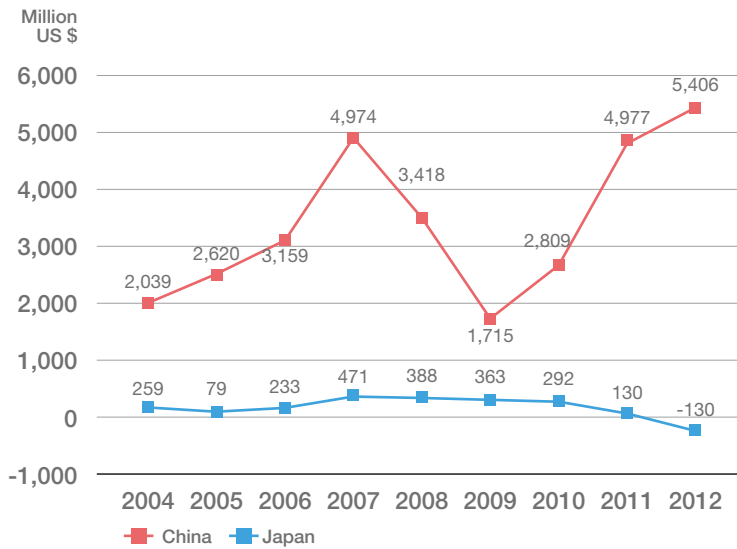
FDI Outflows (China)



FDI Outflows (Japan)



FDI Outflows (ROK)



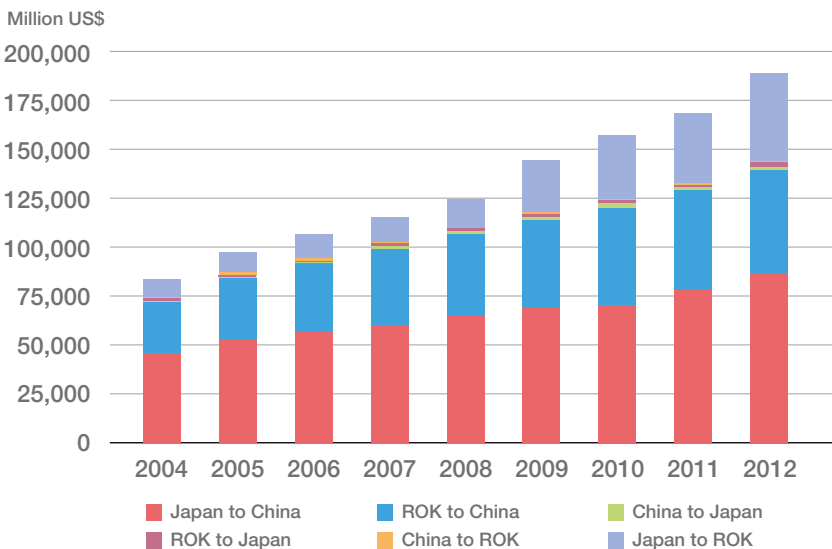
6-3 Foreign Direct Investment Inward Stocks

Unit: Million US \$

	To China			To Japan			To ROK		
	World	Japan	ROK	World	China	ROK	World	China	Japan
2004	245,467	46,846	25,936	96,984	89	535	87,770	1,100	8,878
2005	272,094	53,375	31,104	100,899	102	311	104,880	1,102	10,328
2006	292,559	57,973	34,999	107,633	100	423	115,770	1,131	11,750
2007	327,087	61,724	38,775	132,851	124	688	121,960	1,178	12,419
2008	378,083	65,376	41,910	203,372	224	1,228	94,680	1,326	13,533
2009	473,083	69,481	44,610	200,144	197	1,445	121,100	1,056	27,091
2010	587,817	73,565	47,303	214,880	399	1,935	134,230	1,078	32,403
2011	711,802	79,895	49,854	225,787	559	2,220	133,660	1,474	34,148
2012	832,882	87,247	52,892	205,361	550	2,843	156,140	1,996	41,845
2013	956,793	-	-	170,929	-	-	167,350	-	-

Source United Nations Conference on Trade and Development (UNCTAD)

FDI Inward Stocks among CJK Countries



Foreign Direct Investment Outward Stocks

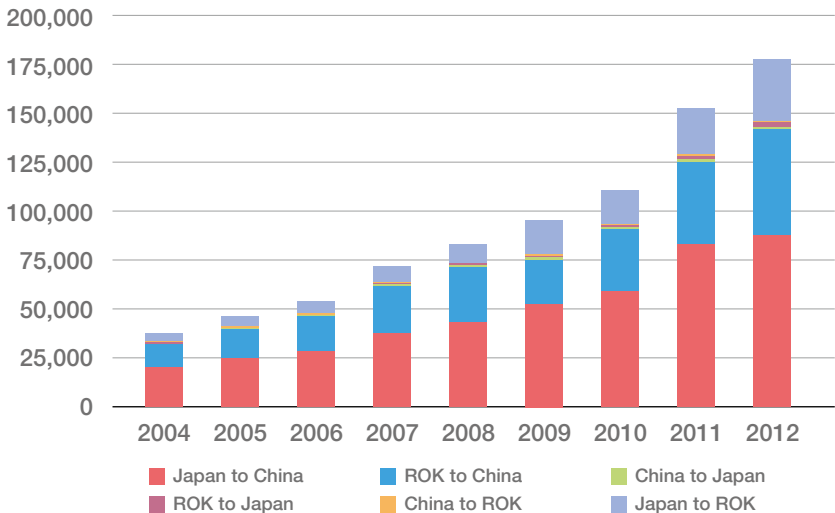
Unit: Million US \$

	From China			From Japan			From ROK		
	World	Japan	ROK	World	China	ROK	World	China	Japan
2004	44,777	139	562	370,544	20,142	6,580	32,170	9,381	799
2005	57,206	151	882	386,581	24,553	8,217	38,680	11,945	914
2006	75,026	224	949	49,190	30,308	10,666	49,190	15,142	1,169
2007	117,911	558	1,214	74,780	37,506	12,010	74,780	20,150	1,623
2008	183,791	510	850	97,910	48,748	12,117	97,910	22,008	1,909
2009	245,755	693	1,218	120,440	55,087	12,612	120,440	23,758	2,251
2010	317,211	1,106	637	143,160	66,527	15,054	143,160	26,070	2,495
2011	424,781	1,366	1,583	171,530	83,218	17,933	171,530	44,587	4,107
2012	512,585	1,620	3,082	201,830	92,967	25,526	201,830	50,591	3,710
2013	512,585	-	-	219,050	-	-	219,050	-	-

Source United Nations Conference on Trade and Development (UNCTAD)

FDI Outward Stocks among CJK Countries

Million US\$



6-5 Doing Business Index of China

Topics	2014 Rank	2015 Rank	Change in Rank
Starting a Business	151	128	↑ 23
Dealing with Construction Permits	177	179	↓ -2
Getting Electricity	121	124	↓ -3
Registering Property	38	37	↑ 1
Getting Credit	67	71	↓ -4
Protecting Minority Investors	123	132	↓ -9
Paying Taxes	127	120	↑ 7
Trading Across Borders	98	98	-
Enforcing Contracts	36	35	↑ 1
Resolving Insolvency	52	53	↓ -1

Source World Bank

6-6 Doing Business Index of Japan

Topics	2014 Rank	2015 Rank	Change in Rank
Starting a Business	78	83	↓ -5
Dealing with Construction Permits	83	83	-
Getting Electricity	29	28	↑ 1
Registering Property	70	73	↓ -3
Getting Credit	67	71	↓ -4
Protecting Minority Investors	35	35	-
Paying Taxes	114	122	↓ -8
Trading Across Borders	20	20	-
Enforcing Contracts	27	26	↑ 1
Resolving Insolvency	2	2	-

Source World Bank

6-7

Doing Business Index of ROK

Topics	2014 Rank	2015 Rank	Change in Rank
Starting a Business	16	17	↓-1
Dealing with Construction Permits	12	12	-
Getting Electricity	1	1	-
Registering Property	78	79	↓-1
Getting Credit	30	36	↓-6
Protecting Minority Investors	26	21	↑ 5
Paying Taxes	24	25	↓-1
Trading Across Borders	3	3	-
Enforcing Contracts	4	4	-
Resolving Insolvency	5	5	-

Source World Bank

6-8

Doing Business Start-up Indicators

Cost of Business Start-up Procedure (% of GNI per capita)									
	2005	2006	2007	2008	2009	2010	2011	2012	2013
China	13.6	9.3	8.4	8.4	4.9	4.5	3.6	2.1	2
Japan	10.7	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
ROK	15.7	18.2	17.1	16.9	14.7	14.7	14.6	14.6	14.6

Time Required to Start Up Business (Days)									
	2005	2006	2007	2008	2009	2010	2011	2012	2013
China	48	35	35	41	38	38	38	33	33
Japan	30	22	22	22	22	22	22	22	22
ROK	17	17	17	17	14	14	6	6	6

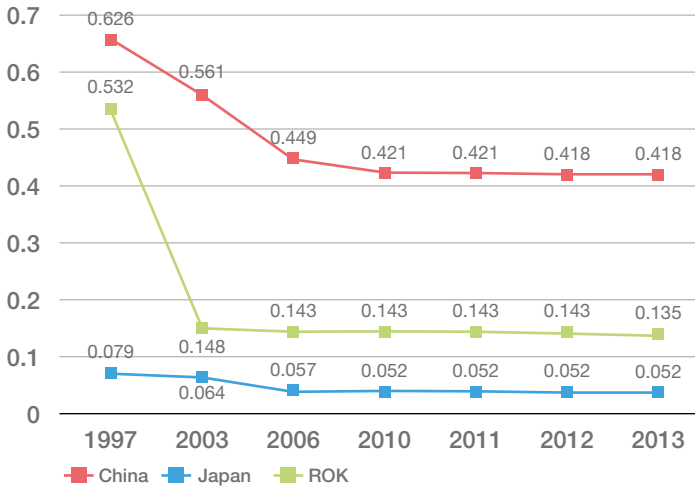
Source Asian Development Bank

6-9 FDI Regulatory Restrictiveness Index

	China	Japan	ROK
1997	0.626	0.079	0.532
2003	0.561	0.064	0.148
2006	0.449	0.057	0.143
2010	0.421	0.052	0.143
2011	0.421	0.052	0.143
2012	0.418	0.052	0.143
2013	0.418	0.052	0.135

Source Organization for Economic Cooperation and Development (OECD)

FDI Regulatory Restrictiveness Index



FTA

7

- 7-1.** FTA of the Three Countries(Negotiation Concluded)
- 7-2.** FTA of the Three Countries (Under Negotiation)
- 7-3.** FTA of the Three Countries (Under Discussion)

7-1 FTA of the Three Countries (Negotiation Concluded)

(As of July, 2015)

Current Situation	China (11)			Japan (15)			ROK (15)		
	Partner	In effect	Type of Agreement	Partner	In effect	Type of Agreement	Partner	In effect (Signed*)	Type of Agreement
Negotiation Concluded	ASEAN	Jul. 2005	FTA	Singapore	Nov. 2002	EPA1	Chile	Apr. 2004	FTA
	Chile	Oct. 2006	FTA	Mexico	Apr. 2005	EPA	Singapore	Mar. 2006	FTA
	Pakistan	Jul. 2007	FTA	Malaysia	Jul. 2006	EPA	EFTA	Sep. 2006	FTA
	New Zealand	Oct. 2008	FTA	Chile	Sep. 2007	EPA	ASEAN	Jun. 2007	FTA
	Singapore	Jan. 2009	FTA	Thailand	Nov. 2007	EPA	India	Jan. 2010	CEPA2
	Peru	Mar. 2010	FTA	Brunei Darussalam	Jul. 2008	EPA	EU	Jul. 2011	FTA
	Costa Rica	Aug. 2011	FTA	Indonesia	Jul. 2008	EPA	Peru	Aug. 2011	FTA
	Iceland	Jul. 2014	FTA	ASEAN	Dec. 2008	EPA	USA	Mar. 2012	FTA
	Switzerland	Jul. 2014	FTA	Philippines	Dec. 2008	EPA	Columbia*	Feb. 2013*	FTA
	ROK	Jun. 2015*	FTA	Switzerland	Sep. 2009	EPA	Turkey	May. 2013	FTA
	Australia	Jun. 2015*	FTA	Viet Nam	Oct. 2009	EPA	Australia	Dec. 2014	FTA
				India	Jun. 2011	EPA	Canada	Jan. 2015	FTA
				Peru	Jan. 2012	EPA	New Zealand*	Mar. 2015*	FTA
				Australia	Jul. 2014	EPA	Viet Nam*	May. 2015*	FTA
			Mongolia*	Feb. 2015*	EPA	China*	Jun. 2015*	FTA	

* Signed dates

1 EPA: Economic Partnership Agreement

2 CEPA: Comprehensive Economic Partnership Agreement

Source

Ministry of Commerce of China, Ministry of Foreign Affairs of Japan, Ministry of Trade, Industry and Energy of ROK

FTA of the Three Countries (Under Negotiation)

(As of July, 2015)

Current Situation	China (6) *			Japan (11)			ROK (6)		
	Partner	Negotiation Launch	Type of Agreement	Partner	Negotiation Launch	Type of Agreement	Partner	Negotiation Launch	Type of Agreement
Under Negotiation	GCC	Jul. 2004	FTA	ROK** (Suspended)	Oct. 2003	EPA	Japan**	Dec. 2003	FTA/EPA
	Norway	Apr. 2007	FTA	GCC** (Postponed)	Sep. 2006	FTA	Mexico**	Dec. 2007	FTA
	RCEP	Mar. 2013	FTA	RCEP	May. 2013	EPA	GCC**	Jul. 2008	FTA
	CJK	Mar. 2013	FTA	EU	Apr. 2013	EPA	Indonesia**	Jul. 2012	CEPA
	Sri Lanka	Sep. 2014	FTA	CJK	Mar. 2013	FTA	CJK	Mar. 2013	FTA
	ASEAN FTA Upgrade Negotiations	Aug. 2014	FTA	Columbia	Dec. 2012	EPA	RCEP	May. 2013	FTA
				Canada	Nov. 2012	EPA			
				TPP	Mar. 2010	EPA			
				ASEAN (Services and Investment chapters, substantial conclusion)					
				Turkey	Dec. 2014	EPA			

* Indicate the date of the first negotiation.

** Suspended with Japan since 2004, with Mexico since 2008, with GCC since 2009, and with Indonesia since 2014.

Source

Ministry of Commerce of China, Ministry of Foreign Affairs of Japan, Ministry of Trade, Industry and Energy of ROK

7-3 FTA of the Three Countries (Under Discussion)

(As of July, 2015)

Current Situation	China (5)		Japan (0)		ROK (5)	
	Partner	Type of Agreement	Partner	Type of Agreement	Partner	Type of Agreement
Under Discussion	India	FTA			MERCOSUR	FTA
	Columbia	FTA			Israel	FTA
	Maldives	FTA			Central America	FTA
	Georgia	FTA			Malaysia	FTA
	Moldova	FTA			Equador	FTA
Source	Ministry of Commerce of China, Ministry of Foreign Affairs of Japan, Ministry of Trade, Industry and Energy of ROK					

Finance



- 8-1.** Bond Market (LCY Bonds)
- 8-2.** Size and Composition of LCY Bond Markets of CJK
- 8-3.** Bond Market (FCY Bonds)
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- 8-11.** Changes in CJK Financial Conditions

8-1 Bond Market (LCY Bonds)

Unit: Billion US \$

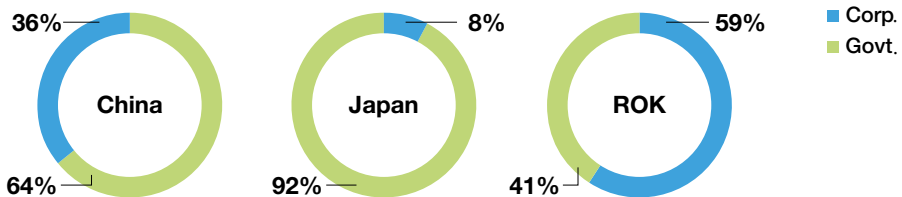
Size of LCY Bond Market in USD									
	China			Japan			ROK		
	Govt.	Corp.	Total	Govt.	Corp.	Total	Govt.	Corp.	Total
2005	835.2	64.5	899.2	6,301.6	743.7	7,045.3	392.9	360.8	753.7
2006	1,078.7	105.6	1,184.2	6,389.4	706.9	7,096.3	480.6	441.2	921.8
2007	1,531.7	156.6	1,688.3	6,874.2	773.1	7,647.3	498.3	529.1	1,027.4
2008	1,956.7	257.5	2,214.2	8,564.4	963.2	9,527.6	368.5	448.2	816.7
2009	2,112.7	454.9	2,567.7	8,655.6	964.2	9,619.7	444.1	572.2	1,016.3
2010	2,407.8	646.9	3,054.7	10,605.8	1,112.6	11,718.4	492.2	656.9	1,149.1
2011	2,540.2	918.8	3,459.0	11,556.1	1,151.9	12,708.0	509.6	719.4	1,229.0
2012	2,772.7	1,038.7	4,081.4	10,668.2	988.1	11,656.3	572.2	898.8	1,471.0
2013	3,072.6	1,651.7	4,724.3	9,203.4	786.6	9,990.0	626.1	1,014.9	1,641.0
2014	3,334.7	1,857.8	5,192.5	8,292.2	679.7	8,971.9	701.2	1,001.6	1,702.8

* This indicator shows the absolute amount of local currency (LCY) bonds outstanding in USD, categorized as government and corporates. Government bonds include obligations of the central government, local governments, the central bank, and state-owned entities. Corporates comprise both public and private companies including financial institutions and international organizations. Financial institutions comprise both private and public sector banks and other financial institutions.

Source Asian Bonds Online

Bond Market (LCY Bonds) 2014

Billion US \$



8-2

Size and Composition of LCY Bond Markets of CJK

Unit: Billion US \$

		China			Japan			ROK		
		Total	Government	Corporate	Total	Government	Corporate	Total	Government	Corporate
2Q-2013	Amount	4,445	2,905	1,540	10,408	9,567	840	1,445	558	887
	% share	100.0	65.4	34.6	100.0	91.9	8.1	100.0	38.6	61.4
	% of GDP	50.6	33.1	17.5	174.6	160.5	14.1	118.0	45.6	72.4
1Q-2014	Amount	4,702	3,056	1,646	10,239	9,443	796	1,648	635	1,012
	% share	100.0	65.0	35.0	100.0	92.2	7.8	100.0	38.6	61.4
	% of GDP	50.6	32.9	17.7	219.3	202.3	17.1	121.4	46.8	74.6
2Q-2014	Amount	4,911	3,164	1,747	10,496	9,689	807	1,759	692	1,066
	% share	100.0	64.9	35.1	100.0	92.3	7.7	100.0	39.4	60.6
	% of GDP	51.2	33.3	18.0	219.7	202.8	16.9	129.6	51.0	78.6
Growth Rate (LCY-base%)	2Q-2013 (y-o-y)	18.1	8.7	41.1	3.8	4.6	-4.4	10.6	6.0	13.8
	2Q-2014 (y-o-y)	10.8	10.1	12.1	3.1	3.5	-1.9	7.8	9.9	6.5
Growth Rate (US\$-base%)	2Q-2013 (y-o-y)	22.3	12.5	46.1	-16.5	-15.8	-23.0	11.0	6.3	14.1
	2Q-2014 (y-o-y)	9.6	8.9	10.9	0.9	1.3	-4.0	21.7	24.1	20.2

y-o-y = year-on-year.

Notes: 1. For the People's Republic of China, 2Q14 corporate bonds outstanding data based on AsianBondsOnline estimates. For Singapore, corporate bonds outstanding data based on AsianBondsOnline estimates.

2. Corporate bonds include issues from financial institutions.

3. Bloomberg LP end-of-period LCY—US\$ rates are used

Source: Asian Development Bank (ADB)

8-3 Bond Market (FCY Bonds)

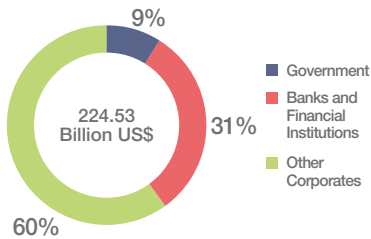
Unit: Billion US \$

FCY Bonds in USD (local sources)												
	China				Japan				ROK			
	Government	Banks and Financial Institutions	Other Corporates	Total	Government	Banks and Financial Institutions	Other Corporates	Total	Government	Banks and Financial Institutions	Other Corporates	Total
2005	13.7	5.05	5.84	24.59	24.73	18.17	15.93	58.84	19.31	21.56	31.12	71.99
2006	14.09	5.26	9.38	28.74	23.68	38.08	15.52	77.28	20.78	27.98	33.58	82.33
2007	14.84	5.11	15.02	34.97	25.63	43.66	11.89	81.19	22.59	41.42	32.51	96.51
2008	13.44	4.9	19.81	38.15	25.51	44.24	9.92	79.67	18.65	40.68	39.09	98.43
2009	12.08	6.03	21.65	39.76	28.21	49.92	8.96	87.09	21.86	52.15	45.89	119.9
2010	12.41	15.14	36.65	64.2	31.44	48.22	9.38	89.04	20.86	57.13	51.43	129.42
2011	14.44	25.92	51.69	92.05	32.78	55.78	14.25	102.81	23.41	62.56	55.52	141.5
2012	20.72	45.99	81.66	148.37	18.82	51.27	25.62	95.71	23.63	68.26	58.9	150.79
2013	19.99	69.41	135.14	224.53	39.08	62.12	26.58	127.79	25.9	71.07	66.53	163.5
2014	-	-	-	-	41.81	93.82	21.87	157.5	29.78	68.11	61.43	159.32

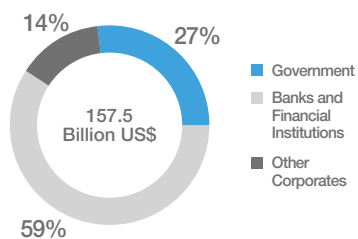
* This indicator presents the total USD equivalent of bonds outstanding denominated in foreign currency (FCY). It provides a breakdown of the size of FCY-denominated bonds outstanding by government, banks and financial institutions, and corporates. FCY bonds outstanding includes offshore bond issuance.

Source Asian Bonds Online

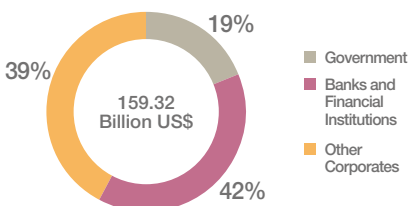
2013 China Bond Market (FCY Bonds)



2014 Japan Bond Market (FCY Bonds)



2014 ROK Bond Market (FCY Bonds)



8-4 Mutual Holdings of Bonds among CJK

Unit: Million US\$

Long-term Bonds											
Issuer	Buyer	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Japan	ROK	5,233.9	5,321.3	5,752.2	8,117.3	11,129.5	8,440.1	11,649.5	17,056.1	18,755.9	20,194.9
	China	528.9	424.7	414.4	458	495.9	521.4	494.1	515.6	574.2	1156.7
ROK	Japan	494.6	583.5	1036.9	540.4	220.5	686	1219.6	744.7	384.8	1155.7
	China	68.6	86.4	198.3	201.8	145.8	141	145.9	218.1	272.1	377.9
Short-term Bonds											
Issuer	Buyer	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Japan	ROK	39.4	70	3	27.2	132.2	43.4	550.3	538.8	271.7	218.5
	China	-	-	-	-	-	-	-	21.7	25.4	210.7
ROK	Japan	-	1.3	15.5	13	-	-	-	-	-	-
	China	-	-	-	-	7.6	6.6	20.8	13.8	20.1	20.2
Source		Asia Regional Integration Center Database; IMF CPIS Database									

8-5 Stock Market Capitalization

Unit: Million US \$ (% of GDP)

Stock Market Capitalization and % of GDP			
	China	Japan	ROK
2005	780,762 (34.6)	4,736,512 (103.6)	718,180 (85.0)
2006	2,426,325 (89.4)	4,726,268 (108.5)	835,188 (87.8)
2007	6,226,305 (178.2)	4,453,474 (102.2)	1,123,632 (107.1)
2008	2,793,612 (61.8)	3,220,485 (66.4)	494,630 (53.1)
2009	5,007,646 (100.3)	3,377,892 (67.1)	836,461 (100.3)
2010	4,762,836 (80.3)	4,099,591 (74.7)	1,089,216 (107.3)
2011	3,389,098 (46.3)	3,540,684 (60.3)	994,301 (89.1)
2012	3,697,376 (44.9)	3,680,982 (61.8)	1,180,473 (104.5)

* China: CSI300, Japan: NIKKEI225, ROK: KOSPI

Source

Asian Development Bank

Stock Market Price Growth Rate

Unit: %

Growth Rates of Stock Market Price Index			
	China	Japan	ROK
2004	0.0	21.8	22.6
2005	-22.1	13.5	28.5
2006	41.4	28.2	26.3
2007	161.1	2.3	26.7
2008	-27.7	-28.6	-10.6
2009	-10.2	-26.9	-7.0
2010	3.4	2.0	23.6
2011	-5.7	-7.2	12.9
2012	-16.8	-6.5	-2.6
2013	-1.1	46.0	1.5

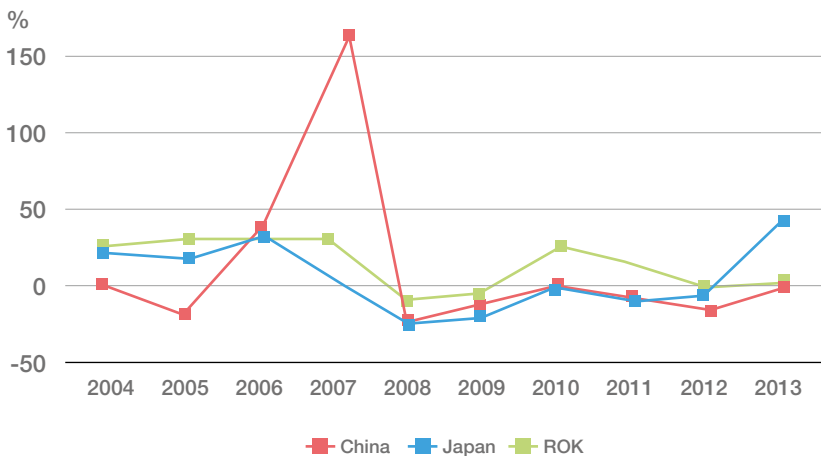
* China: CSI300, Japan: NIKKEI225, ROK: KOSPI

** 0.0: Magnitude is less than half of unit employed.

Source

Asian Development Bank

Stock Market (Growth Rate)



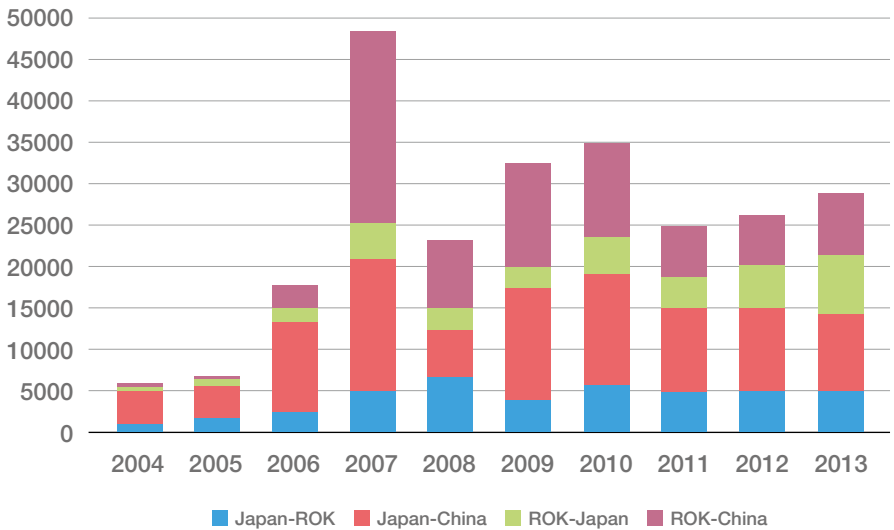
8-7 Mutual Holdings of Stocks among CJK

Unit: Million US\$

Issuer	Buyer	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Japan	ROK	943.1	2,064.9	3,358.2	5,618.4	6,798.9	4,507.9	5,815.8	4,684.8	5,200.1	5,534.0
	China	4,194.5	3,649.6	9,852.9	15,042.7	5,498.6	12,600.5	13,480.6	10,112.9	9,823.8	8,998.1
ROK	Japan	525.1	877.7	1,808.4	4,812.7	2,356.8	2,547.6	4,459.3	4,121.9	5,055.6	6,719.2
	China	53.3	15.0	2,887.7	23,066.1	8,770.0	12,428.4	10,638.7	6,661.8	6,358.4	7,424.9
Source		Asia Regional Integration Center Database; IMF CPIS Database									

Mutual Holdings of Stocks among CJK

Million US\$



8-8

Correlation of Stock Market Returns among CJK

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
China-Japan	-0.14	0.61	0.70	-0.77	-0.15	0.59	0.92	0.83	0.57	0.53
China-ROK	-0.14	0.85	0.62	-0.76	0.53	0.87	0.95	0.86	0.69	0.49
Japan-ROK	0.96	0.81	0.73	0.92	0.15	0.82	0.98	0.92	0.56	0.70

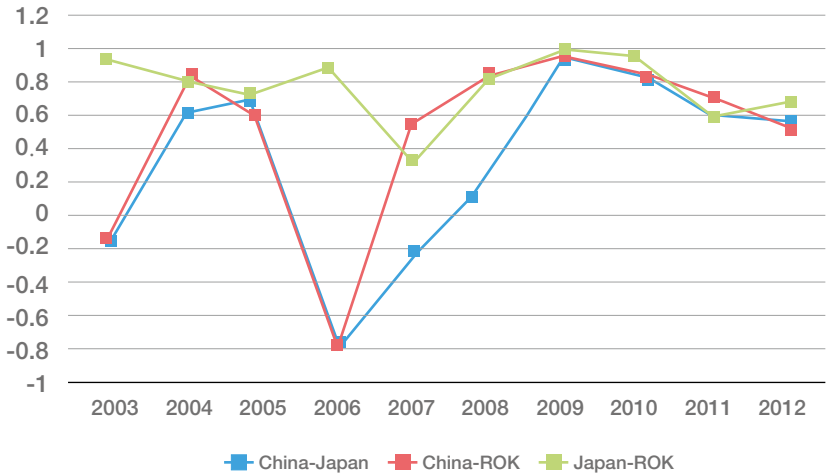
Notes: Stock market returns correlation is a pair-wise measure of co-movement in the stock markets.

A higher correlation indicates a higher degree of integration in the markets.

Source

Asia Regional Integration Center Database

Correlation of Stock Market Returns among CJK, 2002-2012



8-9

Money Market Interest Rate Correlation among CJK

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
China-Japan	-0.22	0.21	0.20	0.78	0.52	0.01	-0.62	-0.79	-0.46	0.65
China-ROK	N/A	0.57	-0.45	0.76	0.46	0.58	0.49	0.08	0.53	0.78
Japan-ROK	N/A	-0.01	0.08	0.97	0.86	0.32	0.16	0.33	-0.54	0.91

Notes: Money market rate correlation is a pair-wise measure of co-movement in the money markets.

A higher correlation indicates a higher degree of integration in the markets.

Source

Asia Regional Integration Center Database

8-10

Money Market Interest Rate Differential among CJK

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
China-Japan	2.92	3.34	2.67	2.37	2.47	2.49	0.91	2.04	4.88	3.98
China-ROK	-2.60	-2.32	-2.17	-2.55	-2.49	-3.02	-3.17	-0.25	1.79	1.04
Japan-ROK	5.52	5.66	4.84	4.91	4.96	5.51	4.08	2.29	3.09	2.93

Notes: Money market rate differential is a pair-wise measure of convergence.

It is the difference between the rates in two money markets.

A lower differential indicates a higher degree of convergence.

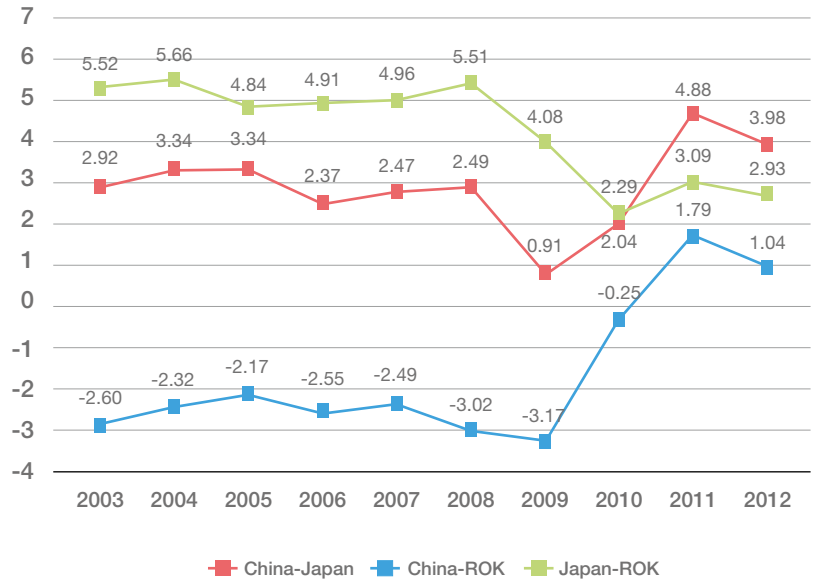
Source

Asia Regional Integration Center Database

Money Market Interest Rate Correlation among CJK



Money Market Interest Rate Differential among CJK



8-11

Changes in CJK Financial Conditions

	2-Year Government Bond (bps)	10-Year Government Bond (bps)	5-Year Credit Default Swap (bps)	Equity Index (%)	FX Rate (%)
China	31	-25	-18	8.3	1
Japan	-1	-12	-14	5.6	-0.4
ROK	-35	-50	-9	3.8	4.2

bps = basis points, FX = foreign exchange

Notes: 1. Data reflect changes between 1 April 2014 and 31 August 2014.

2. A positive (negative) value for the FX rate indicates the appreciation (depreciation) of the local currency against the US dollar.

Sources: Bloomberg LP and Institute of International Finance.

Resources and Environment

9

- 9-1.** Land
- 9-2.** Water
- 9-3-1.** Total Production of Energy
- 9-3-2.** Total Primary Energy
- 9-4.** Coal
- 9-5.** Petroleum
- 9-6.** Dry Natural Gas
- 9-7-1.** Electricity
- 9-7-2.** Electricity Production
- 9-8.** Renewables
- 9-9.** Nuclear Power
- 9-10.** CO2 Emission from Consumption of Energy
- 9-11.** CO2 Emission from Energy Consumption Ranking

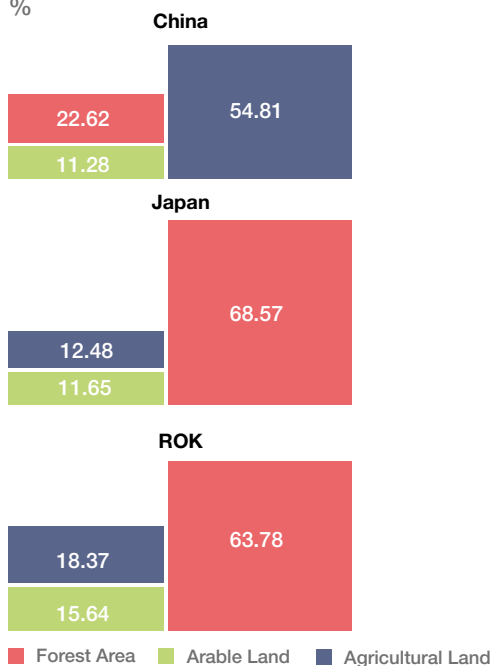
9-1 Land

Unit: % of Total Land Area

	Forest Area				Arable Land				Agricultural Land			
	World	China	Japan	ROK	World	China	Japan	ROK	World	China	Japan	ROK
1990	32.06	16.74	68.43	66.04	10.78	13.19	13.08	20.25	39.31	53.87	15.61	22.59
2000	31.42	18.85	68.25	65.19	10.62	12.59	12.27	17.81	37.98	55.60	14.43	20.45
2010	31.03	22.03	68.52	64.00	10.60	11.42	11.75	15.50	37.67	54.81	12.60	18.24
2012	30.97	22.62	68.57	63.78	10.76	11.28	11.65	15.64	37.68	54.81	12.48	18.37
Source	World Bank											

Land in 2012

%

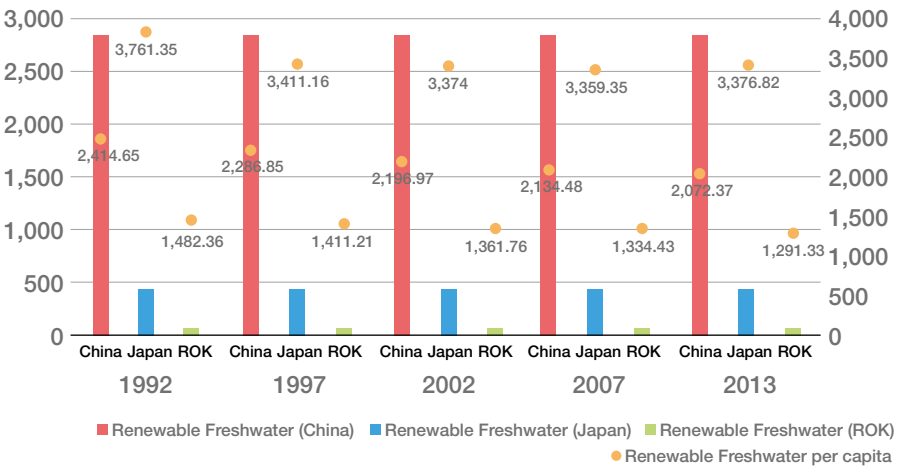


	Renewable freshwater				Renewable freshwater per capita				Freshwater withdrawals			
	Unit: Billion Cubic Meters				Unit: Cubic Meters				Unit: Billion Cubic Meters (% of Internal Resources)			
	World	China	Japan	ROK	World	China	Japan	ROK	World	China	Japan	ROK
1992	42,749.00	2,813	430	64.85	8,049.51	2,414.65	3,761.35	1,482.36	n/a	500.0 (17.8)	91.4 (21.3)	n/a
1997	42,885.55	2,813	430	64.85	7,408.55	2,286.85	3,411.16	1,411.21	n/a	525.4 (18.7)	89.07 (20.7)	n/a
2002	43,498.55	2,813	430	64.85	7,039.74	2,196.97	3,374.00	1,361.76	n/a	525.4 (18.7)	90.04 (20.9)	25.47 (39.3)
2007	43,503.96	2,813	430	64.85	6,623.36	2,134.48	3,359.35	1,334.43	n/a	554.1 (19.7)	90.04 (20.9)	25.47 (39.3)
2013	42,920.96	2,813	430	64.85	6,055.06	2,072.37	3,376.82	1,291.33	3,906.74 (9.1)	554.1 (19.7)	90.04 (20.9)	25.47 (39.3)

Source: World Bank

Water

Unit: Billion Cubic Meters/Cubic Meters



9-3
1

Total Production of Energy

Unit: Million Tons of Oil Equivalent (Mtoe)

	China**	Japan	ROK	World	OECD Total	EU27 Total
2007	1,915.30	90.63	42.60	12,109.60	3,848.47	861.93
2008	1,995.49	88.69	44.73	12,385.25	3,860.99	855.72
2009	2,092.95	93.97	44.31	12,292.67	3,790.50	819.18
2010	2,262.09	99.51	44.92	12,868.13	3,877.49	836.36
2011	2,432.56	51.67	46.99	13,201.76	3,853.90	804.93

* Total production of energy refers to the quantities of fuels extracted from the ground after the removal of inert matter or impurities (e.g. sulphur from natural gas). For non-combusted energy such as nuclear, hydro and solar, the primary energy equivalent is calculated using the physical energy content method, which expresses the energy content of each source in million tons of oil equivalent (Mtoe) energy.

** People's Republic of China and Hong Kong China combined

CO2 Emissions from Energy Consumption

Unit: Million Tons of CO₂

	China**	Japan	ROK	World	OECD Total	EU27 Total
2007	6,359.87	1,233.49	490.43	29,268.20	13,120.22	3,932.26
2008	6,532.25	1,147.17	501.77	29,477.87	12,788.79	3,860.67
2009	6,838.58	1,089.09	515.62	28,966.35	12,021.07	3,560.26
2010	7,294.11	1,138.01	564.47	30,509.40	12,510.04	3,667.45
2011	7,999.57	1,186.04	587.73	31,342.27	12,340.78	3,543.73

* CO2 Emissions from fuel combustion only. Emissions are calculated using IEA's energy balances and the Revised 1996 IPCC Guidelines.

** People's Republic of China and Hong Kong China combined

Source

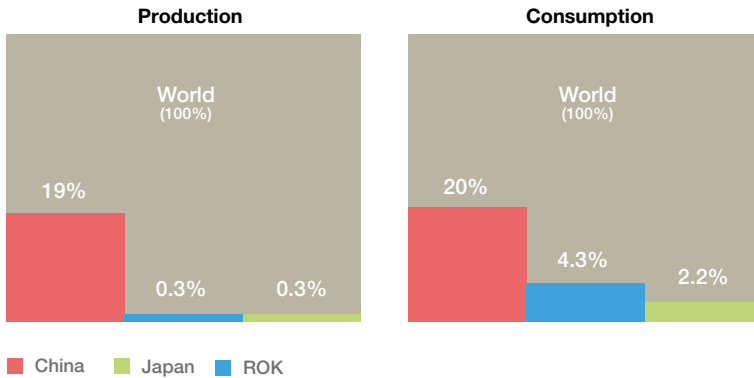
Statistics Report, International Energy Agency (IEA)

9-3 2 Total Primary Energy

Unit: Quadrillion Btu

	Production				Consumption			
	World	China	Japan	ROK	World	China	Japan	ROK
2008	483.560	72.993	3.750	1.544	485.718	78.939	21.813	9.896
2009	480.930	77.278	3.955	1.523	480.005	85.989	20.602	9.979
2010	505.368	84.229	4.204	1.540	508.120	94.918	21.793	10.824
2011	518.546	90.567	2.963	1.612	520.272	103.651	20.915	11.310
2012	537.266	101.781	1.568	1.558	524.076	105.882	20.306	11.520
Source	U.S. Energy Information Administration (EIA)							

Total Primary Energy Production & Consumption in 2012



9-4 Coal

Unit: Thousand Short Tons

	Production ¹				Consumption			
	World	China	Japan	ROK	World	China	Japan	ROK
2007	7,235,883	2,954,542	0	3,181	7,187,350	2,890,335	207,581	98,226
2008	7,470,959	3,099,061	0	3,057	7,335,637	3,017,004	203,803	110,522
2009	7,601,609	3,301,803	0	2,777	7,415,826	3,320,623	181,497	114,150
2010	7,999,455	3,560,635	0	2,297	7,885,054	3,605,856	206,125	127,414
2011	8,443,803	3,878,012	0	2,297	8,284,548	3,954,134	192,852	140,087
2012	8,687,297	4,017,920	0	2,306	8,186,103	3,887,264	201,932	137,599

1. Total Primary Coal Production

	Import				Export			
	World	China	Japan	ROK	World	China	Japan	ROK
2007	1,050,101	56,236	208,984	94,082	1,061,623	75,409	1,528	0
2008	1,048,871	44,467	205,919	107,062	1,067,376	63,384	1,044	0
2009	1,041,146	138,890	182,089	109,874	1,044,448	25,235	1,033	0
2010	1,160,797	179,870	206,701	125,808	1,211,835	27,181	723	0
2011	1,216,060	200,722	194,071	138,165	1,286,721	27,546	1,081	0
2012	1,341,977	317,918	203,469	135,702	1,408,940	10,224	1,630	0

CO2 Emission from Coal Consumption (Thousand Metric Tons)

	World	China	Japan	ROK
2007	12,117,788	4,810,682	445,835	213,441
2008	12,354,784	5,019,671	436,440	240,307
2009	12,426,118	5,534,877	389,015	248,422
2010	13,312,045	6,018,328	442,431	277,132
2011	13,937,970	6,612,722	413,138	304,677
2012	13,787,914	6,512,700	432,554	299,210

Source U.S. Energy Information Administration (EIA)

Unit: Thousand Barrels per Day

	Total Oil Supply				Total Petroleum Consumption			
	World	China	Japan	ROK	World	China	Japan	ROK
2008	86,569.9	4,039.3	134.0	41.7	86,045.7	7,697.1	4,769.6	2,142.3
2009	85,738.8	4,074.5	137.4	54.7	84,971.7	8,069.8	4,362.8	2,188.5
2010	88,158.4	4,372.7	142.6	58.5	88,157.4	8,938.4	4,429.2	2,268.5
2011	88,583.2	4,370.0	136.5	59.8	89,105.3	9,504.0	4,442.4	2,259.4
2012	90,484.9	4,421.4	127.7	74.8	90,340.4	10,175.1	4,694.8	2,321.6
2013	90,922.5	4,501.4	138.2	78.9	91,194.8	10,480.0	4,530.8	2,324.0
2014	93,002.7	4,526.3	137.2	78.9	91,194.8	10,480.0	4,530.8	2,324.0

* Crude oil is a mixture of hydrocarbons that exists as a liquid in natural underground reservoirs and remains liquid when brought to the surface. Petroleum products are produced from the processing of crude oil at petroleum refineries and the extraction of liquid hydrocarbons at natural gas processing plants. Petroleum is the broad category that includes both crude oil and petroleum products.

	Crude Oil Imports				Crude Oil Exports			
	World	China	Japan	ROK	World	China	Japan	ROK
2008	47,112.06	3,577.86	4,224.87	2,358.53	43,139.21	84.76	0	4.49
2009	45,728.31	4,081.89	3,724.33	2,348.53	43,006.41	103.68	0	6.17
2010	46,040.17	4,753.64	3,754.63	2,401.05	43,596.14	60.60	0	9.14
2011	45,862.06	5,051.66	3,643.71	2,540.23	43,781.72	177.18	0	14.01
2012	45,362.97	4,081.89	3,723.63	2,573.74	42,845.01	103.68	0	6.86
2013	n/a	n/a	3,691.77	2,478.95	n/a	n/a	n/a	5.58

CO2 Emission from Petroleum Consumption (Thousand Metric Tons)

	World	China	Japan	ROK
2008	11,077,063	995,196	574,346	206,405
2009	11,015,937	1,107,277	511,228	203,965
2010	11,392,364	1,160,415	518,504	216,627
2011	11,604,006	1,256,644	534,116	248,105
2012	11,694,761	1,305,654	567,825	252,863
2013	11,830,500	1,337,642	548,212	253,338

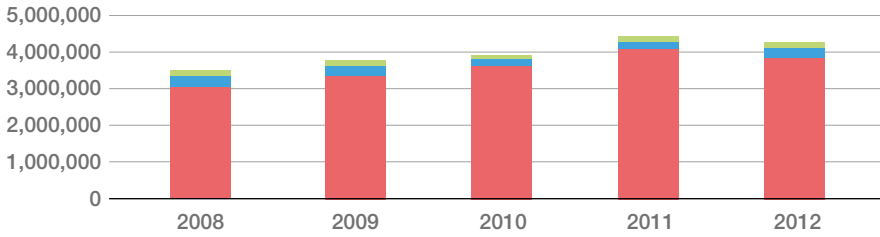
Source

U.S. Energy Information Administration (EIA)

Coal Consumption

Unit: Thousand Short Tons

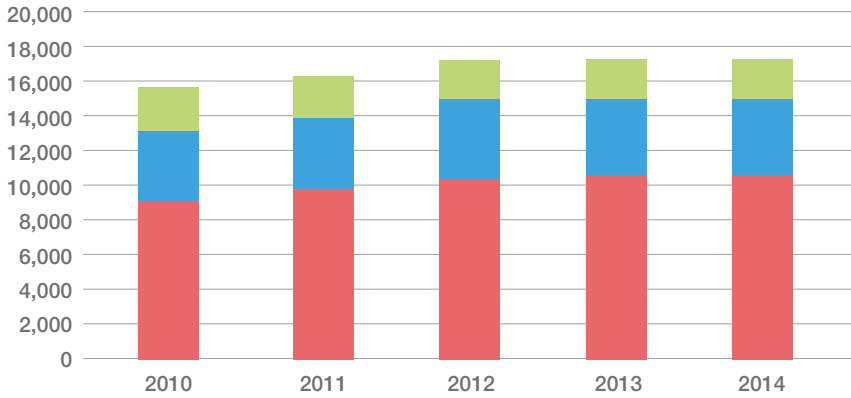
China Japan ROK



Total Petroleum Consumption

Unit: Thousand Barrels per Day

China Japan ROK



Dry Natural Gas

Unit: Billion Cubic Feet

	Production				Consumption			
	World	China	Japan	ROK	World	China	Japan	ROK
2008	107,761	2,685	185	16	108,917	2,726	3,667	1,265
2009	105,179	2,975	176	27	105,326	3,125	3,653	1,215
2010	112,574	3,334	171	33	113,858	3,769	3,861	1,524
2011	116,255	3,629	174	36	116,395	4,624	4,462	1,641
2012	119,454	3,666	168	37	119,696	5,074	4,472	1,793
2013	121,283	3,986	161	18	121,357	5,760	4,492	1,877

	Import				Export			
	World	China	Japan	ROK	World	China	Japan	ROK
2008	35,361	159	3,369	1,314	34,318	119	0	0
2009	32,368	264	3,281	1,191	31,936	113	0	0
2010	35,942	577	3,489	1,547	35,405	142	0	0
2011	37,430	1,108	4,113	1,650	37,111	113	0	0
2012	36,962	1,510	4,295	1,688	37,409	102	0	0
2013	37,434	1,871	4,337	1,877	38,302	97	0	0

CO2 Emission from Natural Gas Consumption (Thousand Metric Tons)

	World	China	Japan	ROK
2008	6,212,754	151,698	205,466	75,059
2009	5,993,566	173,941	204,671	72,153
2010	6,450,845	209,759	216,351	90,260
2011	6,615,006	257,328	250,015	97,672
2012	6,780,279	281,319	250,079	106,572
2013	6,863,934	319,366	250,982	111,548

*Dry natural gas does not contain any hydrocarbon liquids.

Source

U.S. Energy Information Administration (EIA)

9-7
1

Electricity

Unit: Billion KWh

	Total Net Generation				Total Electric Power Consumption			
	World	China	Japan	ROK	World	China	Japan	ROK
2008	19,157.25	3,280.67	1,012.92	419.069	17,453.361	3,054.08	961.606	402.963
2009	19,093.33	3,507.51	985.64	426.005	17,388.145	3,270.31	935.114	409.235
2010	20,436.99	4,051.88	1,044.19	468.269	18,679.866	3,781.54	994.80	450.235
2011	21,182.42	4,547.14	1,032.17	489.729	19,396.644	4,264.31	983.16	472.299
2012	21,531.71	4,768.317	966.43	499.672	19,710.362	4,467.923	921.04	482.38
	Import				Export			
	World	China	Japan	ROK	World	China	Japan	ROK
2008	616.86	3.842	0	0	615.151	16.644	0	0
2009	588.396	6.006	0	0	582.467	17.386	0	0
2010	593.188	5.545	0	0	587.77	19.059	0	0
2011	649.905	6.562	0	0	648.076	19.32	0	0
2012	682.034	6.874	0	0	668.269	17.652	0	0
2013	n/a	7.400	0	0	n/a	18.7	0	0
Source	U.S. Energy Information Administration (EIA)							

Electricity Production

Unit: Billion KWh

	Nuclear Power					Total Fossil Fuels			
	World	China	Japan	ROK		World	China	Japan	ROK
2008	2,597.338	65.325	241.254	144.255	2008	12,844.239	2,618.558	667.588	271.137
2009	2,560.020	65.713	263.053	141.123	2009	12,673.787	2,802.516	616.34	281.016
2010	2,629.709	70.962	280.250	141.890	2010	13,642.337	3,210.000	650.06	320.911
2011	2,517.745	82.569	156.182	147.763	2011	14,264.164	3,664.000	759.481	335.454
2012	2,344.806	92.652	17.230	143.550	2012	14,497.706	3,675.000	828.834	350.105
	Renewables(Hydroelectric Power)					Renewables(Geothermal Power)			
	World	China	Japan	ROK		World	China	Japan	ROK
2008	3,180.140	579.335	75.684	3.039	2008	63.388	0.144	2.750	0
2009	3,234.064	609.484	76.127	2.785	2009	65.540	0.153	2.886	0
2010	3,422.213	713.790	81.390	3.645	2010	66.297	0.162	2.632	0
2011	3,489.016	690.605	82.365	4.552	2011	67.256	0.162	2.676	0
2012	3,646.064	856.350	74.731	3.929	2012	68.192	0.153	2.609	0
	Renewables(Wind Power)					Renewables(Solar, Tide and Wave Power)			
	World	China	Japan	ROK		World	China	Japan	ROK
2008	220.298	14.800	2.946	0.436	2008	220.298	14.800	2.946	0.436
2009	276.045	26.900	3.616	0.685	2009	276.045	26.900	3.616	0.685
2010	341.582	44.622	3.962	0.817	2010	341.582	44.622	3.962	0.817
2011	446.427	73.200	4.345	0.858	2011	446.427	73.200	4.345	0.858
2012	520.001	95.978	4.838	0.917	2012	520.001	95.978	4.838	0.917
	Renewables(Biomass and Waste Power)								
	World	China	Japan	ROK					
2008	264.852	2.354	22.434	0.667					
2009	285.263	2.351	21.446	0.715					
2010	325.849	11.406	23.454	1.107					
2011	359.792	34.000	23.146	1.209					
2012	384.217	44.668	33.227	1.174					

*Dry natural gas does not Contain any hydrocarbon liquids.

Source	U.S. Energy Information Administration (EIA)
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9-8 Renewables

Unit: Billion Kilowatthours

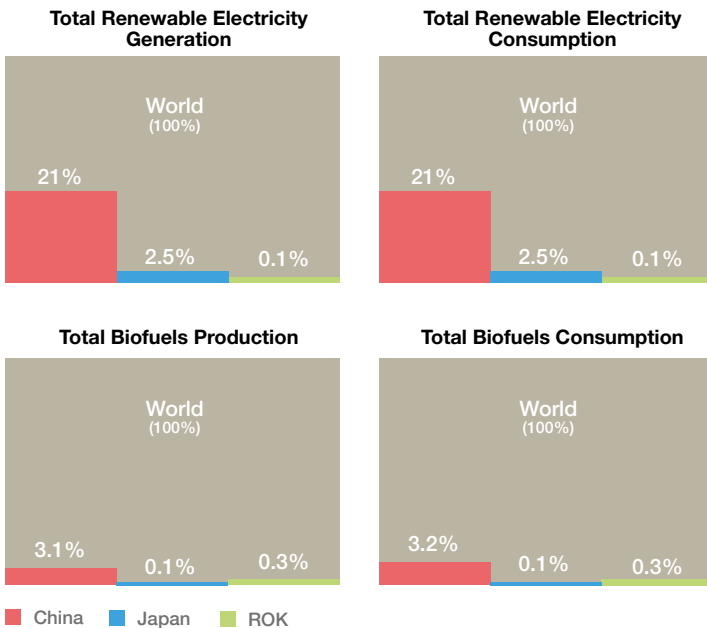
	Total Renewable Electricity Generation				Total Renewable Electricity Consumption			
	World	China	Japan	ROK	World	China	Japan	ROK
2008	3,740.598	596.785	106.065	4.427	3,740.598	596.785	106.065	4.427
2009	3,880.737	639.280	106.833	4.751	3,880.737	639.280	106.833	4.751
2010	4,187.615	770.919	115.238	6.341	4,187.615	770.919	115.238	6.341
2011	4,423.522	800.572	117.692	7.536	4,423.522	800.572	117.692	7.536
2012	4,714.827	1,003.515	122.368	7.123	4,714.827	1,003.515	122.368	7.123

Unit: Thousand Barrels Per Day

	Total Biofuels Production				Total Biofuels Consumption			
	World	China	Japan	ROK	World	China	Japan	ROK
2008	1,477.321	39.400	0.103	3.200	1,349.8	39.4	0.3	3.2
2009	1,634.905	47.734	0.414	5.000	1,588.3	47.7	0.4	5.0
2010	1,866.392	46.458	1.034	6.500	1,774.7	46.5	0.7	6.6
2011	1,915.800	53.541	0.638	6.300	1,828.9	53.5	1.1	6.5
2012	1,901.348	58.900	0.672	7.040	1,866.2	58.9	1.2	6.5

Source U.S. Energy Information Administration (EIA)

Renewables in 2012



9-9 Nuclear Power (2014)

		China	Japan	ROK
Nuclear Electricity Production (GWh)		130,580	0	149,165
Nuclear Share in Electricity Production (%)		2.39	0.00	30.42
Under Operation	Electrical Capacity (MW)	23,025	40,290	21,667
	Number of Reactors	27	43	24
Under Construction	Electrical Capacity (MW)	23,738	2,650	5,420
	Number of Reactors	24	2	4
Shutdown	Permanent	0	16	0
	Long-term	0	1	0
Energy Availability (%)		86	63.4	86.5

* World Nuclear Power :2,346,190 GWh (TBC)

Source

International Atomic Energy Agency (IAEA)

9-10 CO2 Emission from Consumption of Energy

Unit: Million Metric Tons

Total CO2 Emission				
	World	China	Japan	ROK
2008	29,644.60	6,166.57	1,216.25	521.770
2009	29,435.62	6,816.10	1104.914	524.439
2010	31,154.84	7,388.50	1,177.290	584.018
2011	32,154.99	8,126.69	1,200.270	650.454
2012	32,310.29	8,106.43	1,259.060	657.093

Unit: Metric Tons per Person

Per Capita CO2 Emission				
	World	China	Japan	ROK
2008	4.418	4.680	9,352	10.785
2009	4.336	5.150	8.652	10.811
2010	4.538	5.560	9.230	12.008
2011	4.632	6.080	9.420	13.341

Source

U.S. Energy Information Administration (EIA)

9-11

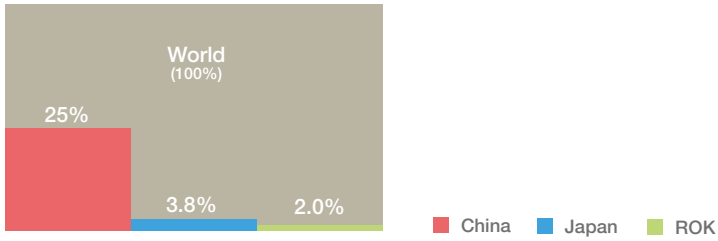
CO2 Emission from Energy Consumption Ranking (2012)

Unit: Million Metric Tons

Total CO2 Emission		
	World	32,310.287
1	China	8,106.43
2	USA	5,270.422
3	India	1,830.938
4	Russia	1,781.72
5	Japan	1,259.058
6	Germany	788.321
7	ROK	657.093
8	Iran	603.586
9	Saudi Arabia	582.67
10	Canada	550.829
Source	U.S. Energy Information Administration (EIA)	

CO2 Emission (2012)

Total CO2 Emission



Transport and Logistics

10

10-1. Air Transport: Freight and Passengers Carried

10-2. Container Port Traffic

10-3. Road and Rail

10-4. Vehicle Ownership Rate

10-1

Air Transport: Freight and Passengers Carried

Unit: Million Ton-km

Air Transport: Freight			
	China	Japan	ROK
2008	11,386	8,173	8,727
2009	11,976	10,486	15,163
2010	17,194	7,699	12,943
2011	16,765	6,546	12,382
2012	15,569	7,046	12,291
2013	16,054	7,716	11,350
2014	17,823	8,662	11,047

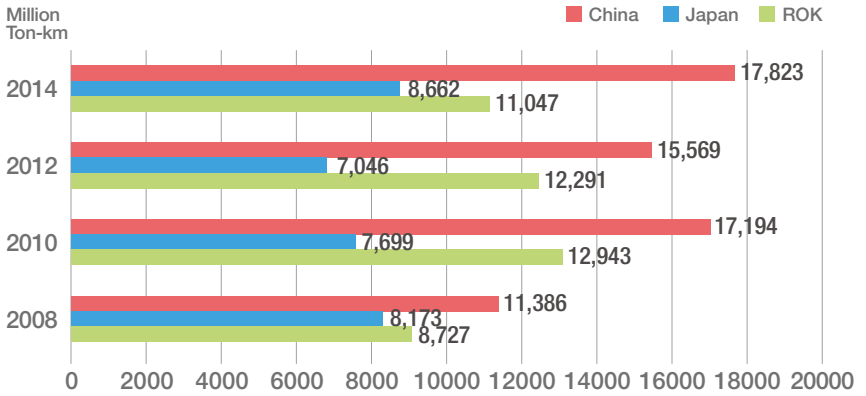
* Air freight is the volume of freight, express, and diplomatic bags carried on each flight stage (operation of an aircraft from takeoff to its next landing), measured in metric tons times kilometers traveled.

Air Transport: Passengers Carried

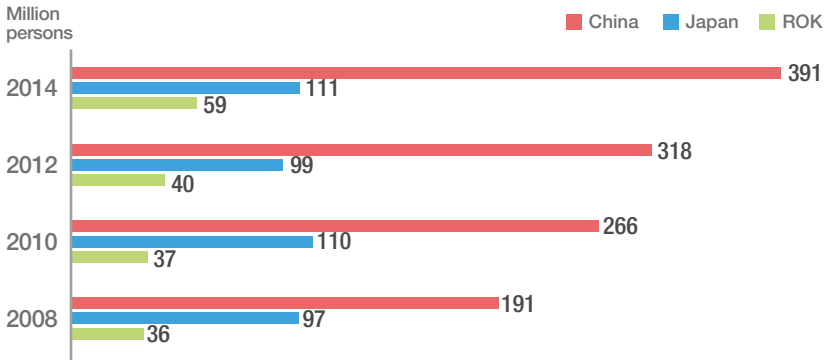
Unit: Persons

	China	Japan	ROK
2008	191,001,220	97,022,471	36,077,655
2009	229,062,099	86,896,527	34,168,590
2010	266,293,020	109,617,021	36,987,982
2011	292,160,158	89,788,818	39,911,750
2012	318,475,924	98,907,859	39,969,577
2013	352,795,296	107,573,000	54,561,562
2014	390,878,784	110,544,000	59,067,351
Source	World Bank		

Air Transport: Freight



Air Transport: Passengers Carried



10-2 Container Port Traffic

Unit: TEU (20 Foot Equivalent Units)

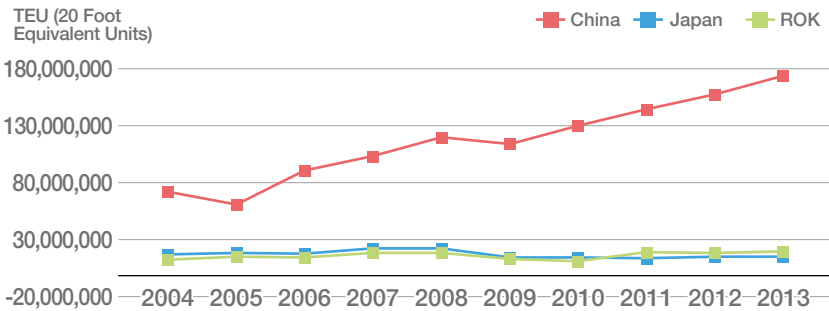
	China	Japan	ROK
2004	74,725,444	16,436,146	14,363,194
2005	67,245,263	17,055,082	15,113,275
2006	84,810,503	18,469,710	15,513,935
2007	103,823,024	19,164,522	17,086,133
2008	115,941,970	18,943,606	17,417,723
2009	108,799,934	16,285,918	15,699,663
2010	130,290,443	18,098,346	18,542,804
2011	144,641,878	19,422,156	20,833,508
2012	160,058,524	20,115,479	21,609,746
2013	174,080,330	19,688,382	22,582,700

* Port container traffic measures the flow of containers from land to sea transport modes and vice versa.

** TEU is a unit of cargo capacity based on the volume of a 20-foot-long (6.1m) intermodal container.

Source World Bank

Container Port Traffic



Road												
	Network(Km)			Road Density(Km of Road Per 100sq. km of Land Area)			Paved Road (% of Total Road)			Goods Transported (Million Ton-km)		
	China	Japan	ROK	China	Japan	ROK	China	Japan	ROK	China	Japan	ROK
2007	3,583,715	327,752	103,019	37	87	103	49.6	78.3	78.3	1,135,470	354,800	-
2008	3,730,164	331,071	104,236	39	88	105	53.5	78.5	78.5	3,286,819	346,420	12,546
2009	3,860,823	333,574	104,983	40	88	105	58.3	79.2	79.3	3,718,882	334,667	12,546
2010	4,008,229	336,578	105,565	42	89	106	60.9	-	79.8	4,338,967	254,078	-
2011	4,106,387	339,038	105,931	43	90	106	63.7	-	80.4	5,137,474	-	-

Rail									
	Rail Lines(Km)			Passengers Carried (Million Passenger-km)			Goods Transported (Million Ton-km)		
	China	Japan	ROK	China	Japan	ROK	China	Japan	ROK
2007	63,637	20,050	3,399	689,618	252,579	31,596	2,211,246	23,145	10,927
2008	60,809	20,048	3,381	772,834	255,865	32,025	2,511,804	23,032	11,566
2009	65,491	20,036	3,378	787,890	253,555	31,298	2,523,917	22,100	9,273
2010	66,239	20,035	3,379	791,158	244,235	33,027	2,451,185	20,432	9,452
2011	66,050	20,140	3,637	815,699	244,591	21,603	2,562,635	20,255	9,996
2012	66,298	20,140	3,650	795,639	244,591	21,603	2,518,310	20,255	9,996

* Total road network includes motorways, highways, and main or national roads, secondary or regional roads, and all other roads in a country. A motorway is a road designed and built for motor traffic that separates the traffic flowing in opposite directions.

** Rail lines are the length of railway route available for train service, irrespective of the number of parallel tracks.

Source World Bank

10-4

Vehicle Ownership Rate

Unit: Per Thousand Persons

	Motor Vehicles			Passenger Cars		
	China	Japan	ROK	China	Japan	ROK
2006	28	594	329	18	447	240
2007	32	592	339	22	450	250
2008	37	592	346	27	451	257
2009	47	593	355	34	452	267
2010	58	590	363	44	454	276
2011	69	588	370	54	455	284

* Motor vehicles include cars, buses and freight vehicles, but do not include two-wheelers. Population refers to the mid-year population in the year for which data are available.

** Passenger cars refer to road motor vehicles, other than two-wheelers, intended for the carriage of passengers and designed to seat no more than nine people (including the driver).

Vehicles

Unit: Per Km of Load

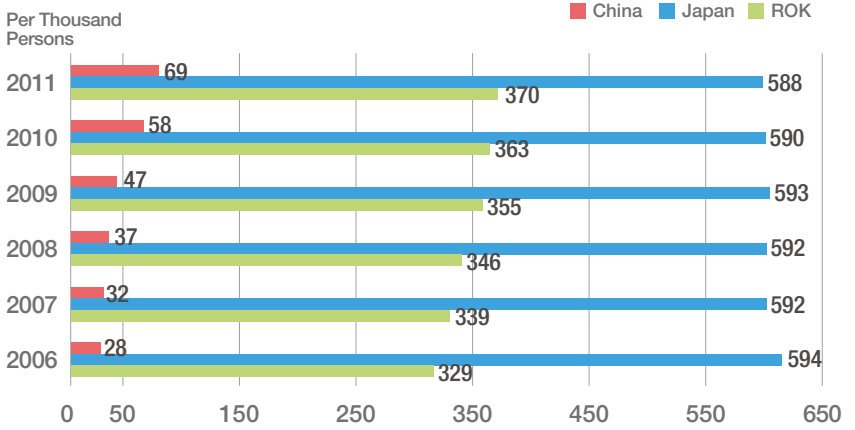
	China	Japan	ROK
2006	10	233	156
2007	12	231	159
2008	13	227	160
2009	16	224	164
2010	19	223	170
2011	23	222	174

* Vehicles per kilometer of road include cars, buses and freight vehicles, but do not include two-wheelers. Roads refer to motorways, highways, main or national roads, secondary or regional roads, and other roads. A motorway is a road specially designed and built for motor traffic that separates the traffic flowing in opposite directions.

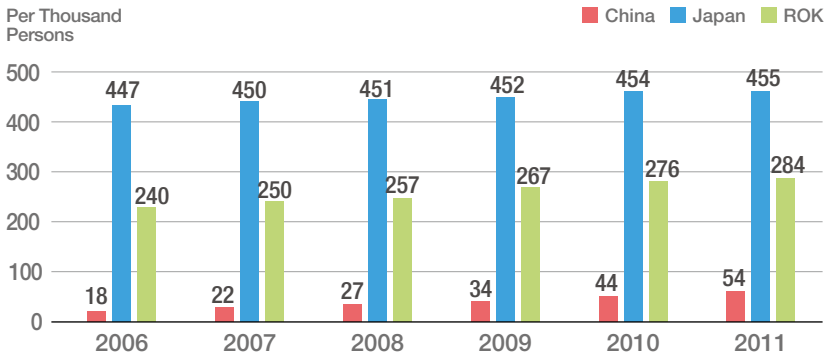
Source

World Bank

Motor Vehicles Ownership Rate



Passenger Cars Ownership Rate





Trilateral
Cooperation
Secretariat

Movement of People



11-1. Tourist Arrivals

11-2. Resident Foreign Nationals
among the Three Countries

11-3. Foreign Students among
the Three Countries

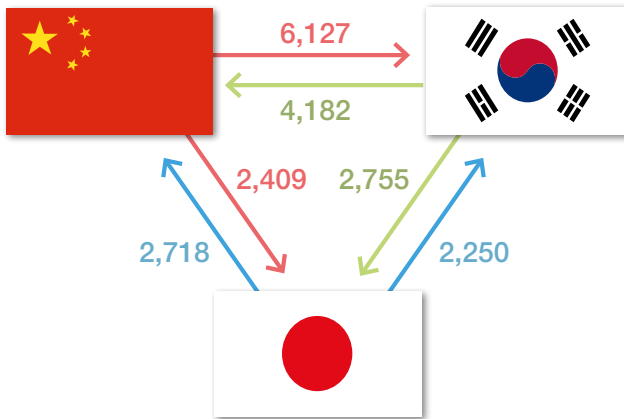
11-4. International Marriage

11-1 Tourist Arrivals

Unit: Thousand Persons

	To China			To Japan			To ROK		
	World	Japan	ROK	World	China	ROK	World	Japan	China
2008	24,325	3,446	3,960	8,351	1,000	2,382	6,891	2,378	1,168
2009	21,938	3,317	3,198	6,790	1,006	1,587	7,818	3,053	1,342
2010	26,127	3,731	4,076	8,611	1,413	2,440	8,798	3,023	1,875
2011	27,112	3,658	4,185	6,219	1,044	1,658	9,795	3,289	2,220
2012	27,192	3,658	4,070	8,358	1,425	2,044	11,140	3,519	2,837
2013	26,290	2,878	3,969	10,364	1,314	2,456	12,176	2,748	4,327
2014	26,361	2,718	4,182	13,414	2,409	2,755	14,202	2,280	6,127
Source	National Bureau of Statistics of China, Japan National Tourist Organization, Korea Tourism Organization								

Tourist Arrivals in 2014 (thousand persons)



Resident Foreign Nationals among the Three Countries

Unit: Persons

Number of Resident Foreign Nationals						
	China		Japan		ROK	
	Japan	ROK	China	ROK	Japan	China
2008	-	-	655,377	589,239	556,517	51,763
2009	-	-	680,518	578,495	555,082	47,718
2010	66,159	120,750	687,156	565,989	608,881	48,905
2011	-	-	674,879	545,401	677,954	58,169
2012	-	-	652,595	530,048	698,444	57,174
2013	-	-	649,078	519,740	778,113	56,081

1. The figures in 2010 are from the Census and are available every ten years.
2. The number includes foreign students and the short time residents.
3. The number of Chinese in ROK includes Korean-Chinese as well as overseas Chinese

Source National Bureau of Statistics of China, Statistics of Foreign Registration, Ministry of Justice of Japan, Statistics Bureau of Japan, 'KIS Statistics', Korea Immigration Service (KIS)

11-3

Foreign Students among the Three Countries

Unit: Persons

Number of Foreign Students						
	In China		In Japan		In ROK	
	Japanese	Korean	Chinese	Korean	Chinese	Japanese
2008	16,733	66,806	72,766	18,862	44,746	3,324
2009	-	-	79,082	19,605	53,461	3,931
2010	16,808	64,957	86,173	20,202	57,783	3,876
2011	17,961	62,442	87,533	17,640	60,935	4,645
2012	21,126	63,488	86,324	16,651	55,427	4,093
2013	-	-	81,884	15,304	52,313	4,503
2014	15,057	62,923	94,399	15,777	50,336	3,958

Unit: %

% of Total Foreign Students						
	In China		In Japan		In ROK	
	Japanese	Korean	Chinese	Korean	Chinese	Japanese
2008	7.5	29.9	58.8	15.2	70	5.2
2009	-	-	59.6	14.8	70.5	5.2
2010	6.3	23.7	60.8	14.2	68.9	4.6
2011	6.1	21.3	63.4	12.8	68.1	5.2
2012	6.4	19.3	62.7	12.1	63.8	4.7
2013	-	-	60.4	11.3	60.9	5.2
2014	4	16.7	51.3	8.6	59.3	4.7

Source

Ministry of Education of China ,Japan Student Services Organization, Statistics Korea (KOSIS)

International Marriage

Unit: Persons

Japan							
	Total	Japanese Male			Japanese Female		
		Female			Male		
		Foreign	China	ROK	Foreign	China	ROK
2008	36,969	28,720	12,218	4,558	8,249	1,005	2,107
2009	34,393	26,747	12,733	4,113	7,646	986	1,879
2010	30,207	22,843	10,162	3,664	7,364	910	1,982
2011	25,934	19,022	8,104	3,098	6,912	850	1,837
2012	23,657	17,198	7,166	3,004	6,459	820	1,823
2013	21,488	15,442	6,253	2,734	6,046	718	1,689
Source	Statistics Bureau of Japan, National Institute of Population and Social Security Research						

ROK							
	Total	Korean Male			Korean Female		
		Female			Male		
		Foreign	China	Japan	Foreign	China	Japan
2008	36,204	28,163	13,203	1,162	8,041	2,101	2,743
2009	33,300	25,142	11,364	1,140	8,158	2,617	2,422
2010	34,235	26,274	9,623	1,193	7,961	2,293	2,090
2011	29,762	22,265	7,549	1,124	7,497	1,869	1,709
2012	28,325	20,637	7,036	1,309	7,688	1,997	1,582
2013	25,963	18,307	6,058	1,218	7,656	1,727	1,366

* The data of China is not available.

1. ROK includes Korean with permanent residence in Japan.

Source	Statistics Korea
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Trilateral
Cooperation
Secretariat

Others

12

- 12-1.** Fortune Global 500 Enterprises
- 12-2.** Human Development Index (HDI)
- 12-3.** UN Peacekeeping Force
- 12-4.** Competitiveness Index
- 12-5.** Number of Patent Applications
- 12-6.** Broadband Internet Subscribers
- 12-7.** Telecommunications Penetration Rates

12-1

Fortune Global 500 Enterprises (2014)

2014: China (95 Enterprises), Japan (57 Enterprises), ROK (17 Enterprises) Unit: Million US \$

Rank	Company	Revenues	Profits	Country
3	Sinopec Group	457201.1	8932.1	China
4	China National Petroleum	432007.7	18504.8	China
7	State Grid	333386.5	7982.8	China
9	Toyota Motor	256454.8	18198.2	Japan
13	Samsung Electronics	208938.4	27245.3	ROK
23	Japan Post holdings	152125.8	4782.1	Japan
25	Industrial & Commercial Bank of China	148802.6	42718.1	China
38	China Construction Bank	125397.7	34912.5	China
45	Honda Motor	118210.5	5730.7	Japan
47	Agricultural Bank of China	115392.1	27050.0	China
51	JX Holdings	11014.1	1068.5	Japan
52	China State Construction Engineering	110811.6	1853.2	China
53	Nippon Telegraph & Telephone	109054.3	5844.1	Japan
55	China Mobile Communications	107647.3	9197.9	China
59	Bank of China	105622.6	25520.5	China
61	Nissan Motor	104635.8	3883.3	Japan
64	SK Holdings	102122.1	258.2	ROK
76	Noble Group	97878.3	243.5	China
78	Hitachi	95988.2	2645.0	Japan
79	China National Offshore Oil	95971.5	7700.8	China
80	China Railway Construction	95746.8	986.5	China
85	SAIC Motor	92024.8	4034.1	China
86	China Railway Group	91152.6	1524.7	China
98	China Life Insurance	80909.4	594.8	China
100	Hyundai Motor	79766.1	7804.0	ROK
105	SONY	77532.3	-1281.4	Japan
106	Panasonic	77225.6	1202.2	Japan
107	Sinochem Group	75939.0	755.1	China
108	Mitsubishi	75755.4	4439.9	Japan
111	China FAW Group	75005.6	3263.6	China
113	Dongfeng Motor Group	74008.2	1448.4	China
115	China Southern Power Grid	72697.1	1325.5	China
122	China Development Bank	71305.6	12949.8	China
124	Marubeni	70429.5	2105.6	Japan

Rank	Company	Revenues	Profits	Country
128	Ping An Insurance	68508.8	4579.1	China
132	Nippon Life Insurance	68168.9	2467.1	Japan
133	China Minmetals	67440.2	402.0	China
135	Softbank	66546.0	5850.9	Japan
139	Tokyo Electric Power	66194.4	4378.5	Japan
143	China Resources National	65959.9	2029.5	China
145	Toshiba	64907.9	507.3	Japan
148	AEON	64240.5	458.1	Japan
152	China North Industries Group	62659.1	715.5	China
154	China Telecommunications	62046.8	1555.8	China
160	CITIC Group	61005.7	6154.3	China
164	Dai-ichi Life Insurance	60340.3	777.9	Japan
165	Shenhua Group	59823.0	5940.1	China
166	Pacific Construction Group	59622.2	2772.6	China
168	China Post Group	58964.6	4114.9	China
169	China South Industries Group	58837.1	22.6	China
173	Mitsui	57302.7	4214.0	Japan
176	Seven & I Holdings	56572.8	1764.9	Japan
177	POSCO	56520.8	1257.5	ROK
178	Aviation Industry Corp. of China	56472.1	746.4	China
183	Itochu	55209.0	3097.0	Japan
184	Nippon Steel & Sumitomo Metal	55062.1	2423.1	Japan
185	Tewoo Group	54963.7	227.9	China
187	China Communications Construction	54609.8	1335.8	China
194	LG Electronics	53118.3	161.5	ROK
199	Mitsubishi UFJ Financial Group	51667.5	9830.7	Japan
208	People's Insurance Co. of China	49563.6	1320.8	China
209	Hyundai Heavy Industries	49507.4	254.6	ROK
210	China United Network Communications	49399.2	560.0	China
211	Baosteel Group	49297.3	925.0	China
212	Korea Electric Power	49072.9	54.8	ROK
217	Bank of Communications	48321.2	10131.9	China
219	Meiji Yasuda Life Insurance	47727.8	2401.8	Japan
221	China Huaneng Group	47681.1	426.6	China

Rank	Company	Revenues	Profits	Country
222	Fujitsu	47538.4	485.2	Japan
225	Sumitomo Mitsui Financial Group	46334.9	8338.5	Japan
227	Aluminum Corp. of China	45445.7	-1142.9	China
231	Idemitsu Kosan	45103.6	362.3	Japan
245	MS&AD Insurance Group Holdings	43548.7	932.8	Japan
246	Kia Motors	43486.4	3487.3	ROK
248	Beijing Automotive Group	43323.9	918.2	China
249	KDDI	43258.0	3214.6	Japan
260	GS Caltex	41715.7	341.4	ROK
261	Tokio Marine Holdings	41586.0	1837.8	Japan
267	China National Building Materials Group	41027.9	435.3	China
268	Greenland Holding Group	41015.7	1331.3	China
269	Denso	40885.2	2868.7	Japan
271	Hebei Iron & Steel Group	40829.2	-138.2	China
273	Mitsubishi Electric	40470.3	1532.0	Japan
276	CHEMChina	39690.9	-139.4	China
277	Jardine Matheson	39465.0	1566.0	China
278	SINOMACH	39418.4	249.4	China
279	Shangdong Weiqiao Pioneering Group	39259.9	1102.9	China
285	Huawei Investment & Holding	38875.8	3402.3	China
286	Lenovo Group	38707.1	817.2	China
290	Shanxi Coking Coal Group	38398.1	74.7	China
292	Canon	38247.2	2362.5	Japan
295	Amer International Group	38030.2	833.3	China
297	China Guodian	37857.5	571.3	China
304	Jizhong Energy Group	37392.2	-254.8	China
305	Shangdong Energy Group	37362.9	223.0	China
308	Jiangsu Shagang Group	37095.3	172.9	China
309	Jinneng Group	37085.6	-2.4	China
310	Wuhan Iron & Steel	36927.8	12.2	China
313	Power China	36806.9	832.8	China
314	China National Aviation Fuel Group	36729.8	152.7	China
316	JFE Holdings	36602.3	1022.0	Japan
317	Bridgestone	36573.4	2071.1	Japan

Rank	Company	Revenues	Profits	Country
327	Bohai Steel Group	35795.6	64.3	China
328	Henan Energy & Chemical	35761.8	-372.1	China
330	China Minsheng Banking	35474.5	6876.2	China
331	Hanwha	35379.9	118.8	ROK
334	Mitsubishi Chemical Holdings	34925.1	321.9	Japan
338	Industrial Bank	34808.6	6702.7	China
340	Korea Gas	34774.9	-183.4	ROK
342	Sumitomo Life Insurance	34571.0	1224.9	Japan
345	Zhejiang Materials Industry Group	34500.7	59.2	China
348	Shougang Group	34292.2	-144.1	China
349	CEFC China Energy	34133.6	345.5	China
350	china Merchants Bank	34121.5	8415.7	China
354	China Metallurgical Group	33697.7	-754.4	China
355	Mitsubishi Heavy Industries	33435.4	1601.4	Japan
357	Sinopharm	33271.6	343.8	China
358	Kansai Electric Power	33214.7	-972.3	Japan
362	Sumitomo	33114.1	2226.6	Japan
363	Hutchison Whampoa	33035.2	4011.1	China
365	Xingxing CathayInternational Group	32789.8	385.8	China
366	Guangzhou Automobile Industry Group	32775.6	207.9	China
368	China Huadian	32548.7	800.7	China
369	Datong Coal Mine Group	32458.1	-267.2	China
372	Shanxi LuAn Mining Group	32332.4	-182.2	China
381	Jiangxi Copper	31638.1	92.8	China
382	China Electronics	31517.8	282.2	China
383	Shanghai Pudong Development Bank	31440.8	6655.7	China
384	China Pacific Insurance Group	31412.5	1506.2	China
386	Shanxi jincheng Anthracite Coal mining Group	31324.3	169.5	China
388	Hyundai Mobis	31244.5	3126.0	ROK
391	Yangquan Coal Industry Group	31193.5	-38.6	China
393	China Power Investment	31066.6	465.7	China
394	Kailuan Group	31062.9	-26.5	China
396	China Datang	30980.2	199.2	China
398	China Nonferrous Metal Mining (Group)	30903.7	-67.9	China

Rank	Company	Revenues	Profits	Country
400	Cosmo Oil	30863.6	43.4	Japan
401	COFCO	30748.0	1158.3	China
403	China Shipbuilding Industry	30478.8	1158.3	China
405	NEC	30376.1	336.8	Japan
406	NKSJ Holdings	30029.0	440.9	Japan
411	Medipal Holdings	29424.7	254.4	Japan
414	Suzuki Motor	29330.0	1072.9	Japan
416	Mizuho Financial Group	29224.7	6871.7	Japan
417	SHARP	29219.0	115.4	Japan
427	S-OIL	28467.1	264.6	ROK
428	Chubu Electric Power	28370.5	-652.1	Japan
431	Aisin Seiki	28171.1	699.3	Japan
432	Shanxi Yanchang Petroleum (Group)	28146.3	1580.7	China
442	China Railway Materials	27151.5	-1255.8	China
445	East Japan Railway	26980.3	1995.8	Japan
447	Daiwa House Industry	26954.4	1019.1	Japan
449	Mazda Motor	26873.7	1354.5	Japan
451	China Ocean Shipping	26805.5	-373.2	China
458	Samsung Life Insurance	26167.4	832.6	ROK
460	Samsung C&T	25977.3	221.5	ROK
464	Lotte Shopping	25774.8	720.3	ROK
465	China Energy Engineering Group	25769.0	256.4	China
466	Zhejiang Geely Holding Group	25767.5	118.1	China
469	China General Technology	25702.0	446.7	China
471	Sumitomo Electric Industries	25641.4	666.3	Japan
475	Ansteel Group	25230.5	-1031.4	China
476	Showa Shell Sekiyu	25151.9	618.0	Japan
478	Alfresa Holdings	24999.8	255.2	Japan
481	LG Display	24697.9	389.3	ROK
487	Fujifilm Holdings	24355.4	808.5	Japan
491	Agricultural Development Bank of China	24213.3	2299.2	China
494	Fuji Heavy Industries	24037.8	2062.4	Japan
495	Japan Tobacco	23955.0	4272.1	Japan

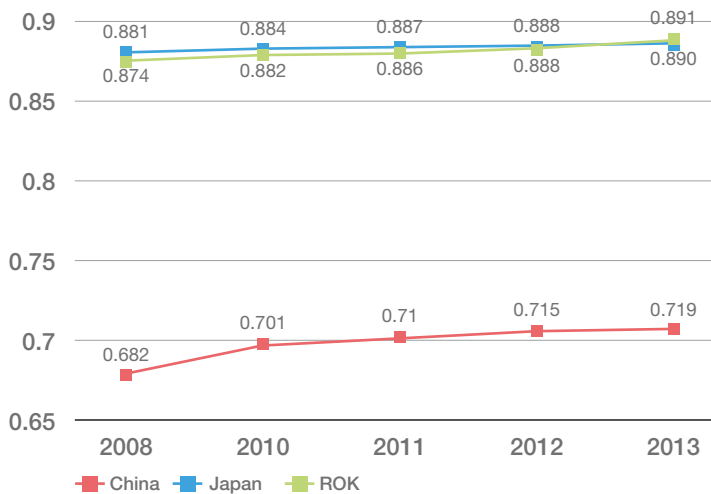
Human Development Index (HDI)

	China	Japan	ROK
2008	0.682	0.881	0.874
2010	0.701	0.884	0.882
2011	0.71	0.887	0.886
2012	0.715	0.888	0.888
2013	0.719	0.890	0.891

* The Human Development Index (HDI) is a summary measure of human development. It measures the average achievements in a country in three basic dimensions of human development: a long and healthy life (health), access to knowledge (education) and a decent standard of living (income). Data availability determines HDI country coverage. To enable cross-country comparisons, the HDI is, to the extent possible, calculated based on data from leading international data agencies and other credible data sources available at the time of writing.

Source United Nations Development Programme (UNDP)

Human Development Index (HDI)



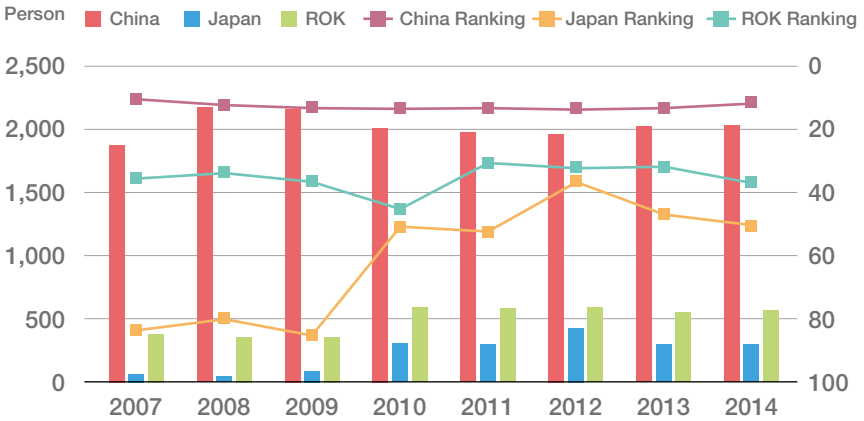
12-3 UN Peacekeeping Force

Unit: Persons (Ranking)

	China	Japan	ROK
2007	1,824 (13)	38 (82)	401 (37)
2008	2,146 (14)	38 (80)	394 (36)
2009	2,136 (15)	39 (85)	397 (38)
2010	2,039 (15)	266 (47)	633 (43)
2011	1,924 (16)	260 (48)	634 (33)
2012	1,930 (15)	488 (38)	636 (34)
2013	2,078 (15)	270 (48)	614 (34)
2014	2,181 (13)	271 (52)	612 (38)

Source United Nations Peacekeeping

UN Peacekeeping Force



Competitiveness Index

WCS (2014)		GCI (2014-2015)	
Country	Rank	Country	Rank
USA	1	Switzerland	1
Switzerland	2	Singapore	2
Singapore	3	U.S	3
Hong Kong SAR	4	Finland	4
Sweden	5	Germany	5
Germany	6	Japan	6
Canada	7	Hong Kong SAR	7
UAE	8	Netherlands	8
Denmark	9	U.K	9
Norway	10	Sweden	10
Japan	21	ROK	26
China	23	China	28
ROK	26		

* World Competitiveness Scoreboard (WCS) of International Institute for Management Development (IMD) means the state capability for remaining competition in business. Global Competitiveness Index (GCI) of World Economic Forum (WEF) means the state capability for improving GDP growth rate per capita.

Source

International Institute for Management Development (IMD)
World Competitiveness Yearbook; WEF

12-5

Number of Patent Applications

Unit: Number

Number of PCT Applications by Country				
	World	China	Japan	ROK
2005	136,749	2,503	24,870	4,686
2006	149,624	3,942	27,025	5,945
2007	159,927	5,455	27,743	7,045
2008	163,240	6,120	28,760	7,899
2009	155,402	7,900	29,802	8,035
2010	164,340	12,296	32,150	9,669
2011	182,434	16,402	38,875	10,447
2012	195,312	18,617	43,660	11,847
2013	205,300	21,516	43,918	12,386

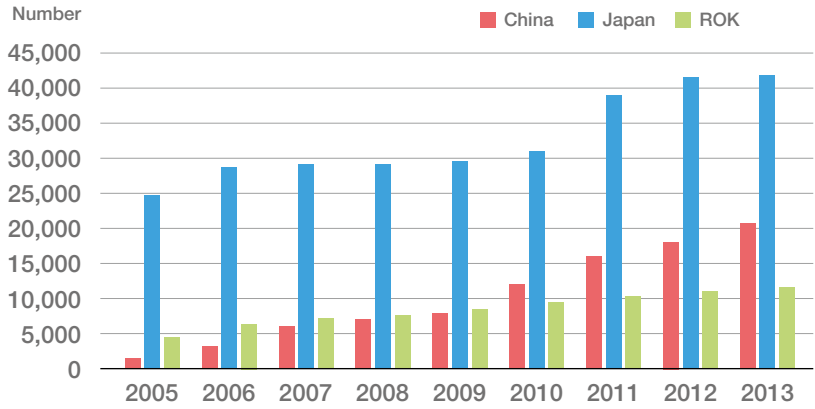
Unit: %

Share of Country in Total PCT Filing			
	China	Japan	ROK
2005	1.83	18.19	3.43
2006	2.63	18.06	3.97
2007	3.41	17.35	4.42
2008	3.75	17.62	4.84
2009	5.08	19.18	5.17
2010	7.48	19.56	5.88
2011	9	21.32	5.73
2012	9.6	22.5	6.1
2013	10.48	21.39	6.03

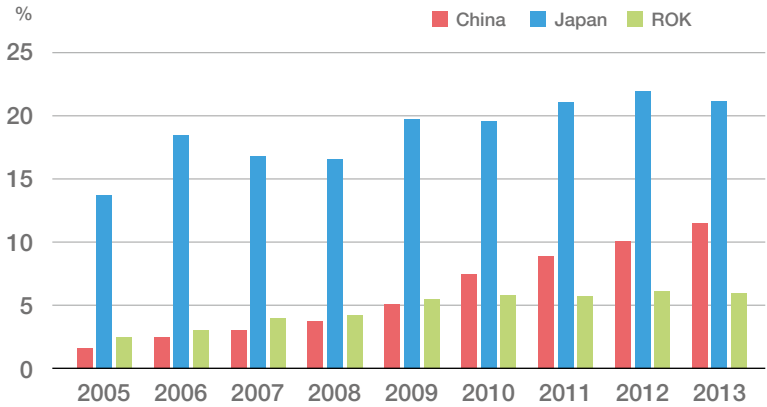
Source

Patent Cooperation Treaty (PCT) Yearly Review 2014 World Intellectual Property Organization (WIPO)

Number of PCT Applications



Share in Total PCT Filing



12-6

Broadband Internet Subscribers

Unit: Per Hundred Persons

	China	Japan	ROK
2004	1.90	15.43	25.46
2005	2.83	18.35	25.91
2006	3.83	20.80	29.69
2007	4.98	22.24	30.92
2008	6.17	23.67	32.33
2009	7.69	25.80	33.94
2010	9.30	26.77	35.48
2011	11.44	28.03	36.65
2012	12.72	28.39	37.25
2013	13.63	28.90	38.04

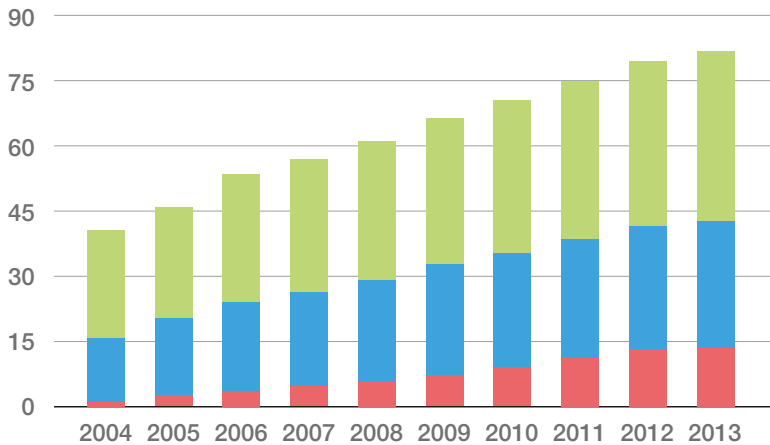
*Fixed broadband Internet subscribers are the number of broadband subscribers with a digital subscriber line, cable modem, or other high-speed technology.

Source World Bank

Broadband Internet Subscribers

per 100 persons

China Japan ROK



Telecommunications Penetration Rates

Unit: Per Hundred Persons

	Telephone Lines			Cell phone Subscriptions			Internet Users		
	China	Japan	ROK	China	Japan	ROK	China	Japan	ROK
2004	23.97	47.20	50.33	25.74	72.43	78.12	7.30	62.39	72.70
2005	26.80	45.93	50.81	30.09	76.34	81.50	8.52	66.92	73.50
2006	27.98	44.30	47.46	35.07	78.94	85.04	10.52	68.69	78.10
2007	27.67	40.50	48.44	41.42	84.84	93.41	16.00	74.30	78.80
2008	25.62	38.27	51.03	48.28	87.24	95.54	22.60	75.40	81.00
2009	23.50	52.78	56.07	55.97	91.90	99.96	28.90	78.00	81.60
2010	21.95	51.86	59.24	64.04	97.43	105.36	34.30	78.21	83.70
2011	21.16	51.12	60.90	73.19	104.95	108.50	38.30	79.05	83.80
2012	20.60	50.84	61.95	81.26	109.43	110.36	42.30	79.05	84.10
2013	19.00	50.00	62.00	89.00	115.00	111.00	45.80	86.30	84.80

* Telephone lines are fixed telephone lines that connect a subscriber's terminal equipment to the public switched telephone network and that have a port on a telephone exchange. Integrated services digital network channels and fixed wireless subscribers are included.

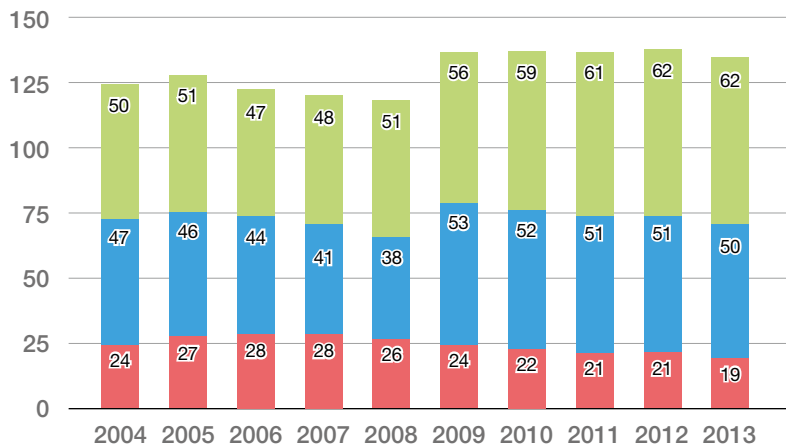
** Mobile cellular telephone subscriptions are subscriptions to a public mobile telephone service using cellular technology, which provide access to the public switched telephone network. Post-paid and prepaid subscriptions are included

*** Internet users are people with access to the worldwide network

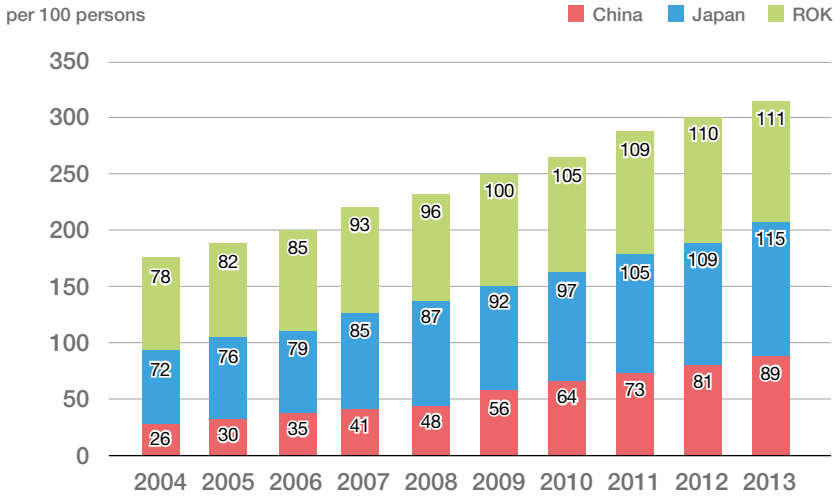
Source World Bank

Telephone Lines

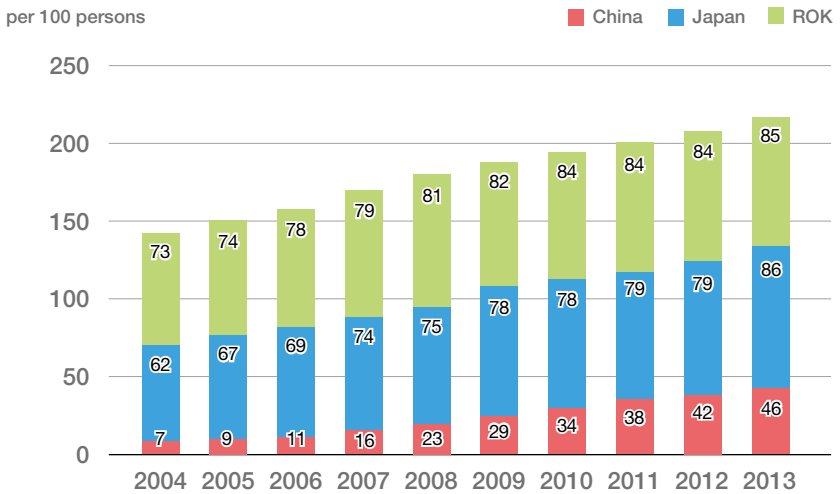
per 100 persons

■ China ■ Japan ■ ROK


Cell phone Subscriptions



Internet Users



Pursuant to the Agreement on the Establishment of the Trilateral Cooperation Secretariat (TCS) signed by the governments of the People's Republic of China (China), Japan and the Republic of Korea (ROK) in December 2010, the TCS was established as an international organization in September 2011 in Seoul.

The TCS is mandated to promote cooperation and co-prosperity among the three countries. The primary mandate is to support the trilateral consultative mechanisms including providing reference to newly established mechanisms. We also aim to become the hub of the trilateral cooperation by organizing multiple projects and events. Additionally, we conduct researches, explore new initiatives and promote public understanding of the trilateral cooperation.



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