

2013 Trilateral Statistics



Trilateral
Cooperation
Secretariat

2013 Trilateral Statistics

Foreword

I am more than delighted to present the 2013 edition of the Trilateral Statistics. In the past 15 years, China, Japan and the Republic of Korea (ROK) have witnessed the progress in trilateral cooperation. There are 18 ministerial meetings and over 50 working-level mechanisms among the three countries in various areas. Alongside all these mechanisms, the Trilateral Cooperation Secretariat (TCS) has been mandated to promote a better understanding of trilateral cooperation since its establishment in 2011. I believe, with direct demonstration of figures and graphs, the Trilateral Statistics can help people to realize how close the three countries are connected to each other.

The 2013 Trilateral Statistics contains facts and figures from economic interrelations among the three countries as well as each country's current economic circumstances. Indicators on macroeconomy, population, or resources offer an overall economic situation of the three countries. Indicators on intra-trade, investment or movement of people reveal the close connections and the driving force for regional integration.

I hope that the 2013 Trilateral Statistics will provide guidance for understanding the dynamic and close relations among the three countries.

February 2014
IWATANI Shigeo
Secretary-General
Trilateral Cooperation Secretariat

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Quick Look

- 1-1. 2012 at a Glance
- 1-2. Regional Economies (2012)

1-1. 2012 at a Glance

	China	Japan	ROK	Total
Land Area Square Km (%)	9,327,480 (7.2)	364,500 (0.3)	97,100 (0.1)	9,789,080 (7.6)
Population Thousand Persons (%)	1,350,695 (19.2)	127,561 (1.8)	50,004 (0.7)	1,528,260 (21.7)
Nominal GDP Billion US\$ (%)	8,358 (11.6)	5,960 (8.3)	1,130 (1.6)	15,448 (21.5)
GDP per Capita US\$	6,188	46,720	22,590	-
Inflation Rate (CPI) %	2.7	0.0	2.2	-
Exports Billion US\$	2,167	918	644	
Imports Billion US\$	1,935	1,022	622	
Trade Dependency %	49.9	32.6	113.8	-
Export %	26.36	15.43	56.99	-
Import %	23.54	17.17	56.81	-
Current Account Billion US\$	232	-104	22	-
Foreign Exchange Reserve Billion US\$ (Ranking)	3,331.1 (1)	1,227.1 (2)	323.2 (8)	4,857
Inward FDI Stocks (2011) Billion US\$ (%)	1,907 (9.1)	226 (1.1)	134 (0.6)	2,266 (10.8)
Outward FDI Stocks (2011) Billion US\$ (%)	425 (2.0)	963 (4.5)	331 (1.6)	1,718 (8.1)
Number of Inbound Travelers Thousand Persons	3,658 (Japanese) 4,070 (Korean)	1,425 (Chinese) 2,044 (Korean)	2,837 (Chinese) 3,519 (Japanese)	
Source	World Bank, International Monetary Fund (IMF), Organization for Economic Cooperation and Development (OECD) Statistics, Chinese National Tourism Administration, Japan National Tourism Organization, Korea Tourism Organization, Statistics Korea (KOSTAT)			

* Total =China+Japan+ROK

** % =Percentage of World

1-2. Regional Economies (2012)

	Nominal GDP Billion US\$ (%)	Population Million persons (%)	Exports *** Billion US\$	Imports *** Billion US\$	% of World Trade
China+Japan+ROK	15,447.68 (21.4)	1,528.3 (21.7)	3,813.82	3,547.18	16.6
ASEAN	2,254.55 (3.1)	608.4 (8.6)	1,462.92	1,327.68	6.3
ASEAN+3	17,702.23 (24.6)	2,136.7 (30.3)	5,276.74	4,874.86	22.9
APEC *	41,284.11 (57.4)	2,787.7 (39.6)	9,994.15	10,463.86	46.1
BRICS¹	14,851.83 (20.7)	2,980.8 (42.3)	3,732.10	3,413.16	16.1
EU	16,633.53 (23.1)	509.0 (7.2)	7,706.40	7,511.30	34.3
GCC **2	1,577.20 (2.2)	47.6 (0.7)	1,054.9	569.95	3.7
MERCOSUR³	3,179.04 (4.4)	279.8 (39.7)	499.2	474.70	2.2
NAFTA	18,684.18 (26.0)	469.6 (6.6)	3,000.70	3,604.69	14.9
World	71,918.40 (100.0)	7,046.4 (100.0)	22,534.82	21,862.96	100.0

*The data of APEC were sourced from StatsAPEC.

** The data of Nominal GDP and Population for GCC was sourced from the IMF World Economic Outlook, which are estimate values.

*** At current prices (2011). It does not include Myanmar's and Uruguay's data.

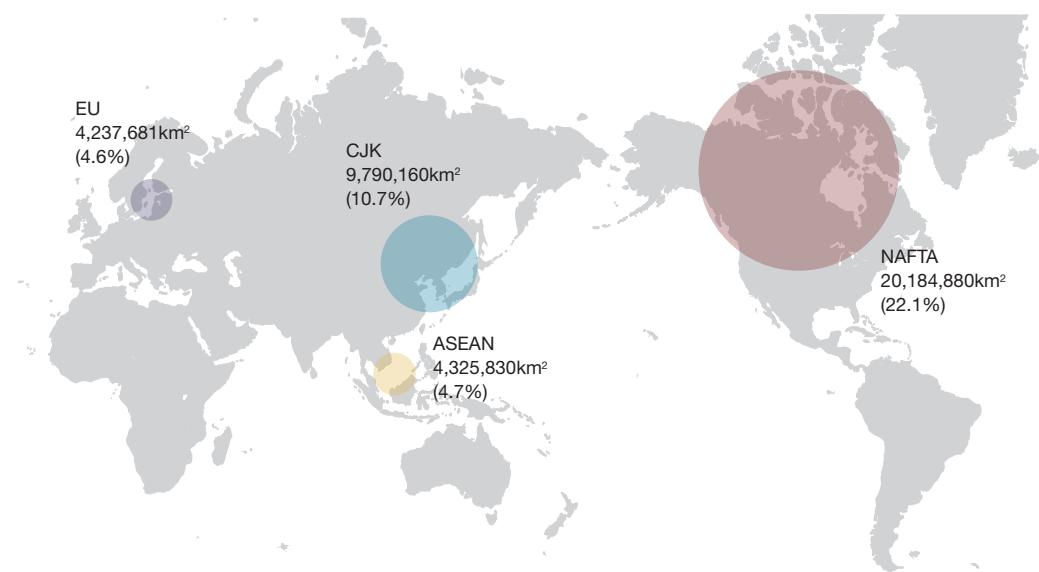
1. BRICS: Brazil, Russia, India, China, South Africa

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

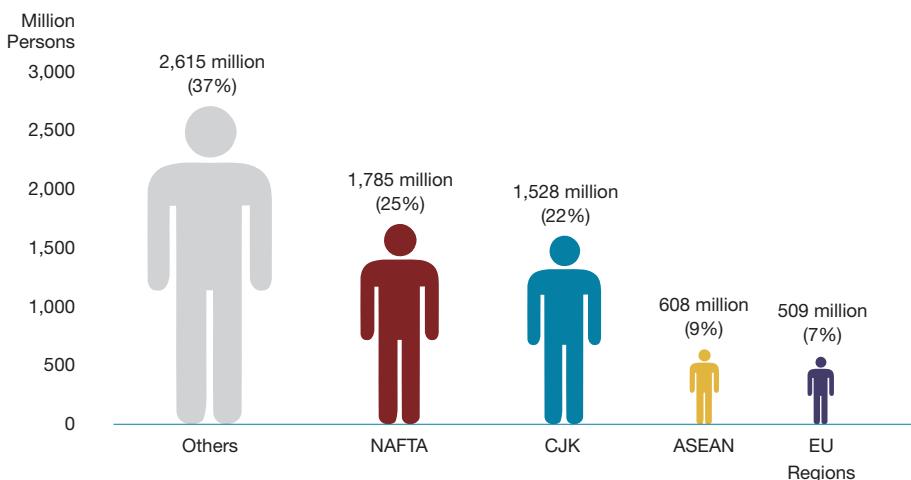
3. MERCOSUR(Southern Common Market): Argentina, Brazil, Paraguay, Uruguay, Venezuela

Source International Monetary Fund (IMF), The Statistics Korea, Bank of Korea

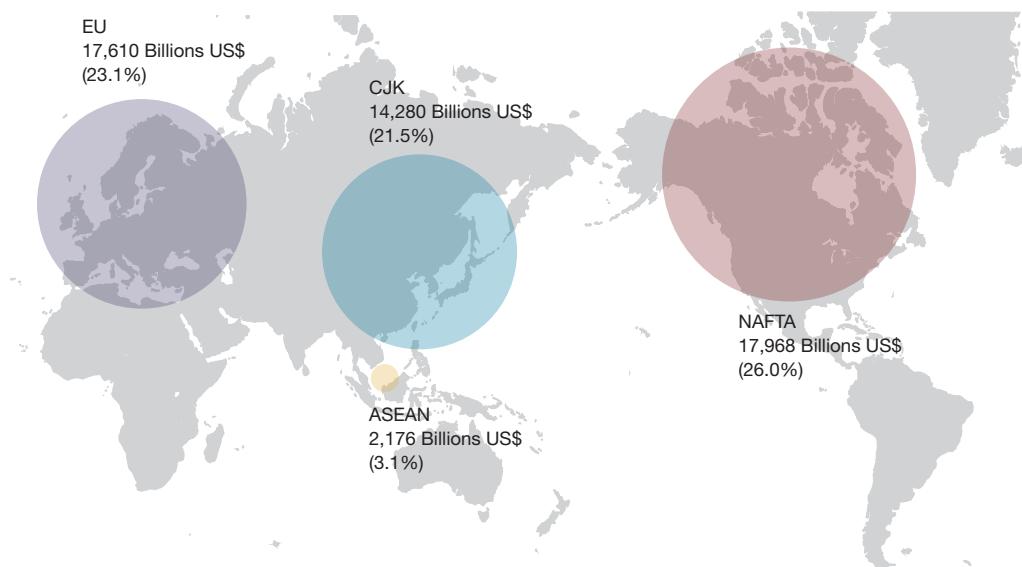
Land Area in 2012 (% of Total Land Area)



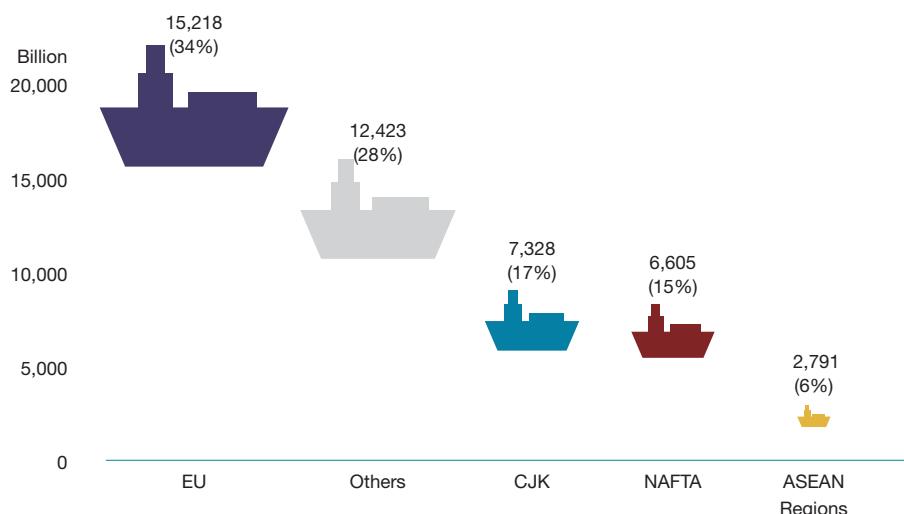
Population in 2012 (% of World Population)



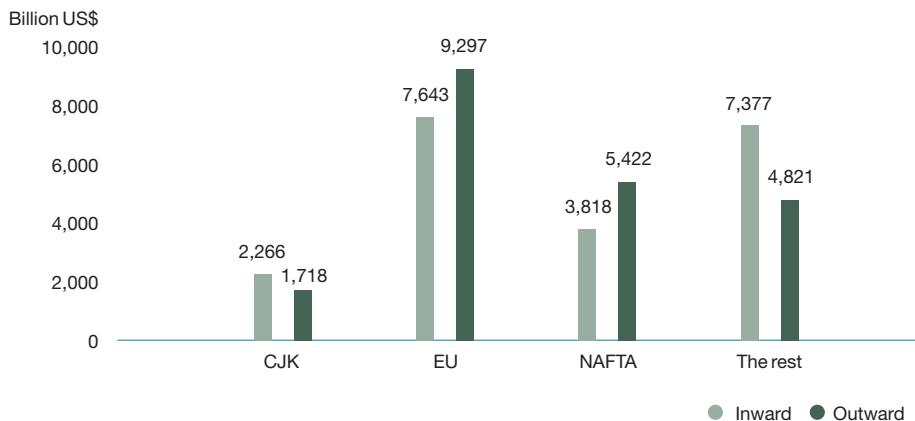
Gross Domestic Product in 2012 (% of World GDP)



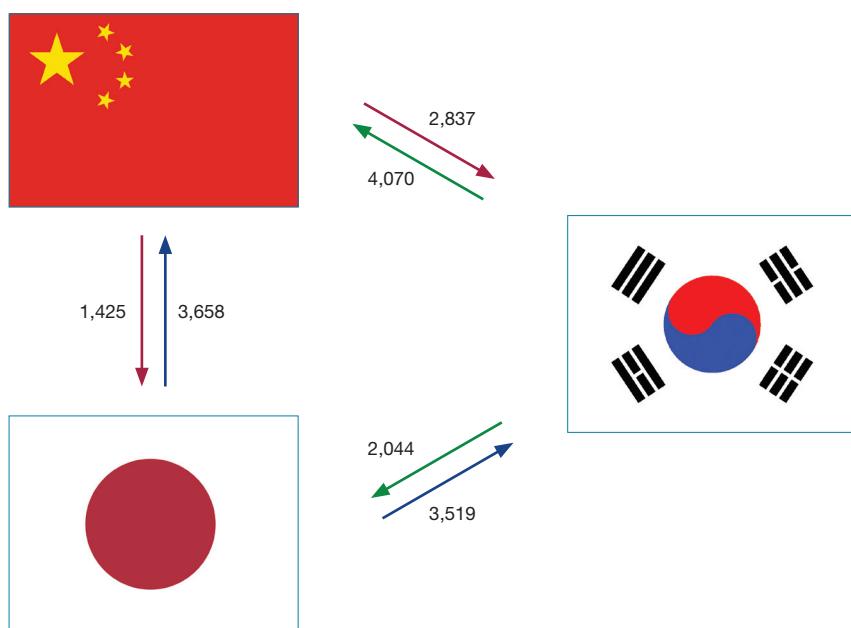
Trade Volumes in 2012 (% of World Trade)



Foreign Direct Investment Stocks in 2011 (Billion US\$)



Number of Travelers in 2012 (Thousand Persons)



2

Basic

Economic

Indicator

- 2-1. Gross Domestic Product (GDP)
- 2-2. GDP per Capita
- 2-3. GDP Growth Rate
- 2-4. GDP Composition by Sectors
- 2-5. Expenditure Structure on GDP
- 2-6. Gross National Income (GNI)
- 2-7. GNI per Capita
- 2-8. GNI Growth Rate
- 2-9. Budget Balance
- 2-10. Price Index (CPI and PPI)
- 2-11. Foreign Exchange Reserves

2-1. Gross Domestic Product (GDP)

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

	World	China	Japan	ROK
2002	33,408	1,454 (4.4)	3,981 (11.9)	576 (1.7)
2003	37,589	1,641 (4.4)	4,303 (11.5)	644 (1.7)
2004	42,293	1,932 (4.6)	4,656 (11.0)	722 (1.7)
2005	45,728	2,257 (4.9)	4,572 (10.0)	845 (1.9)
2006	49,542	2,713 (5.5)	4,357 (8.8)	952 (1.9)
2007	55,876	3,494 (6.3)	4,356 (7.8)	1,049 (1.9)
2008	61,335	4,522 (7.4)	4,849 (7.9)	931 (1.5)
2009	58,080	4,991 (8.6)	5,035 (8.7)	834 (1.4)
2010	63,412	5,931 (9.4)	5,495 (8.7)	1,015 (1.6)
2011	70,371	7,322 (10.4)	5,867 (8.4)	1,114 (1.6)
2012	71,666	8,227 (11.5)	5,960 (8.3)	1,130 (1.6)
2012 Ranking	-	2	3	15

*At current prices

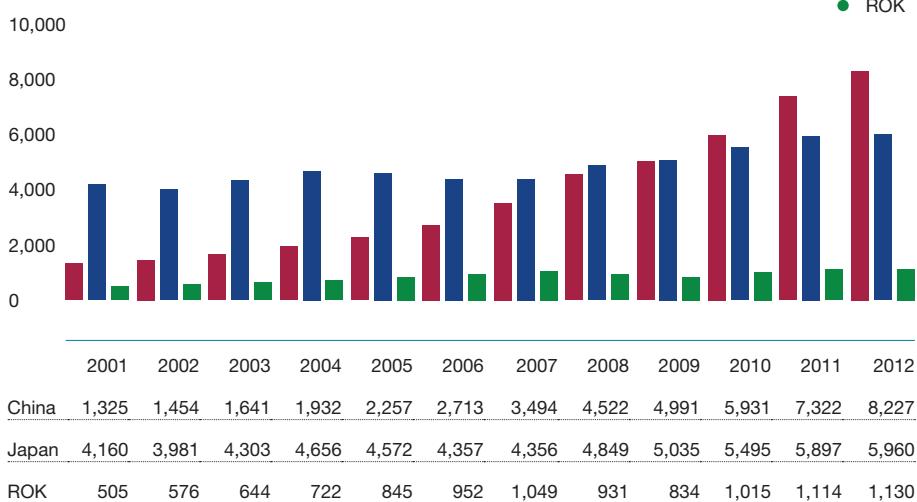
** GDP at purchaser's prices is the sum of gross value added by all resident producers in the economy plus any product taxes and minus any subsidies not included in the value of the products. It is calculated without making deductions for depreciation of fabricated assets or for depletion and degradation 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

GDP (Billion US\$)

- China
- Japan
- ROK



2-2. GDP per Capita

Unit: US\$

	China	Japan	ROK
2002	1,135	31,236	12,094
2003	1,274	33,691	13,451
2004	1,490	36,442	15,029
2005	1,731	35,781	17,551
2006	2,069	34,102	19,676
2007	2,651	34,095	21,590
2008	3,414	37,972	19,028
2009	3,749	39,473	16,959
2010	4,433	43,118	20,540
2011	5,447	46,135	22,388
2012	6,091	46,720	22,590

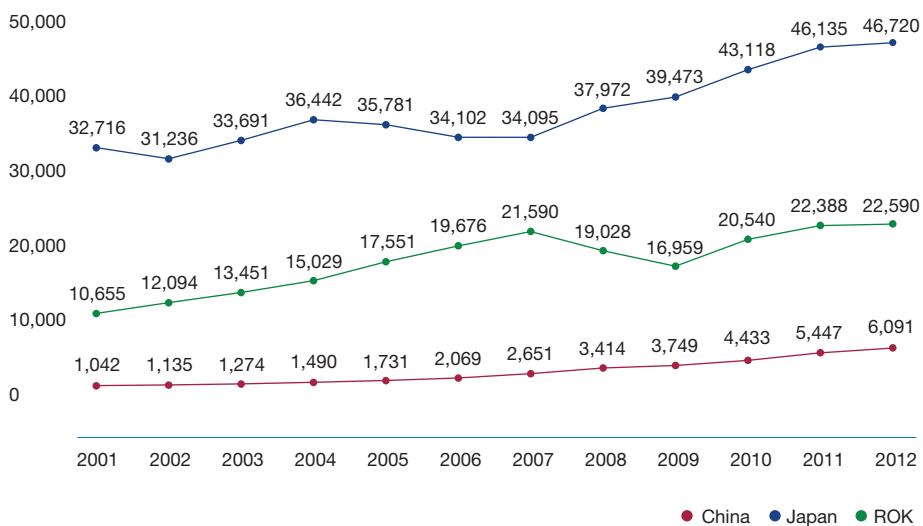
* At current prices

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

Source

World Bank

GDP per Capita (US\$)



● China ● Japan ● ROK

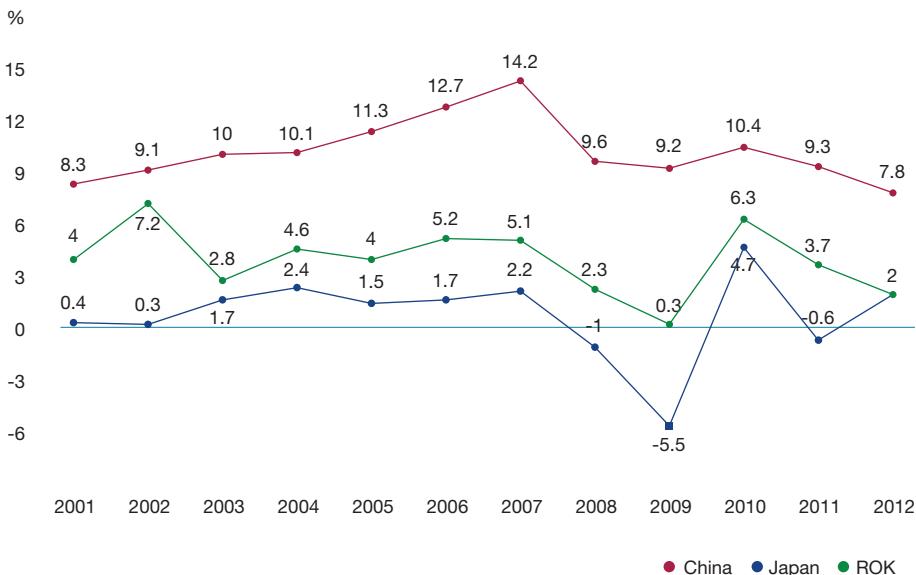
2-3. GDP Growth Rate

Unit: %

	China	Japan	ROK
2002	9.1	0.3	7.2
2003	10.0	1.7	2.8
2004	10.1	2.4	4.6
2005	11.3	1.3	4.0
2006	12.7	1.7	5.2
2007	14.2	2.2	5.1
2008	9.6	-1.0	2.3
2009	9.2	-5.5	0.3
2010	10.4	4.7	6.3
2011	9.3	-0.6	3.7
2012	7.8	2.0	2.0

Source World Bank

GDP Growth Rate



2-4. GDP Composition by Sectors

Unit: %

Sector	China			Japan			ROK		
	Agriculture	Industry	Services	Agriculture	Industry	Services	Agriculture	Industry	Services
2002	13.7	44.8	41.5	1.2	28.1	70.7	4.0	36.2	59.8
2003	12.8	46.0	41.2	1.1	28.2	70.6	3.7	36.7	59.6
2004	13.4	46.2	40.4	1.1	27.5	71.3	3.7	38.1	58.1
2005	12.1	47.4	40.5	1.2	26.0	72.8	3.3	37.7	59.0
2006	11.1	47.9	40.9	1.2	27.5	71.4	3.2	37.2	59.7
2007	10.8	47.3	41.9	1.1	28.2	70.6	2.9	37.1	60.0
2008	10.7	47.5	41.8	1.1	27.5	71.3	2.7	36.5	60.8
2009	10.3	46.3	43.4	1.2	26.0	72.8	2.8	36.8	60.4
2010	10.1	46.7	43.2	1.2	27.5	71.4	2.6	38.8	58.5
2011	10.1	46.8	43.1	1.2	26.1	72.7	2.7	39.2	58.1
2012	10.0	46.6	43.4	-	-	-	2.6	39.1	58.2

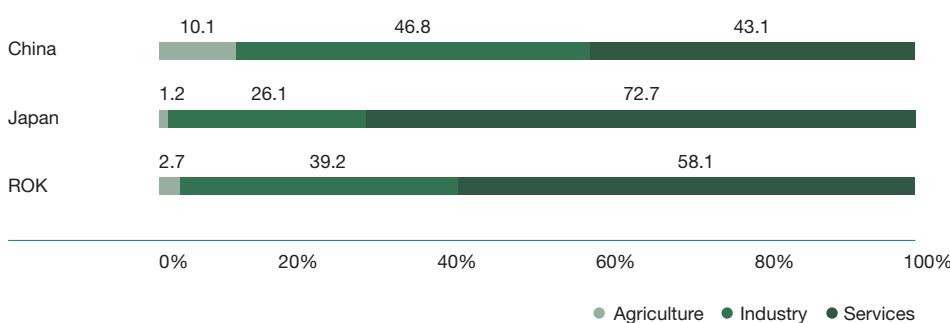
* Agriculture: Agriculture corresponds to ISIC (International Standard of Industry Classification) divisions 1-5 and includes forestry, hunting, and fishing, as well as cultivation of crops and livestock production.

** Industry: Industry corresponds to ISIC divisions 10-45 and includes manufacturing (ISIC divisions 15-37). It comprises value added in mining, manufacturing (also reported as a separate subgroup), construction, electricity, water, and gas.

*** Services: Services correspond to ISIC divisions 50-99 and they include value added in wholesale and retail trade (including hotels and restaurants), transport, and government, financial, professional, and personal services such as education, health care, and real estate services. Also included are imputed bank service charges, import duties, and any statistical discrepancies noted by national compilers as well as discrepancies arising from rescaling.

Source Key Indicators for Asia and the Pacific 2013, Asian Development Bank

GDP Composition by Sectors



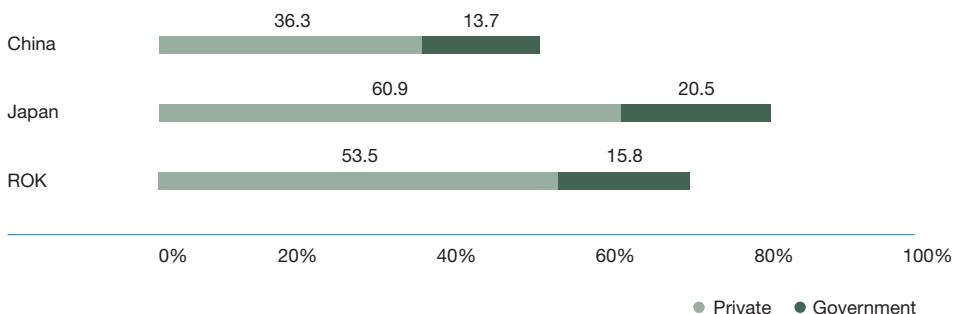
2-5. Expenditure Structure on GDP

Year	Total	Private	Government	Gross Fixed Capital Formation	China (billion Yuan (% of GDP))	
					Total	Private
2002	12,033	5,306 (44.1)	1,876 (15.6)	4,363 (37.9)	477,915	282,074 (57.9)
2003	13,582	5,765 (42.4)	2,004 (14.8)	5,349 (41.2)	485,968	283,474 (57.6)
2004	15,988	6,522 (40.8)	2,233 (14.0)	6,512 (43.3)	497,441	286,742 (57.3)
2005	18,494	7,296 (39.3)	2,640 (14.3)	7,423 (42.1)	503,921	291,133 (57.8)
2006	21,631	8,258 (38.0)	3,053 (14.1)	8,795 (43.0)	512,452	294,344 (57.9)
2007	26,581	9,633 (36.2)	3,590 (13.5)	10,399 (41.7)	523,686	297,063 (57.3)
2008	31,405	11,167 (35.6)	4,175 (13.3)	12,808 (44.0)	518,231	294,313 (58.3)
2009	34,090	12,358 (36.3)	4,569 (13.4)	15,668 (48.3)	489,588	292,342 (60.1)
2010	40,151	14,076 (35.1)	5,336 (13.3)	18,362 (48.2)	512,364	300,436 (59.3)
2011	47,310	16,896 (35.7)	6,315 (13.3)	21,568 (48.3)	509,369	301,767 (60.5)
2012	51,932	18,837 (36.3)	7,123 (13.7)	24,315 (48.8)	519,277	308,725 (60.9)

* Values of all expenditures are at 2005 market prices except those of China which were adjusted to make the total GDP by production approach, consistent with the GDP estimates by expenditure approach at current prices.

Source *Key Indicators for Asia and the Pacific 2013*, Asian Development Bank

Expenditure Structure on GDP (2012)



Japan (Billion Yen (% of GDP))		ROK (Billion Won (% of GDP))			
Government	Gross Fixed Capital Formation	Total	Private	Government	Gross Fixed Capital Formation
88,704 (18.3)	110,994 (22.5)	773,868	408,716 (56.7)	90,930 (12.6)	206,052 (29.2)
90,369 (18.3)	111,191 (22.4)	795,558	420,099 (54.8)	100,057 (13.0)	225,076 (29.9)
91,744 (18.2)	111,630 (22.5)	832,305	435,060 (52.6)	110,128 (13.3)	241,475 (29.9)
92,468 (18.4)	112,574 (22.5)	865,241	465,431 (53.8)	120,010 (13.9)	249,690 (29.7)
92,493 (18.2)	114,272 (22.7)	910,049	494,918 (54.5)	131,901 (14.5)	260,651 (29.6)
93,521 (18.1)	114,631 (22.9)	956,515	530,264 (54.4)	143,262 (14.7)	278,168 (29.4)
93,403 (18.6)	109,923 (23.0)	978,499	561,628 (54.7)	156,944 (15.3)	300,794 (31.2)
95,525 (19.9)	98,282 (19.7)	981,625	575,970 (54.1)	170,325 (16.0)	309,714 (26.3)
97,335 (19.7)	98,043 (19.8)	1,043,666	616,983 (52.6)	178,396 (15.2)	331,734 (29.5)
98,702 (20.4)	99,140 (20.0)	1,082,096	655,387 (53.1)	189,552 (15.3)	340,101 (29.5)
101,049 (20.5)	103,523 (20.6)	1,104,215	680,757 (53.5)	201,476 (15.8)	339,895 (27.6)

2-6. Gross National Income (GNI)

Unit: Billion US\$

	China	Japan	ROK
2002	1,439	4,045	576
2003	1,633	4,374	644
2004	1,927	4,743	724
2005	2,241	4,678	844
2006	2,708	4,481	953
2007	3,502	4,504	1,051
2008	4,550	5,012	938
2009	4,983	5,175	837
2010	5,905	5,643	1,016
2011	7,252	6,081	1,117
2012	8,185	6,150	1,136

* At current USD

Source World Bank

2-7. GNI per Capita

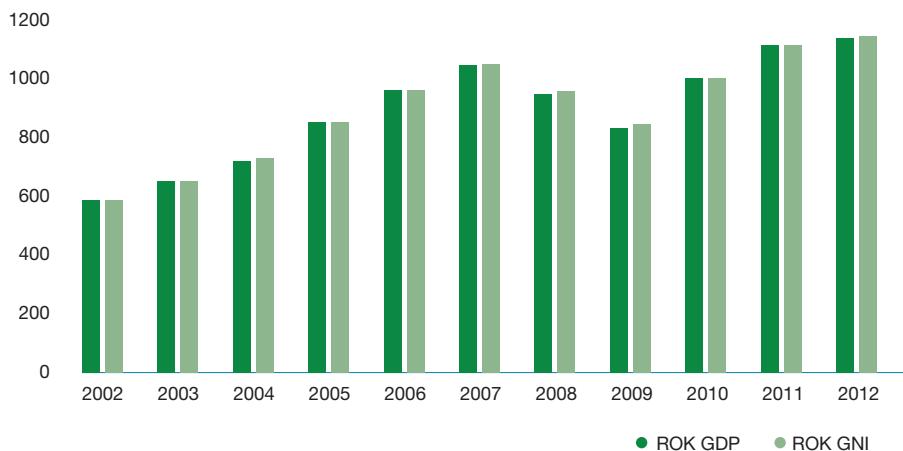
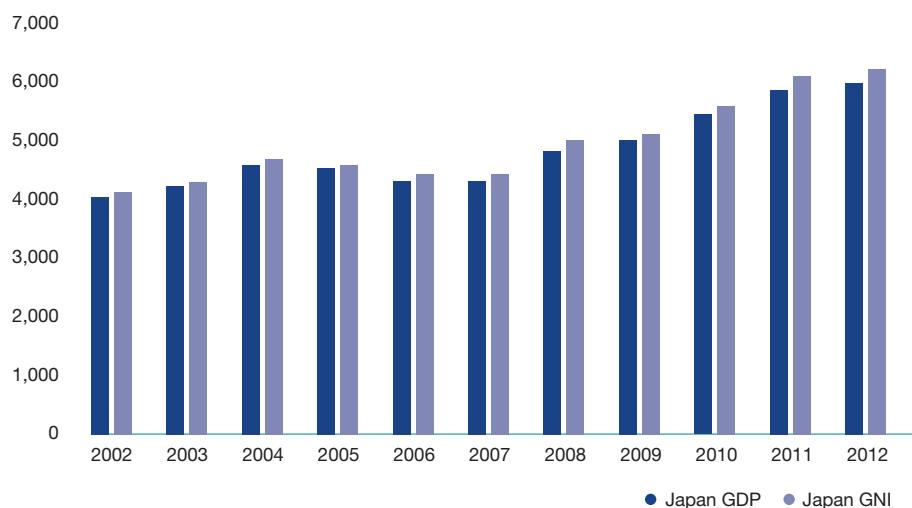
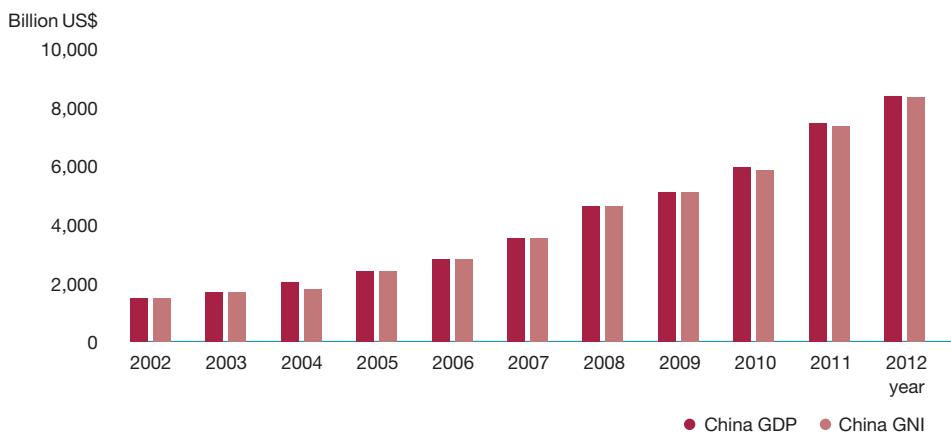
Unit: US\$

	China	Japan	ROK
2002	1,100	33,750	11,830
2003	1,270	34,010	12,680
2004	1,500	37,150	14,830
2005	1,740	39,140	16,900
2006	2,040	38,600	18,920
2007	2,480	37,660	21,140
2008	3,040	37,870	21,430
2009	3,620	37,610	19,650
2010	4,230	42,190	19,720
2011	4,950	45,130	20,870
2012	5,680	47,870	22,670

* GNI per capita converted to U.S. dollars using the World Bank Atlas method.

Source World Bank

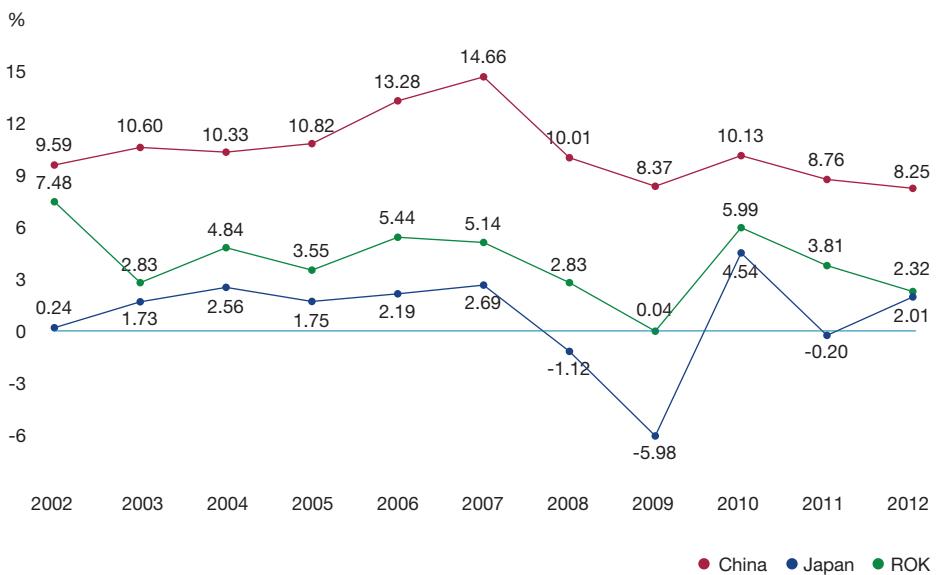
GDP and GNI



2-8. GNI Growth Rate

	China	Japan	ROK	Unit: %
2002	9.59	0.24	7.48	
2003	10.60	1.73	2.83	
2004	10.33	2.56	4.84	
2005	10.82	1.75	3.55	
2006	13.28	2.19	5.44	
2007	14.66	2.69	5.14	
2008	10.01	-1.12	2.83	
2009	8.37	-5.98	0.04	
2010	10.13	4.54	5.99	
2011	8.76	-0.20	3.81	
2012	8.25	2.01	2.32	
Source	World Bank			

GNI Growth Rate



2-9. Budget Balance

Unit: % of GDP

	China	Japan	ROK
2002	-2.6	-6.5	3.1
2003	-2.2	-6.5	1.0
2004	-1.3	-5.1	0.6
2005	-1.2	-4.1	0.4
2006	-0.8	-0.9	0.4
2007	0.6	-2.4	3.5
2008	-0.4	-2.9	1.2
2009	-2.3	-7.6	-1.7
2010	-1.7	-6.7	1.4
2011	-1.1	-8.3	1.5
2012	-1.8	n/a	1.5

* Budget balance is the difference between government revenue and government expenditure.

Source Key Indicators for Asia and the Pacific 2013, Asian Development Bank

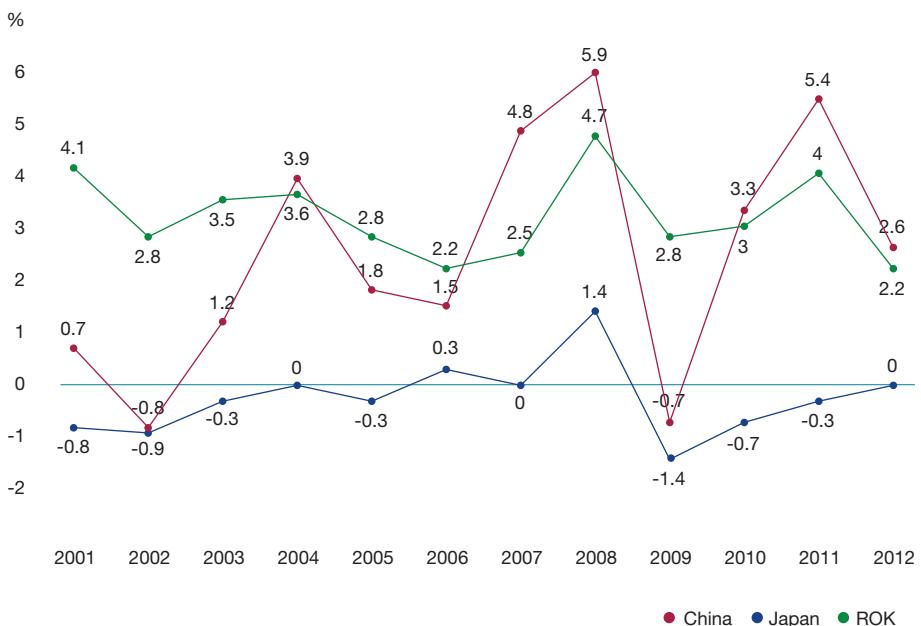
2-10. Price Index

Unit: Annual % Change

	CPI (Consumer Price Index)			PPI (Producer Price Index)		
	China	Japan	ROK	China	Japan	ROK
2002	-0.8	-0.9	2.8	-2.2	-2.1	-0.3
2003	1.2	-0.3	3.5	2.3	-0.9	2.2
2004	3.9	0.0	3.6	6.1	1.3	6.1
2005	1.8	-0.3	2.8	4.9	1.6	2.1
2006	1.5	0.3	2.2	3.0	2.2	0.9
2007	4.8	0.0	2.5	3.1	1.8	1.4
2008	5.9	1.4	4.7	6.9	4.6	8.5
2009	-0.7	-1.4	2.8	-5.4	-5.3	-0.2
2010	3.3	-0.7	3.0	5.5	-0.1	3.8
2011	5.4	-0.3	4.0	6.0	1.5	6.7
2012	2.6	0.0	2.2	-1.7	-0.8	0.7

Source Key Indicators for Asia and the Pacific 2013, Asian Development Bank

CPI (Consumer Price Index)



2-11. Foreign Exchange Reserves

Unit: Billion US\$ (Ranking)

	China	Japan	ROK
2002	297.7 (2)	469.6 (1)	121.5 (4)
2003	416.2 (2)	673.6 (1)	155.5 (4)
2004	622.9 (2)	844.7 (1)	199.2 (3)
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	3,331.1 (1)	1,227.1 (2)	323.2 (8)

* At current prices

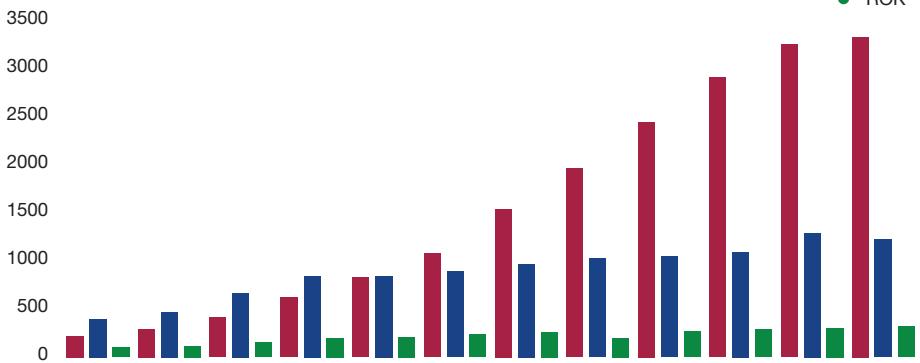
** Data refer to international reserves with gold at national valuation unless otherwise specified.

Source

World Bank

Foreign Exchange Reserves (Billion US\$)

- China
- Japan
- ROK



	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
China	220.1	297.7	416.2	622.9	831.4	1,080.8	1,546.4	1,966.0	2,452.9	2,913.7	3,254.7	3,331.1
Japan	402.0	469.6	673.6	844.7	846.9	895.3	973.3	1,030.8	1,049.0	1,096.1	1,295.8	1,227.1
ROK	102.9	121.5	155.5	199.2	210.6	239.1	262.5	201.5	270.4	292.1	306.9	323.2

3

Population

-
- 3-1. Total Population
 - 3-2. Population Density
 - 3-3. Annual Average Growth Rate of Population
 - 3-4. Population in Urban and Rural Areas
 - 3-5. Population Distribution by Age Group
 - 3-6. Age Dependency Ratio
 - 3-7. Old-Age Support Ratio
 - 3-8. Total Fertility Rate
 - 3-9. Birth Rate
 - 3-10. Aging Index
 - 3-11. Average Life Expectancy
 - 3-12. Employment and Unemployment
 - 3-13. School Enrollment
 - 3-14. Future Population Estimates

3-1. Total Population

Unit: Thousand Persons (% of World Population)

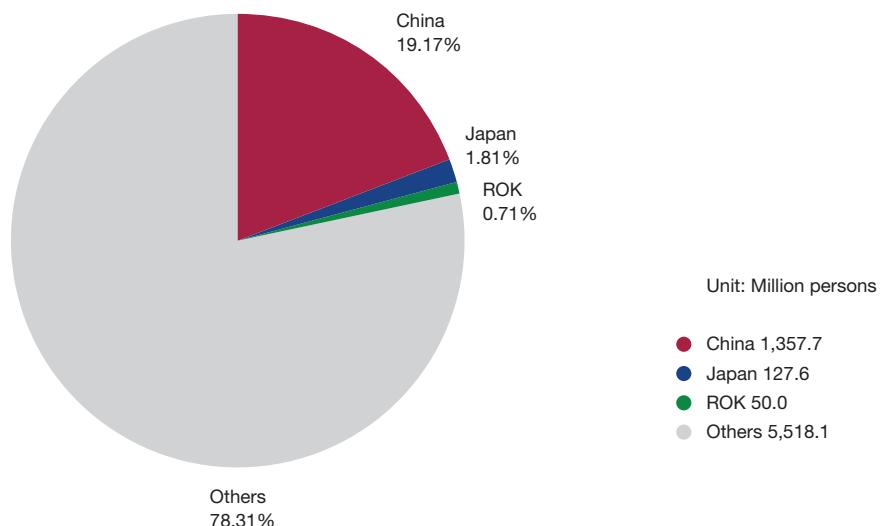
	World	China	Japan	ROK	Others
2002	6,257,639	1,280,400 (20.46)	127,445 (2.04)	47,622 (0.76)	4,802,172 (76.74)
2003	6,335,191	1,288,400 (20.34)	127,718 (2.02)	47,859 (0.76)	4,871,214 (76.89)
2004	6,412,915	1,296,075 (20.21)	127,761 (1.99)	48,039 (0.75)	4,941,040 (77.05)
2005	6,490,741	1,303,720 (20.09)	127,773 (1.97)	48,138 (0.74)	5,011,110 (77.20)
2006	6,568,642	1,311,020 (19.96)	127,756 (1.94)	48,372 (0.74)	5,081,494 (77.36)
2007	6,646,909	1,317,885 (19.83)	127,771 (1.92)	48,598 (0.73)	5,152,655 (77.52)
2008	6,726,054	1,324,655 (19.69)	127,704 (1.90)	48,949 (0.73)	5,224,746 (77.68)
2009	6,805,251	1,331,260 (19.56)	127,558 (1.87)	49,182 (0.72)	5,297,251 (77.84)
2010	6,885,218	1,337,705 (19.43)	127,450 (1.85)	49,410 (0.72)	5,370,653 (78.00)
2011	6,965,945	1,344,130 (19.30)	127,817 (1.83)	49,779 (0.71)	5,444,219 (78.15)
2012	7,046,369	1,350,695 (19.17)	127,561 (1.81)	50,004 (0.71)	5,518,109 (78.31)

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

Source

World Bank

Population (2012)



3-2. Population Density

Unit: Persons Per Square km of Land Area

	China	Japan	ROK
2002	133.8	341.8	478.0
2003	135.0	342.4	480.5
2004	135.0	342.6	482.2
2005	136.0	342.7	483.1
2006	136.9	343.1	484.5
2007	137.6	343.5	487.0
2008	138.3	343.6	490.0
2009	139.0	343.6	492.0
2010	140.0	343.6	494.0
2011	140.0	343.0	498.0
2012	140.7	342.3	500.0

Source Key Indicators for Asia and the Pacific 2013, Asian Development Bank

3-3. Annual Average Growth Rate of Population

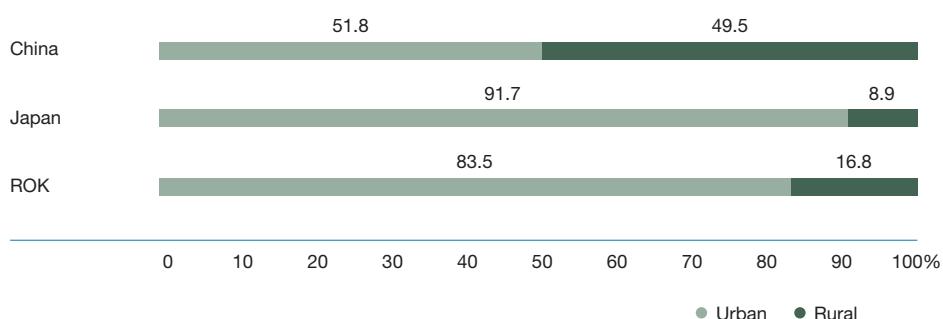
	China	Japan	ROK	Unit: %
2002	0.67	0.23	0.56	
2003	0.62	0.21	0.50	
2004	0.59	0.03	0.38	
2005	0.59	0.01	0.21	
2006	0.56	-0.01	0.49	
2007	0.52	0.01	0.47	
2008	0.51	-0.05	0.72	
2009	0.50	-0.11	0.48	
2010	0.48	-0.08	0.46	
2011	0.48	0.29	0.74	
2012	0.49	-0.20	0.45	

* 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

Percentage of Population in Urban and Rural Areas (2012)



3-4. Population in Urban and Rural Areas

Number of Population

Unit: Thousand Persons

	China		Japan		ROK	
	Urban	Rural	Urban	Rural	Urban	Rural
1970	142,387	675,928	75,000	29,345	12,994	18,929
1975	159,453	756,942	84,756	27,184	16,947	18,335
1980	189,947	791,288	88,959	27,823	21,624	16,500
1985	240,415	810,625	92,633	28,121	26,473	14,333
1990	300,166	835,019	95,542	27,995	31,656	11,213
1995	373,035	831,820	97,862	27,577	35,280	9,813
2000	452,999	809,646	99,782	27,088	37,428	9,580
2005	554,368	749,352	109,857	17,916	39,158	8,980
2010	658,499	679,206	115,395	12,056	40,977	8,433
2011	678,796	665,334	116,487	11,331	41,417	8,362
2012	699,330	651,365	117,011	10,550	41,738	8,266

* 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.

% of Total Population (Growth Rate)

Unit: % of Total Population (% of growth)

	China		Japan		ROK	
	Urban	Rural	Urban	Rural	Urban	Rural
1970	17.4 (2.0)	82.6 (2.9)	71.9 (2.3)	28.1 (-.17)	40.7 (6.3)	59.3 (-0.6)
1975	17.4 (1.8)	82.6 (1.8)	75.7 (2.6)	24.3 (-1.5)	48.0 (5.0)	52.0 (-0.8)
1980	19.4 (3.3)	80.6 (0.8)	76.2 (0.9)	23.8 (0.4)	56.7 (4.7)	43.3 (-2.4)
1985	22.9 (4.5)	77.1 (0.5)	76.7 (0.8)	23.3 (0.2)	64.9 (3.5)	35.1 (-3.6)
1990	26.4 (4.2)	73.6 (0.5)	77.3 (0.5)	22.7 (-0.2)	73.8 (3.6)	26.2 (-5.5)
1995	31.0 (4.0)	69.0 (-0.2)	78.0 (0.6)	22.0 (-0.2)	78.2 (2.6)	21.8 (-2.5)
2000	35.9 (3.6)	64.1 (-0.7)	78.6 (0.3)	21.4 (-0.4)	79.6 (1.2)	20.4 (-0.5)
2005	42.5 (3.8)	57.5 (-1.7)	86.0 (1.7)	14.0 (-9.9)	81.3 (0.6)	18.7 (-1.6)
2010	49.2 (3.2)	50.8 (-2.1)	90.5 (0.9)	9.5 (-9.3)	82.9 (0.8)	17.1 (-1.4)
2011	50.5 (3.0)	49.5 (-2.1)	91.1 (0.9)	8.9 (-6.2)	83.2 (1.1)	16.8 (-0.8)
2012	51.8 (3.0)	48.2 (-2.1)	91.7 (0.4)	8.3 (-7.1)	83.5 (0.8)	16.5 (-1.2)

Source

World Bank

3-5. Population Distribution by Age Group

Unit: %

	World			China			Japan			ROK		
Age Group	0-14	15-64	65+	0-14	15-64	65+	0-14	15-64	65+	0-14	15-64	65+
2002	29.30	63.65	7.06	23.56	69.24	7.19	14.24	67.52	18.24	20.28	71.63	8.09
2003	28.84	64.01	7.15	22.45	70.18	7.36	14.08	67.16	18.76	19.94	71.57	8.49
2004	28.41	64.35	7.24	21.41	71.06	7.52	13.93	66.77	19.29	19.55	71.55	8.90
2005	28.02	64.66	7.31	20.51	71.82	7.67	13.80	66.35	19.85	19.10	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	18.00	71.98	10.02
2008	27.12	65.37	7.51	18.71	73.22	8.07	13.47	64.89	21.64	17.40	72.23	10.37
2009	26.90	65.52	7.58	18.38	73.42	8.20	13.38	64.34	22.29	16.80	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	26.54	65.72	7.74	18.01	73.48	8.51	13.20	63.13	23.67	15.73	72.83	11.44
2012	26.41	65.76	7.84	17.98	73.34	8.68	13.11	62.49	24.40	15.25	72.94	11.81

* Population, age 0-14 (% of total) is the population between the ages of 0 and 14 as a percentage of the total population.
 (Population, age 0-14 /Total Population)*100

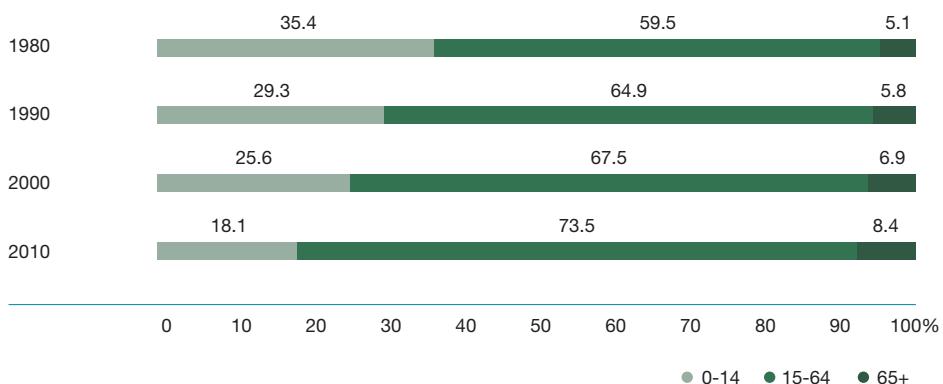
** Population, age 15-64 (% of total) is the population between the ages of 15 and 64 as a percentage of the total population.
 (Population, age 15-64 /Total Population)*100

*** Population ages 65 and above as a percentage of the total population.
 (Population, age 65 and above /Total Population)*100

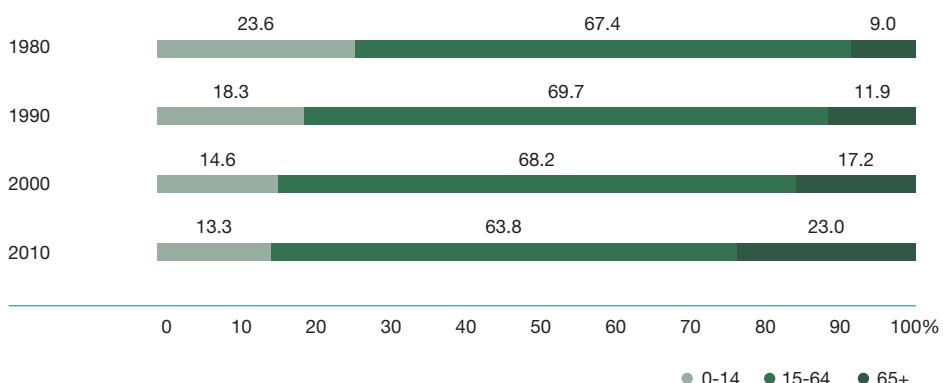
Source

World Bank

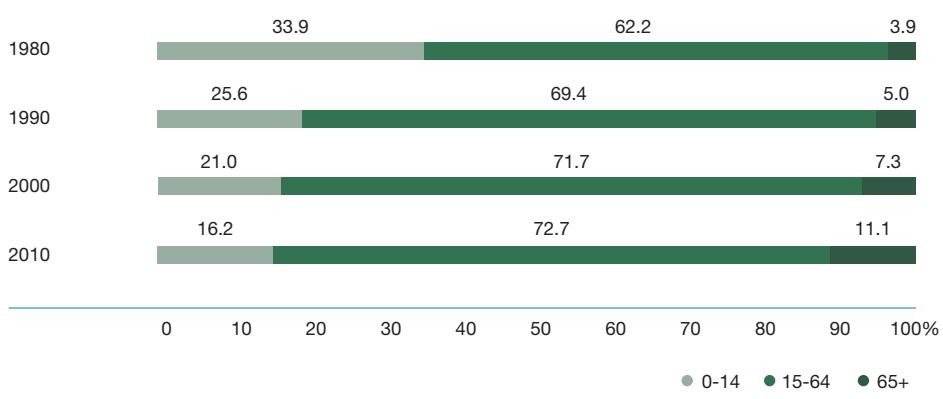
China's Population Distribution by Age Group over Time



Japan's Population Distribution by Age Group over Time



ROK's Population Distribution by Age Group over Time



3-6. Age Dependency Ratio

Unit: %

	World			China			Japan			ROK		
Age Group	Total	Old	Young									
2002	58.5	11.1	46.0	44.4	10.4	34.0	48.1	27.0	21.1	39.6	11.3	28.3
2003	57.6	11.2	45.1	42.5	10.5	32.0	48.9	27.9	21.0	39.7	11.9	27.9
2004	56.9	11.2	44.1	40.7	10.6	30.1	49.8	28.9	20.9	39.8	12.4	27.3
2005	56.2	11.3	43.3	39.2	10.7	28.6	50.7	29.9	20.8	39.6	13.0	26.7
2006	55.6	11.4	42.6	38.1	10.8	27.3	51.8	31.0	20.8	39.3	13.5	25.9
2007	55.0	11.4	42.0	37.2	10.9	26.3	52.9	32.1	20.8	38.9	14.4	25.0
2008	54.6	11.5	41.5	36.6	11.0	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	25.0	55.4	34.6	20.8	38.0	15.2	23.2
2010	54.0	11.7	40.7	36.0	11.4	24.7	56.9	36.0	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	60.0	39.0	21.0	37.1	16.2	20.9

* 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

3-7. Old-Age Support Ratio

Unit: %

	China	Japan	ROK
2007	7.97	2.90	6.52
2008	7.93	2.82	6.32
2009	7.87	2.73	6.13
2010	7.78	2.63	5.95
2011	7.66	2.53	5.78

* Number of People of Working Age (20-64) per Person of Pension Age (65+).

Source United Nations World Population Prospects (2012 Revision)

3-8. Total Fertility Rate

Unit: %

	World	China	Japan	ROK
1970	4.71	5.47	2.14	4.53
1975	4.14	3.83	1.91	3.47
1980	3.72	2.71	1.75	2.83
1985	3.55	2.81	1.76	1.67
1990	3.27	2.51	1.54	1.59
1995	2.86	1.75	1.42	1.65
2000	2.54	1.51	1.36	1.47
2005	2.53	1.59	1.26	1.08
2006	2.52	1.60	1.32	1.12
2007	2.52	1.62	1.34	1.25
2008	2.50	1.63	1.37	1.19
2009	2.49	1.64	1.37	1.15
2010	2.48	1.65	1.39	1.23
2011	2.45	1.66	1.39	1.24

* 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 child-bearing years and bear children in accordance with current age-specific fertility rates.

Source

World Bank

3-9. Birth Rate

Unit: %

Per Thousand Persons

	World	China	Japan	ROK
1970	32.31	33.43	18.70	31.20
1975	28.88	23.01	17.00	24.80
1980	27.27	18.21	13.50	22.70
1985	27.04	21.04	11.90	16.20
1990	25.68	21.06	10.00	15.40
1995	23.18	17.12	9.54	16.00
2000	21.43	14.03	9.40	13.40
2005	20.24	12.40	8.41	8.90
2006	20.09	12.09	8.65	9.20
2007	20.01	12.10	8.63	10.00
2008	19.93	12.14	8.70	9.40
2009	19.78	12.13	8.50	9.00
2010	19.58	11.90	8.50	9.40
2011	19.43	11.93	8.30	9.50

* Crude birth rate indicates the number of live births occurring during the year, per 1,000 persons estimated at midyear.

Source

World Bank

3-10. Aging Index

Unit: %

	World	China	Japan	ROK
2002	24.1	30.5	128.1	39.9
2003	24.8	32.8	133.2	42.6
2004	25.5	35.1	138.5	45.5
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	160.7	59.6
2009	28.2	44.6	166.6	63.8
2010	28.6	46.0	172.8	68.2
2011	29.2	47.3	179.3	72.7
2012	29.7	48.3	186.1	77.4

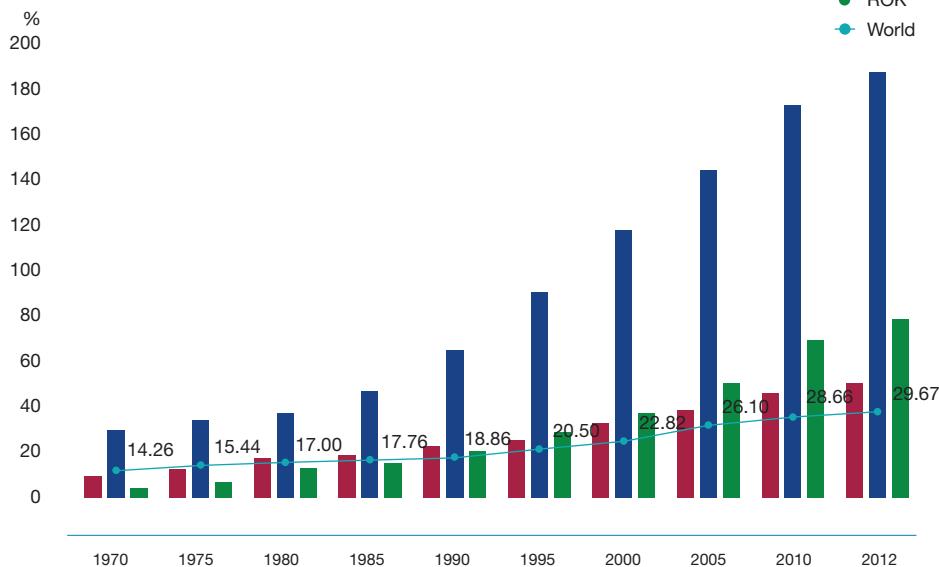
* Aging Index =(65 and above/0~14 Age)*100

Source

World Bank

Aging Index Over Time (%)

- China
- Japan
- ROK
- World



3-11. Average Life Expectancy

Unit: Age

	World			China			Japan			ROK		
	Total	Male	Female									
2001	68.0	65.9	70.1	72.6	71.3	74.0	81.4	78.1	84.9	68.0	72.8	80.0
2002	68.2	66.2	70.4	73.1	71.8	74.4	81.6	78.1	85.2	68.2	73.4	80.4
2003	68.5	66.5	70.6	73.5	72.2	74.8	81.8	78.4	85.3	68.5	73.9	80.8
2004	68.8	66.8	70.9	73.8	72.6	75.1	82.0	78.6	85.6	68.8	74.5	81.4
2005	69.0	67.0	71.2	74.1	72.8	75.3	81.9	78.5	85.5	69.0	75.1	81.9
2006	69.3	67.3	71.5	74.3	73.0	75.5	82.3	79.0	85.8	69.3	75.7	82.4
2007	69.6	67.5	71.7	74.4	73.2	75.7	82.5	79.2	86.0	69.6	76.1	82.7
2008	69.8	67.8	72.0	74.6	73.3	75.9	82.6	79.3	86.1	69.8	76.5	83.3
2009	70.1	68.0	72.2	74.7	73.5	76.0	82.9	79.6	86.4	70.1	77.0	83.8
2010	70.3	68.2	72.5	74.9	73.6	76.2	82.8	79.6	86.3	70.3	77.2	84.1
2011	70.5	68.5	72.7	75.0	73.8	76.4	82.6	79.4	85.9	70.5	77.5	84.4

* 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

3-12. Employment and Unemployment

Unit: Thousand Persons

	China				Japan				ROK	
	Employment	Unemployment	Employment	Unemployment	Employment	Unemployment	Total	Rate		
		Total	Rate	Total	Rate	Total	Rate	Total	Rate	
2002	732,800	7,700	4.0	63,300	3,590	5.4	22,169	752	3.3	
2003	737,360	8,800	4.3	63,140	3,500	5.3	22,139	818	3.6	
2004	742,640	8,300	4.2	63,270	3,130	4.7	22,557	860	3.7	
2005	746,470	8,400	4.2	63,560	2,940	4.4	22,856	887	3.7	
2006	749,780	8,470	4.1	63,820	2,750	4.1	23,151	827	3.5	
2007	753,210	8,300	4.0	64,120	2,570	3.9	23,433	783	3.2	
2008	755,640	8,860	4.2	63,850	2,650	4.0	23,577	769	3.2	
2009	758,280	9,210	4.3	62,820	3,360	5.1	23,506	889	3.6	
2010	761,050	9,080	4.1	62,570	3,340	5.1	23,829	920	3.7	
2011	764,200	9,200	4.1	62,890	3,020	4.6	24,244	855	3.4	
2012	767,000	9,200	4.1	62,700	2,850	4.34	24,681	820	3.2	

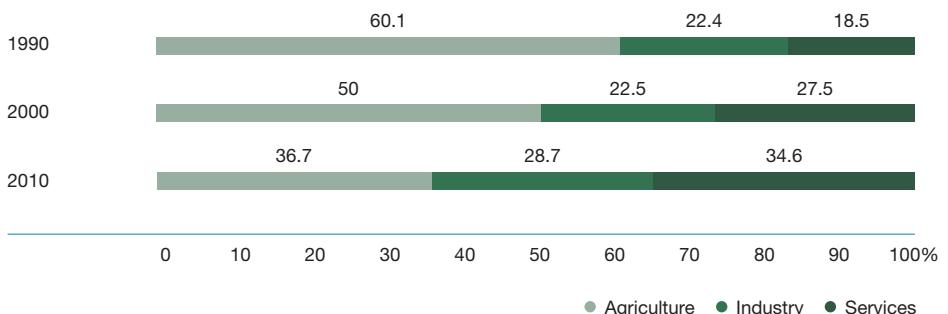
* Total labor force comprises people ages 15 and older who meet the International Labour Organization definition of the economically active population: all people who supply labor for the production of goods and services during a specified period.

** Unemployment rate: Urban areas only

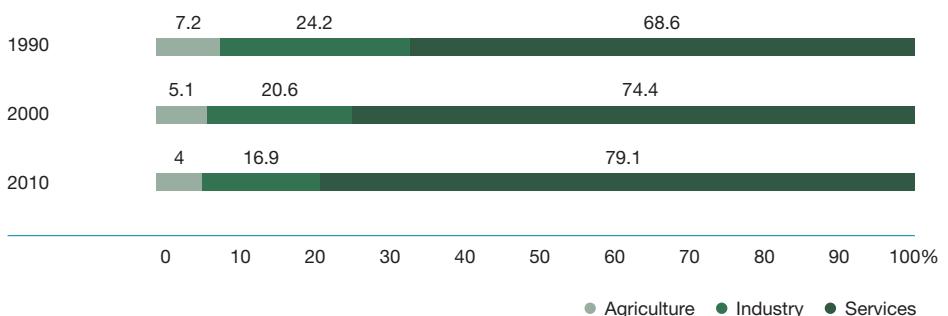
Unit: % of employees

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

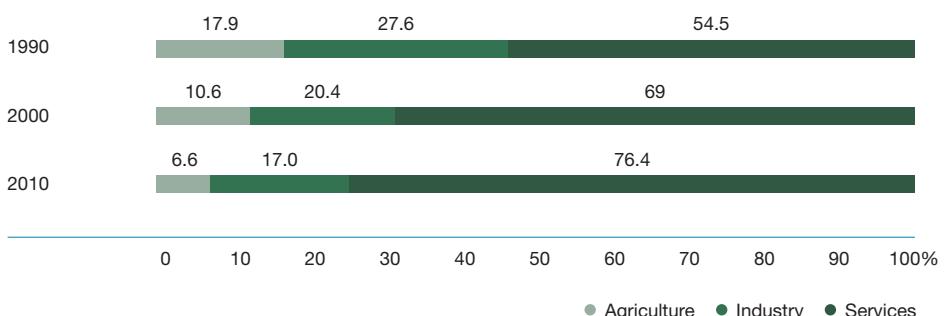
Employment Distribution in China



Employment Distribution in Japan



Employment Distribution in ROK



3-13. School Enrollment

Unit: % Gross

China				
	Pre-primary	Primary	Secondary	Tertiary
2007	42	110	76	22
2008	45	111	79	22
2009	49	111	80	24
2010	54	111	81	26
2011	61.2	113	81	27
Japan				
	Pre-primary	Primary	Secondary	Tertiary
2007	89	103	101	58
2008	90	102	101	59
2009	90	103	102	59
2010	88	103	102	60
2011	n/a	n/a	n/a	n/a
ROK				
	Pre-primary	Primary	Secondary	Tertiary
2007	106	103	96	102
2008	114	104	96	104
2009	121	104	97	104
2010	119	106	97	103
2011	n/a	n/a	n/a	n/a

* 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

3-14. Future Population Estimates

Future Total Population

Unit: Thousand Persons

	China	Japan	ROK
2013	1,385,567	127,144	49,263
2014	1,393,784	127,000	49,512
2015	1,401,587	126,818	49,750
2020	1,432,868	125,382	50,769
2025	1,448,984	123,256	51,602
2030	1,453,297	120,625	52,190
2035	1,448,589	117,663	52,426
2040	1,435,499	114,517	52,270
2045	1,414,089	111,359	51,780
2050	1,384,977	108,329	51,034

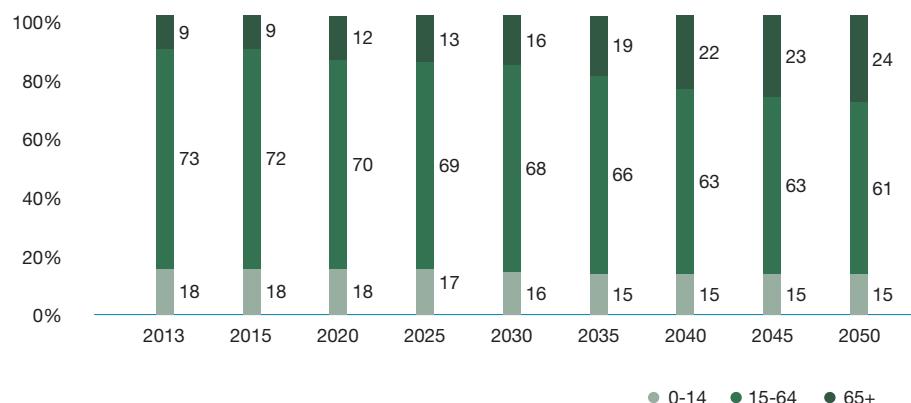
Future Population Distribution by Age Group

Unit: % of total population

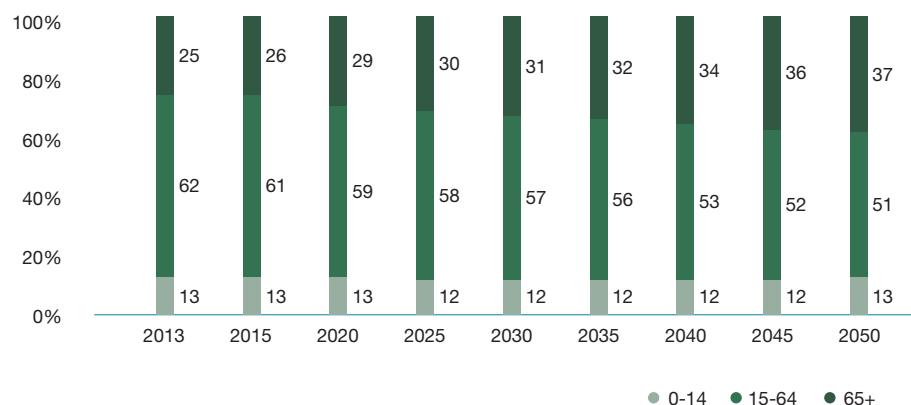
	China			Japan			ROK		
	0-14	15-64	65+	0-14	15-64	65+	0-14	15-64	65+
2013	18	73	9	13	62	25	15	73	12
2015	18	72	9	13	61	26	14	73	13
2020	18	70	12	13	59	29	14	71	16
2025	17	69	13	12	58	30	14	67	19
2030	16	68	16	12	57	31	14	63	23
2035	15	66	19	12	56	32	13	60	27
2040	15	63	22	12	53	34	13	57	31
2045	15	63	23	12	52	36	12	55	33
2050	15	61	24	13	51	37	12	53	35

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

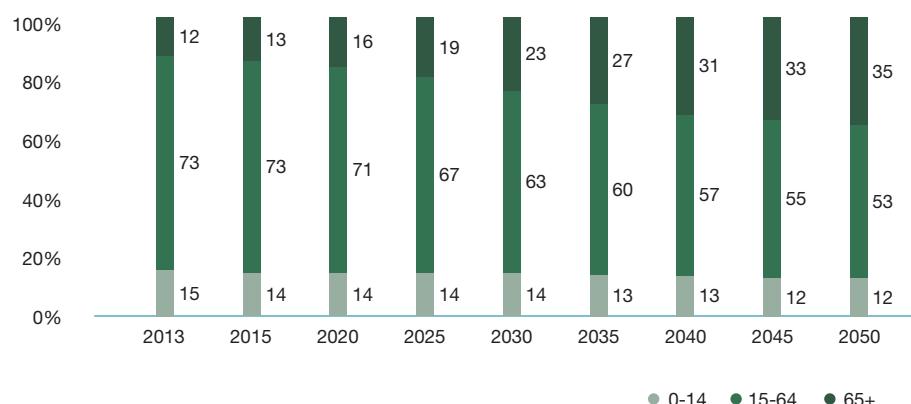
Future population: China



Future population: Japan



Future population: ROK



4

Resources and

Environment

- 4-1. Land
- 4-2. Water
- 4-3. Major Natural Resources Endowment
- 4-4. Coal
- 4-5. Crude Oil
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- 4-8. Energy Consumption Ranking (2010)
- 4-9. Primary Energy Consumption by Fuel
- 4-10. Electricity
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- 4-13. Nuclear Energy Generation

4-1. Land

Unit: % of Total Land Area

	Forest Area			Arable Land			Agricultural Land		
	China	Japan	ROK	China	Japan	ROK	China	Japan	ROK
1990	16.85	68.43	64.52	13.26	13.08	19.78	54.23	15.61	22.07
2000	18.98	68.25	63.69	12.97	12.27	17.40	56.29	14.43	19.98
2010	22.18	68.53	64.08	11.94	11.75	15.52	55.62	12.60	18.26

Source

World Bank

4-2. Water

	Renewable Freshwater			Renewable Freshwater per Capita			Freshwater Withdrawals		
	Unit: Billion cubic meters			Unit: Cubic meters			Unit: Billion cubic meters (% of internal resources)		
	China	Japan	ROK	China	Japan	ROK	China	Japan	ROK
1992	2813	430	64.85	2414.65	3761.35	1485.24	500.0 (17.8)	91.4 (21.2)	-
1997	2813	430	64.85	2286.85	3410.23	1411.19	525.4 (18.7)	89.0 (20.7)	-
2002	2813	430	64.85	2196.97	3374.00	1361.77	525.4 (18.7)	90.0 (20.9)	25.5 (39.3)
2007	2813	430	64.85	2134.48	3365.40	1334.42	554.1 (19.7)	90.0 (20.9)	25.5 (39.3)
2011	2813	430	64.85	2092.80	3364.18	1302.76	554.1 (19.7)	90.0 (20.9)	25.5 (39.3)
Improved Water (Rural Area)									
Unit: % of rural population with access						Unit: % of urban population with access			
	China	Japan	ROK	China	Japan	ROK			
1990	56	100	-	96.7	100	97			
1995	63.2	100	67.4	97.1	100	97			
2000	70.4	100	75.3	97.5	100	98.1			
2005	77.6	100	83.2	97.9	100	99.1			
2008	82	100	87.9	98.2	100	99.7			
2009	83.4	100	87.9	98.3	100	99.7			
2010	84.9	100	87.9	98.4	100	99.7			
2011	84.9	100	87.9	98.4	100	99.7			

* Access to an improved water source refers to the percentage of the population using an improved drinking water source. The improved drinking water source includes piped water on premises (piped household water connection located inside the user's dwelling, plot or yard), and other improved drinking water sources (public taps or standpipes, tube wells or boreholes, protected dug wells, protected springs, and rainwater collection).

Source	World Bank
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4-3. Major Natural Resources Endowment

Unit: Billion Barrels

	Crude Oil Reserves		
	China	Japan	ROK
2007	16.00	0.06	n/a
2008	16.00	0.04	n/a
2009	16.00	0.04	n/a
2010	20.35	0.04	n/a
2011	20.35	0.04	n/a
2012	20.35	0.04	n/a
2013	25.59	0.04	n/a

Source U.S. Energy Information Administration (EIA)

Unit: Trillion Cubic Feet

	Proved Natural Gas Reserves		
	China	Japan	ROK
2007	80.00	1.40	0.11
2008	80.00	0.74	0.11
2009	80.00	0.74	0.07
2010	107.00	0.74	0.07
2011	107.00	0.74	0.04
2012	107.00	0.74	0.25
2013	124.20	0.74	0.19

Source U.S. Energy Information Administration (EIA)

Unit: Million Tons

	Proved Coal Reserves		
	China	Japan	ROK
2007	114,500	355	135
2008	114,500	355	133
2010	114,500	350	126
2011	114,500	347	126

Source Survey of Energy Resources, World Energy Council

* Proved Reserves mean the amount of resources identified in a reserve that is technologically or economically feasible to extract.

4-4. Coal

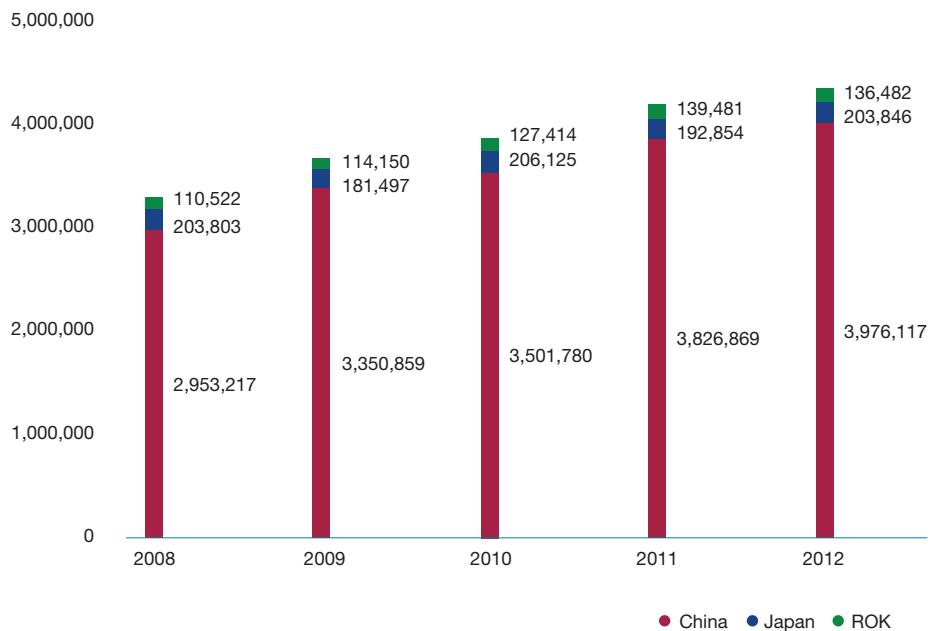
Unit: Thousand Short Tons

	Production ¹			Consumption		
	China	Japan	ROK	China	Japan	ROK
2007	2,844,311	0	3,181	2,788,086	207,581	98,226
2008	3,021,900	0	3,057	2,953,217	203,803	110,522
2009	3,301,803	0	2,777	3,350,859	181,497	114,150
2010	3,505,520	0	2,297	3,501,780	206,125	127,414
2011	3,844,942	0	2,308	3,826,869	192,854	139,481
2012	3,991,050	0	2,306	3,976,117	203,846	136,482

1. Total Primary Coal Production

	Import			Export		
	China	Japan	ROK	China	Japan	ROK
2007	53,559	208,984	94,082	75,415	1,528	0
2008	43,289	205,919	107,062	63,388	1,044	0
2009	124,406	182,089	109,874	25,240	1,033	0
2010	163,821	206,701	125,808	24,751	723	0
2011	192,499	194,071	138,165	18,165	1,079	0
CO2 Emission from Coal Consumption (Thousand Metric Tons)						
	China		Japan		ROK	
2007	5,228,599		445,835		213,441	
2008	5,537,758		436,440		240,307	
2009	6,292,162		389,015		248,422	
2010	6,568,872		442,431		277,132	
2011	7,178,190		413,106		303,246	
Source	U.S. Energy Information Administration (EIA)					

Coal Consumption (Thousand Short Tons)



4-5. Crude Oil

Unit: Thousand Barrels per Day

	Crude Oil Including Lease Condensate Production			Total Petroleum Consumption		
	China	Japan	ROK	China	Japan	ROK
2008	3,790	6	0	7,468	4,798	2,142
2009	3,796	5	0	8,540	4,390	2,189
2010	4,078	5	0	9,330	4,455	2,269
2011	4,059	5	0	9,852	4,471	2,258
2012	4,085	5	0	10,277	4,715	2,301

* 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		
	China	Japan	ROK	China	Japan	ROK
2007	3,264	3,998	2,367	78	0	0
2008	3,578	3,825	2,333	85	0	0
2009	4,082	3,444	2,320	104	0	0
2010	4,754	3,472	2,372	61	0	0
2011	n/a	n/a	n/a	n/a	n/a	n/a

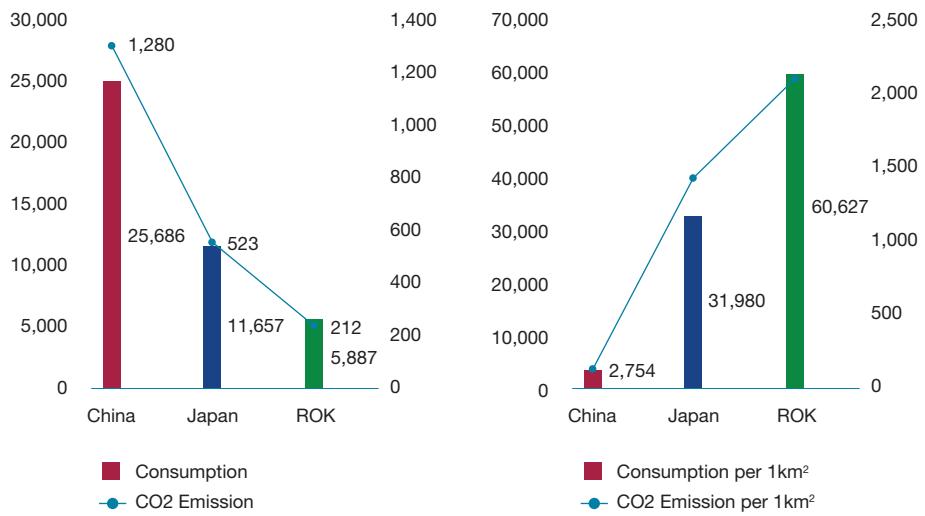
CO2 Emission from Petroleum Consumption (Thousand Metric Tons)

	China	Japan	ROK
2007	959,177	598,608	215,867
2008	995,196	574,346	206,405
2009	1,107,277	511,228	203,865
2010	1,218,433	521,795	213,633
2011	1,279,787	523,153	211,613

Source

U.S. Energy Information Administration (EIA)

Petroleum Consumption and its CO2 Emission



4-6. Dry Natural Gas

Unit: Billion Cubic Feet

	Production			Consumption		
	China	Japan	ROK	China	Japan	ROK
2008	2,685	185	16	2,726	3,667	1,265
2009	2,975	176	27	3,125	3,653	1,215
2010	3,334	171	34	3,768	3,848	1,516
2011	3,629	176	36	4,624	4,361	1,614
2012	3,828	116	15	5,152	4,388	1,753
Import			Export			
	China	Japan	ROK	China	Japan	ROK
2008	159	3,369	1,314	119	0	0
2009	264	3,278	1,191	113	0	0
2010	577	3,489	1,549	142	0	0
2011	1,108	4,113	1,654	113	0	0
2012	n/a	4,314	1,671	n/a	0	0
CO2 Emission from Natural Gas Consumption (Thousand Metric Tons)						
	China		Japan		ROK	
2007	138,588		209,997		73,791	
2008	151,696		205,466		75,059	
2009	173,941		204,671		72,153	
2010	209,739		215,573		90,335	
2011	257,330		244,356		96,096	

* Dry natural gas does not contain any hydrocarbon liquids.

Source	U.S. Energy Information Administration (EIA)
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4-7. Total Production of Energy

Unit: Million Tons of Oil Equivalent (Mtoe)

	China	Japan	ROK	World	OECD	EU27
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.

Source

Statistics Report, International Energy Agency (IEA)

4-8. Energy Consumption Ranking (2010)

Unit: Million Tons of Oil Equivalent (Mtoe)

Rank	Country	TPES
1	China	2,417.13
5	Japan	496.85
10	ROK	250.01

* TPES stands for Total Primary Energy Supply

Unit: Toe/Capita

Energy Consumption per Capita		
Rank	Country	TPES/Population
1	Iceland	16.88
2	Trinidad and Tobago	15.92
21	ROK	5.12
33	Japan	3.9
64	China	1.81

Unit: Toe/Thousand US\$

Energy Consumption per GDP		
Rank	Country	TPES/GDP
1	Dem. Rep. of Congo	2.56
2	Uzbekistan	2.04
29	China	0.63
84	ROK	0.25
127	Japan	0.11

Source Key World Energy Statistics, International Energy Agency (IEA)

4-9. Primary Energy Consumption by Fuel

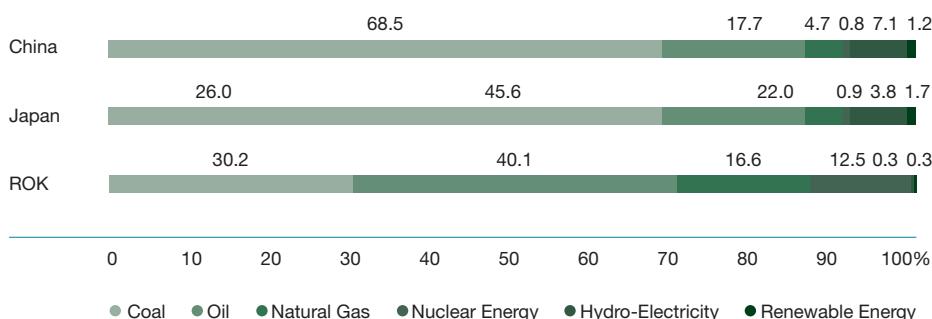
Unit: Million Tons of Oil Equivalent (Mtoe)

	2011			2012		
	China	Japan	ROK	China	Japan	ROK
Oil	459.4	204.7	105.8	483.7	218.2	108.8
Natural Gas	117.5	95.0	41.7	129.5	105.1	45.0
Coal	1,760.8	117.7	83.6	1,873.3	124.4	81.8
Nuclear Energy	19.5	36.9	35.0	22.0	4.1	34.0
Hydro-Electricity	158.2	19.4	1.0	194.8	18.3	0.7
Renewable Energy	25.4	7.5	0.7	31.9	8.2	0.8
Total	2,540.8	481.1	267.9	2,735.2	478.2	271.1

* Primary energy comprises commercially traded fuels, including modern renewable energy used to generate electricity.

Source BP Statistical Review of World Energy

Primary Energy Consumption by Fuel (2012)



4-10. Electricity

Unit: Billion KWh

	Total Net Generation			Total Electric Power Consumption		
	China	Japan	ROK	China	Japan	ROK
2006	2,717.81	1,035.55	379.20	2,525.05	985.321	364.61
2007	3,090.55	1,061.49	401.55	2,874.07	1,010.51	386.20
2008	3,280.67	1,017.20	418.22	3,054.08	965.89	402.12
2009	3,508.39	988.686	425.26	3,271.19	938.16	408.49
2010	3,904.12	1,051.77	467.55	3,633.79	1,002.38	449.51
2011	n/a	1,050.69	485.08	n/a	n/a	n/a
Imports						Exports
	China	Japan	ROK	China	Japan	ROK
2007	4.25	0	0	14.57	0	0
2008	3.84	0	0	16.64	0	0
2009	6.01	0	0	17.39	0	0
2010	5.55	0	0	19.06	0	0
2011	6.56	0	0	19.32	0	0
2012	6.87	0	0	17.65	0	0

Source

U.S. Energy Information Administration (EIA)

4-11. Electricity by Renewable Energy

Unit: Million KWh

China									
	Electricity - Solar Production			Electricity - Wind Production			Electricity - Thermal Production		
	Total	Public	Self-Producer	Total	Public	Self-Producer	Total	Public	Self-Producer
2007	n/a	n/a	n/a	11,226	11,226	0	2,722,933	2,502,103	220,829
2008	n/a	n/a	n/a	13,079	13,079	0	2,790,078	2,505,674	284,404
2009	n/a	n/a	n/a	46,096	46,096	0	2,982,780	2,740,877	241,903
2010	34,558	34,558	0	44,622	44,622	0	3,331,928	3,061,709	270,219
Japan									
	Electricity - Solar Production			Electricity - Wind Production			Electricity - Thermal Production		
	Total	Public	Self-Producer	Total	Public	Self-Producer	Total	Public	Self-Producer
2007	2,015	0	2,015	2,624	6	2,618	779,970	661,083	118,887
2008	2,251	0	2,251	2,946	5	2,941	732,970	621,286	111,684
2009	2,758	0	2,758	2,949	8	2,941	677,444	568,400	109,044
2010	3,799	5	3,794	3,962	38	3,924	729,916	611,214	118,702
ROK									
	Electricity - Solar Production			Electricity - Wind Production			Electricity - Thermal Production		
	Total	Public	Self-Producer	Total	Public	Self-Producer	Total	Public	Self-Producer
2007	70	19	51	376	368	8	278,891	252,577	26,314
2008	285	252	33	436	381	55	289,186	263,209	25,977
2009	566	516	50	685	680	5	299,841	276,010	23,831
2010	772	683	89	817	812	5	342,851	314,463	28,288
Source	United Nations Statistics Division								

4-12. Nuclear Electricity Production

As of 2012				
		China	Japan	ROK
Nuclear Electricity Production (GWh)		98,200	17,073	143,548
Under Operation	Electric Capacity (MWh)	16,878	42,388	20,676
	Number of Reactors	21	48	23
Under Construction	Electric Capacity (MWh)	27,756	2,650	6,380
	Number of Reactors	28	2	5
Shutdown	Permanent Shut-down	0	11	0
	Long-term Shut-down	0	1	0
Energy Availability (%)		89.2	9.8	81.6

* World Nuclear Electricity: 2,346,190 GWh

Source World Statistics, International Atomic Energy Agency (IAEA)

4-13. Nuclear Energy Generation

Unit: Billion KWh

	China	Japan	ROK
2007	62.6	250.6	135.8
2008	65.3	245.2	143.4
2009	66.6	265.8	140.4
2010	70.2	273.8	141.2
2011	83.0	154.8	142.7
Source	U.S. Energy Information Administration (EIA)		

5

Trade

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- 5-24. Bilateral Imports of ROK
- 5-25. Bilateral Trade of ROK in 2012 (Top 10 Merchandise Detailed Products)

5-1. Trade Volumes

Unit: Billion US\$

	World		ASEAN ¹		China		Japan		ROK	
	Export	Import	Export	Import	Export	Import	Export	Import	Export	Import
2002	8,148	8,005	490	444	365	328	461	410	195	186
2003	9,457	9,257	548	481	485	449	527	454	235	216
2004	11,453	11,191	664	597	656	607	637	542	305	271
2005	13,004	12,589	769	696	770	646	673	603	340	317
2006	14,953	14,393	889	786	973	765	729	666	393	375
2007	17,384	16,670	1,015	895	1,255	947	802	719	462	437
2008	19,797	19,232	1,162	1,080	1,494	1,145	890	873	525	526
2009	15,968	15,290	1,011	863	1,260	1,040	669	646	432	401
2010	18,996	18,234	1,245	1,107	1,648	1,425	867	792	549	517
2011	22,535	21,602	1,463	1,334	1,991	1,809	927	970	647	621
2012	22,448	21,738	1,522	1,409	2,167	1,935	918	1022	664	622

Unit: %

	% of World						% of ASEAN + 3					
	China		Japan		ROK		China		Japan		ROK	
	Export	Import	Export	Import	Export	Import	Export	Import	Export	Import	Export	Import
2002	4.5	4.1	5.7	5.1	2.4	2.3	24.2	24.0	30.5	30.0	12.9	13.6
2003	5.2	4.8	5.6	4.9	2.5	2.3	27.0	28.1	29.4	28.4	13.1	13.5
2004	5.8	5.4	5.6	4.8	2.7	2.4	29.0	30.1	28.2	26.9	13.5	13.4
2005	6.5	5.6	5.3	4.8	2.6	2.5	31.9	30.5	25.8	26.1	13.0	13.6
2006	7.2	5.9	4.9	4.6	2.7	2.6	34.5	31.8	23.8	25.0	12.8	14.0
2007	7.8	6.2	4.7	4.3	2.7	2.6	37.0	33.5	22.2	23.4	12.8	14.1
2008	8.0	6.4	4.5	4.5	2.7	2.7	38.1	33.4	21.6	23.8	12.7	14.2
2009	8.4	7.3	4.3	4.2	2.7	2.6	38.5	36.3	19.4	21.2	12.5	13.1
2010	9.3	8.3	4.6	4.4	2.9	2.8	39.7	38.5	19.7	20.2	12.4	13.1
2011	10.7	9.3	4.6	4.6	3.1	2.9	42.4	40.8	18.4	20.6	12.4	12.6
2012	9.7	8.9	4.1	4.7	3.0	2.9	41.1	39.7	17.4	21.0	12.3	12.8

* Trade in goods and service

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

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

1 World Bank Statistics does not include Myanmar's data.

Source

World Bank

5-2. Trade Dependency

Unit: % of GDP

	World	China	Japan	ROK
2002	48.4	47.7	21.2	66.1
2003	49.8	56.9	22.1	70.0
2004	53.5	65.4	24.5	79.8
2005	56.0	62.7	27.2	77.8
2006	59.2	64.1	31.1	80.7
2007	60.9	63.0	33.8	85.7
2008	63.6	58.4	35.2	112.9
2009	53.8	46.1	26.1	99.9
2010	58.7	51.8	30.2	105.0
2011	62.7	51.9	32.2	113.8
2012	61.7	49.9	32.6	113.8

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

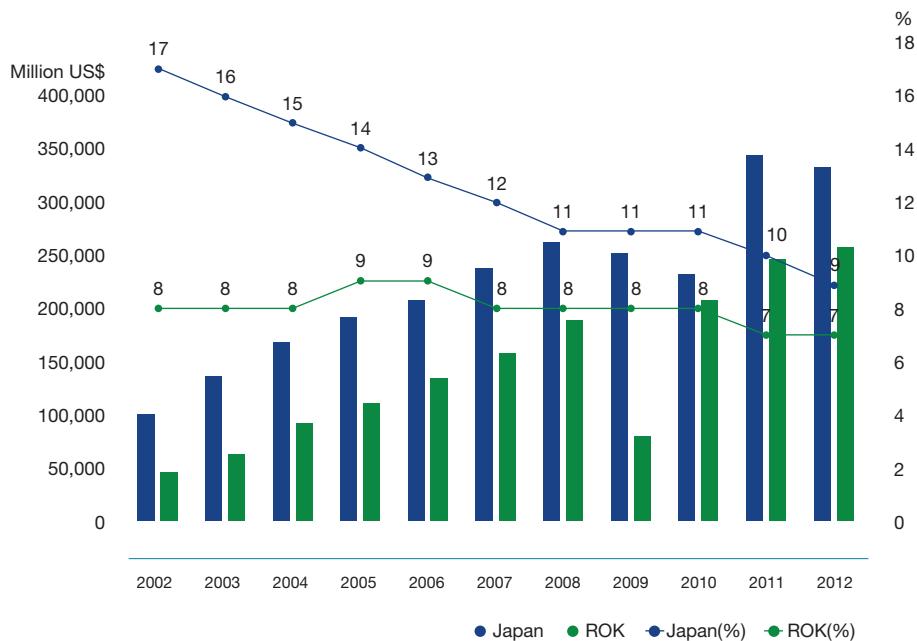
Source World Bank

5-3. Trade Relations among the Three Countries (China)

	China						Unit: Million US \$ (% of Total Trade Value)
	Japan		ROK		Total		
	Exports	Imports	Exports	Imports	Exports	Imports	
2002	48,434 (14.9)	53,466 (19.1)	15,535 (4.8)	28,568 (10.2)	325,595 (100)	280,190 (100)	
2003	59,409 (13.6)	74,148 (19.1)	20,095 (4.6)	43,128 (11.1)	438,227	387,666	
2004	73,509 (12.4)	94,327 (18.1)	27,812 (4.7)	62,234 (11.9)	593,325	522,574	
2005	83,986 (11.0)	100,408 (16.6)	35,108 (4.6)	76,820 (12.7)	761,953	604,790	
2006	91,623 (9.5)	115,673 (16.1)	44,522 (4.6)	89,724 (12.5)	968,935	718,128	
2007	102,062 (8.4)	133,951 (15.4)	56,432 (4.6)	103,752 (11.9)	1,220,059	870,342	
2008	116,132 (8.1)	150,600 (14.5)	73,932 (5.2)	112,138 (10.8)	1,430,692	1,040,101	
2009	97,911 (8.1)	130,938 (14.2)	53,680 (4.5)	102,552 (11.2)	1,201,647	919,141	
2010	121,044 (7.7)	176,736 (13.7)	68,766 (4.4)	138,339 (10.7)	1,577,763	1,289,134	
2011	148,269 (7.8)	194,568 (12.0)	82,920 (4.4)	162,717 (10.0)	1,898,388	1,620,780	
2012	151,627 (7.4)	177,832 (10.6)	87,674 (4.3)	168,728 (10.1)	2,048,781	1,675,269	

Source

World Integrated Trade Solution (WITS), World Bank

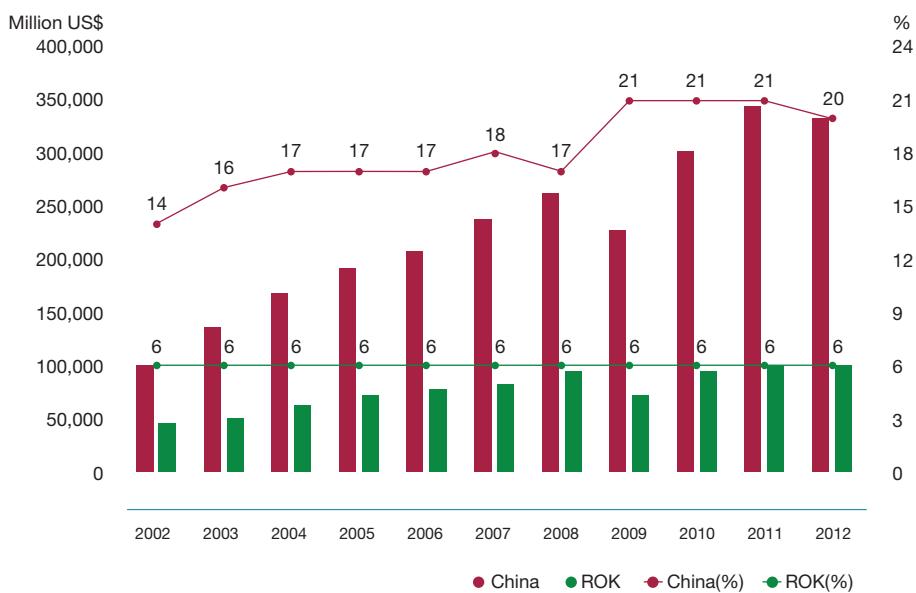


5-4. Trade Relations among the Three Countries (Japan)

Unit: Million US \$ (% of Total Trade Value)

	Japan					
	China		ROK		Total	
	Exports	Imports	Exports	Imports	Exports	Imports
2002	39,810 (9.6)	61,780 (18.4)	28,556 (6.9)	15,480 (4.6)	415,976 (100)	336,674 (100)
2003	57,368 (12.2)	75,448 (19.7)	34,781 (7.4)	17,887 (4.7)	470,793	382,766
2004	73,816 (13.1)	94,273 (20.8)	44,222 (7.8)	22,007 (4.8)	564,555	454,058
2005	79,913 (13.5)	108,409 (21.1)	46,593 (7.9)	24,402 (4.7)	593,520	514,525
2006	92,565 (14.4)	118,455 (20.5)	50,195 (7.8)	27,311 (4.7)	643,717	578,135
2007	109,163 (15.4)	127,903 (20.6)	54,240 (7.6)	27,282 (4.4)	710,709	621,279
2008	124,803 (16.1)	143,211 (18.8)	59,403 (7.7)	29,419 (3.9)	776,206	761,291
2009	109,664 (19.0)	122,562 (22.2)	47,139 (8.2)	21,842 (4.0)	576,234	551,162
2010	149,365 (19.6)	153,138 (22.1)	62,127 (8.1)	28,524 (4.1)	763,422	691,581
2011	161,897 (19.9)	183,861 (21.5)	65,918 (8.1)	39,696 (4.6)	813,119	854,409
2012	144,074 (18.2)	188,416 (21.3)	61,347 (7.8)	40,494 (4.6)	791,543	884,925

Source World Integrated Trade Statistics (WITS), World Bank



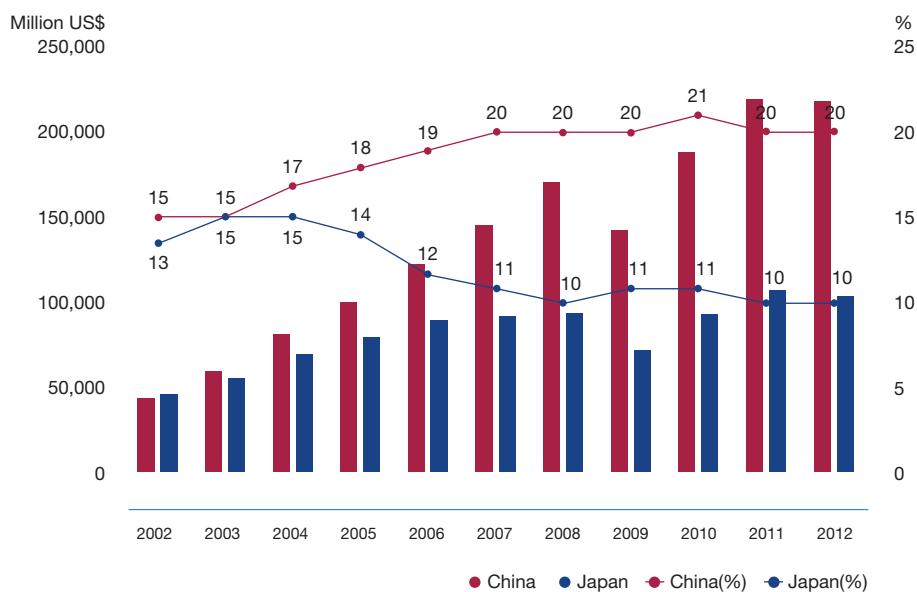
5-5. Trade Relations among the Three Countries (ROK)

Unit: Million US \$ (% of Total Trade Value)

	ROK					
	China		Japan		Total	
	Exports	Imports	Exports	Imports	Exports	Imports
2002	18,172 (14.7)	13,302 (11.6)	16,501 (9.4)	26,562 (19.8)	149,371 (100)	139,455 (100)
2003	23,729 (18.3)	17,397 (12.4)	15,122 (9.0)	29,834 (20.6)	161,526	150,355
2004	35,068 (19.8)	21,892 (13.4)	17,270 (8.6)	36,292 (20.9)	191,850	175,873
2005	49,701 (21.8)	29,532 (14.8)	21,693 (8.5)	46,117 (18.6)	250,861	220,894
2006	61,858 (21.4)	38,636 (15.8)	24,022 (8.2)	48,364 (16.8)	284,153	260,291
2007	69,389 (22.1)	48,551 (17.7)	26,525 (7.1)	51,846 (15.8)	324,625	308,238
2008	81,903 (21.7)	63,015 (17.7)	26,339 (6.7)	56,146 (14.0)	370,772	355,151
2009	91,319 (24.0)	76,918 (16.8)	28,182 (6.0)	60,864 (15.3)	420,675	433,976
2010	86,605 (25.2)	54,241 (16.9)	21,542 (6.1)	49,285 (15.1)	360,698	321,958
2011	116,719 (24.3)	71,569 (16.5)	28,072 (7.2)	63,937 (13.0)	463,394	423,635
2012	134,075 (24.6)	86,408 (15.6)	39,561 (7.1)	68,012 (12.4)	552,069	522,690

Source

World Integrated Trade Statistics (WITS), World Bank



5-6. Top 10 Export Markets (2012)

Unit: Million US \$(%)

Rank		China	Japan		ROK
1	USA	352,540	China	144,226	China
2	Hong Kong	323,654	USA	142,009	USA
3	Japan	151,509	ROK	61,526	Japan
4	ROK	87,646	Thailand	43,717	Hong Kong
5	Germany	69,175	Hong Kong	41,062	Singapore
6	Netherlands	58,917	Singapore	23,302	Vietnam
7	India	47,745	Germany	20,799	Indonesia
8	UK	46,279	Australia	18,415	India
9	Russia	44,073	Malaysia	17,704	Mexico
10	Singapore	40,321	Netherlands	16,158	Germany
	others	945,391	others	389,082	others
					317,767

Source Country Profile (2013), Asian Development Bank (ADB)

5-7. Revealed Comparative Advantage (RCA) Index

RCA Indexes: Average 2008-2012										
Rank	China			Japan			ROK			
	HS Code (2 digit)	RCA	HS Code (2 digit)	RCA	HS Code (2 digit)	RCA				
1	66	Umbrella, sun umbrellas, walking-sticks	6.95	37	Photographic or cinematographic goods	5.14	89	Ships, boats and floating structures	9.19	
2	46	Manufactures of straw, of esparto	6.90	89	Ships, boats and floating structures	2.99	60	Knitted or crocheted fabrics	4.51	
3	67	Prepared feathers and down and articles	6.17	87	Vehicles other than railway or tramway	2.60	54	Man-made filaments; strip and the like of manmade	2.39	
4	50	Silk	4.71	92	Musical instruments; parts and accessories of such	2.44	90	Optical, photographic, cinematographic, measuring,	2.31	
5	65	Headgear and parts thereof	4.39	81	Other base metals; cermets; articles thereof	1.95	79	Zinc and articles thereof	2.30	
6	63	Other made up textile articles; sets; worn clothing	3.89	72	Iron and steel	1.92	59	Impregnated, coated, covered or laminated textile	1.88	
7	61	Articles of apparel and clothing accessories, knit	3.71	70	Glass and glassware	1.82	72	Iron and steel	1.80	
8	42	Articles of leather; saddlery and harness; travel	3.70	90	Optical, photographic, cinematographic, measuring,	1.68	85	Electrical machinery and equipment and parts there	1.76	
9	64	Footwear, gaiters	3.52	84	Nuclear reactors, boilers, machinery and mechanica	1.58	29	Organic chemicals	1.60	
10	58	Special woven fabrics; tufted textile fabrics;	3.40	38	Miscellaneous chemical products	1.55	39	Plastics and articles thereof	1.59	

* 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 $\text{RCA} > 1$, and has a comparative disadvantage when $\text{RCA} < 1$.

Source World Integrated Trade Solution (WITS) using UNSD COMTRADE data, World Bank

5-8. RCA: Average 1990-2000 and 2001-2012

Revealed Comparative Advantage (RCA) Index										
RCA Index: Average 1990-2000										
Rank		China			Japan			ROK		
		HS Code (2 digit)	RCA		HS Code (2 digit)	RCA		HS Code (2 digit)	RCA	
1	46	Manufactures of straw, of esparto	15.98	92	Musical instruments, parts & accessories	3.2	54	Man-made filaments, inc. yarns & woven etc.	7.17	
2	66	Umbrella, sun umbrellas, walking-sticks	11.08	89	Ships, boats & floating structures	2.99	89	Ships, boats & floating structures	6.35	
3	50	Silk	10.43	37	Photographic or cinematographic goods	2.52	60	Knitted or crocheted fabrics	5.17	
4	67	Prepared feathers, human hair & articles thereof, artificial flowers	9.47	87	Vehicles other than railway or tramway rolling stock	2.04	50	Silk, inc. yarns & woven fabrics thereof	4.6	
5	42	Articles of leather, saddlery & harness, travel goods, handbags	7.15	90		1.96	42	Articles of leather, saddlery & harness, travel goods, handbags	4.1	
6	5	Products of animal origin	5.79	85	Electrical machinery & equip. & parts, telecommunication equip., sound recorders, television	1.74	59	Impregnated, coated, covered, or laminated textile prod, textile prod for industrial use	4.06	
7	63	Made-up textile articles nesoi, needlecraft sets	5.63	96	Miscellaneous manufactured articles	1.65	58	Special woven fabrics, tufted textiles, lace	3.89	
8	65	Headgear & other parts	5.61	84	Nuclear reactors, builders machinery & mechanical appliances	1.49	65	Headgear & other parts	3.82	
9	62	Articles of apparel & clothing accessories-not knitted	5.47	72	Iron & steel	1.31	67	Prepared feathers, human hair & articles thereof, artificial flowers	3.55	
10	53	Veg. textile fibers nesoi, yarns & woven etc.	5.44	40	Rubbers & articles thereof	1.3	86	Railway or tramway locomotives, rolling stock, track fixtures & fittings, signals	3.43	

RCA Index: Average 2001-2012											
Rank		China				Japan				ROK	
		HS Code (2 digit)	RCA	HS Code (2 digit)	RCA	HS Code (2 digit)	RCA	HS Code (2 digit)	RCA		
1	46	Manufactures of straw, of esparto	8.28	37	Photographic or cinematographic goods	4.34	89	Ships, boats & floating structures	9		
2	66	Umbrella, sun umbrellas, walking-sticks	7.8	89	Ships, boats & floating structures	2.97	60	Knitted or crocheted fabrics	5.11		
3	67	Prepared feathers, human hair & articles thereof, artificial flowers	6.57	87	Vehicles other than railway or tramway rolling stock	2.46	54	Man-made filaments, inc., yarns & woven etc.	3.1		
4	50	Silk	5.56	92	Musical instruments, parts & accessories	2.44	59	Impregnated, coated, covered, or laminated textile prod, textile prod for industrial use	2.64		
5	42	Articles of leather, saddlery & harness, travel goods, handbags	4.47	90	Optical, photographic, cinematographic, measuring, checking, precision, medical or surgical instruments & accessories	1.79	79	Zinc & articles thereof	2.14		
6	65	Headgear & other parts	4.46	81	Base metals nesoi, cermets, articles etc.	1.71	58	Special woven fabrics, tufted textiles, lace	2.11		
7	63	Made-up textile articles nesoi, needlecraft sets	4.06	72	Iron & steel	1.66	85	Electrical machinery & equip. & parts, telecommunication equip., sound recorders, television	1.87		
8	95	Toys, games & sports equip, parts & acces.	3.9	84	Nuclear reactors, builders machiery & mechanical appliances	1.5	55	Man-made staple fibers, inc., yarns etc.	1.78		
9	64	Footwear, gaiters & the like	3.81	70	Glass & glassware	1.49	72	Iron & steel	1.69		
10	61	Articles of apparel & cloathing accessories-knitted or crocheted	3.68	40	Rubbers & articles thereof	1.48	90	Optical, photographic, cinematographic, measuring, checking, precision, medical or surgical instruments & accessories	1.57		

* 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 $\text{RCA} > 1$, and has a comparative disadvantage when $\text{RCA} < 1$.

** The blue boxes in 'RCA Index: Average 1990-2000' shows products which are not included in the top 10 RCA index in 'RCA Index: Average 2001-2012'. The blue boxes in 'RCA Index: Average 2001-2012' shows products which are not included in the top 10 RCA index in 'RCA Index: Average 1990-2000'.

5-9. Balance of Trade

Unit: Million US \$ (% of GDP)

	China	Japan	ROK
2001	28,084 (2.1)	26,613 (0.6)	11,415 (2.3)
2002	37,383 (2.6)	53,413 (1.3)	8,497 (1.5)
2003	36,079 (2.2)	71,223 (1.7)	14,603 (2.3)
2004	49,284 (2.6)	91,128 (2.0)	30,018 (4.2)
2005	124,798 (5.5)	64,360 (1.4)	22,829 (2.7)
2006	208,912 (7.7)	54,753 (1.3)	13,199 (1.4)
2007	307,477 (8.8)	73,655 (1.7)	15,849 (1.5)
2008	348,870 (7.7)	9,408 (0.2)	-10,969 (-1.2)
2009	220,100 (4.4)	18,454 (0.4)	30,900 (3.7)
2010	232,074 (3.9)	65,656 (1.2)	28,299 (2.8)
2011	297,805 (4.1)	-53,893 (-0.9)	22,575 (2.0)

* Goods and Services

** The balance of trade is the earnings on exports of goods and services minus payments for imports of goods and services.

Source World Bank

5-10. Trade in Goods and Services

Unit: Million US \$

	Goods					
	China		Japan		ROK	
	Exports	Imports	Exports	Imports	Exports	Imports
2005	681,308	561,649	570,982	464,018	289,873	257,016
2006	859,607	663,503	619,219	524,113	336,495	305,061
2007	1,107,850	817,033	680,623	560,022	389,569	352,439
2008	1,327,580	985,716	749,118	693,841	434,652	429,481
2009	1,116,150	880,969	548,145	490,054	358,190	320,324
2010	1,476,230	1,230,690	735,436	626,912	461,445	421,362
2011	1,805,900	1,569,850	789,951	794,425	551,765	520,105
2012	1,970,950	1,653,350	776,640	830,123	552,709	514,171
	Services					
	China		Japan		ROK	
	Exports	Imports	Exports	Imports	Exports	Imports
2005	89,150	84,183	101,961	139,013	49,745	59,696
2006	113,851	101,037	109,346	141,407	56,842	70,174
2007	147,511	130,287	121,579	158,677	72,995	84,962
2008	165,990	159,018	141,040	178,976	90,634	96,369
2009	144,185	159,233	120,914	155,754	73,580	80,221
2010	171,490	194,005	131,215	164,880	87,282	95,908
2011	184,763	238,909	137,349	175,780	95,257	101,107
2012	196,302	282,055	134,186	184,689	110,854	108,178

Source

World Bank

5-11. Top 10 Export Commodities of China (2010 to 2012)

Unit: Million US \$

Rank	HS-4 digits	Products	2010			2011			2012	
			Export value	HS-4 digits	Products	Export value	HS-4 digits	Products	Export value	
1	8471	Automatic data procesing machines and Units thereof	139,100	8471	Automatic data processing machines and Units thereof	152,029	8471	Automatic data procesing machines and Units thereof	163,437	
2	8517	Electrical apparatus for line telephony or line telegraphy	105,976	8517	Electrical apparatus for line telephony or line telegraphy	133,414	8517	Electrical apparatus for line telephony or line telegraphy	153,185	
3	8901	Vessels for the transport of persons or goods	35,190	8901	Cruise ships, excursion boats, ferry-boats, cargo ships, barges	37,100	8542	Electronic integrated circuits & microassembly	53,745	
4	8541	Semiconductor devices, light-emit diodes	32,003	8541	Diodes, transistors and similar semiconductor devices	35,428	9013	Liquid crystal device, lasers	38,715	
5	8528	Microphones, loudspeakers, sound amplifier	31,889	8542	Electronic integrated circuits & microassembly	32,900	8901	Cruise ships, excursion boats, ferry-boats, cargo ships, barges	31,838	
6	8473	Parts etc for typewriters & other office machines computer accessories	31,313	9013	Liquid crystal device, lasers	31,682	8473	Parts etc for typewriters & other office machines computer accessories	30,425	
7	8542	Electronic integrated circuits & microassembly	29,608	8473	Parts etc for typewriters & other office machines computer accessories	30,642	8528	Microphones, loudspeakers, sound amplifier	27,740	
8	9013	Liquid crystal device, lasers	27,853	8528	Microphones, loudspeakers, sound amplifier	30,291	8541	Diodes, transistors and similar semiconductor devices	27,337	
9	8443	Printing machinery, machines for uses ancillary to printing	23,581	8443	Printing machinery, machines for uses ancillary to printing	25,124	9403	Furniture	27,018	
10	8504	Electrical transformers, static converters	20,194	4202	Travel goods, handbags, wallets, jewelry cases	23,941	4202	Travel goods, handbags, wallets, jewelry cases	25,310	
All Commodities			1,577,764	All Commodities			1,898,388	All Commodities		
Source United Nations Commodity Trade (UNCOMTRADE) Database										

5-12. Top 10 Import Commodities of China (2010 to 2012)

Unit: Million US \$									
Rank	HS-4 digits	Products	2010			2011			2012
			Import value	HS-4 digits	Products	Import value	HS-4 digits	Products	
1	8542	Electronic integrated circuits & microassembly	158,010	2709	Crude oil from petroleum and bituminous minerals	196,771	2709	Crude oil from petroleum and bituminous minerals	220,794
2	2709	Crude oil from petroleum and bituminous minerals	135,300	8542	Electronic integrated circuits & microassembly	171,142	8542	Electronic integrated circuits & microassembly	192,967
3	2601	Iron ores & concentrates, including roast pyrites	79,722	2601	Iron ores & concentrates, including roast pyrites	112,409	2601	Iron ores & concentrates, including roast pyrites	95,619
4	9013	Liquid crystal device, lasers	51,505	9013	Liquid crystal device, lasers	53,140	9999	Other items	68,769
5	8703	Motor cars & vehicles for transporting persons	28,921	9999	Other items	49,498	9013	Liquid crystal device, lasers	55,868
6	8471	Automatic data process machines, magnetic reader, computer hardware	26,856	8703	Motor cars & vehicles for transporting persons	40,965	8703	Motor cars & vehicles for transporting persons	45,492
7	1201	Soybeans	25,093	2710	Oil (not crude) from petroleum & bituminous minerals	32,776	8517	Electrical apparatus for line telephony or line telegraphy	39,127
8	8517	Electrical apparatus for line telephony or line telegraphy	22,487	8517	Electrical apparatus for line telephony or line telegraphy	30,862	1201	Soybeans	34,977
9	2710	Oil (not crude) from petroleum & bituminous minerals	22,435	1201	Soybeans	29,726	8471	Automatic data process machines, magnetic reader, computer hardware	34,886
10	8541	Semiconductor devices, light-emitting diodes	22,347	8471	Automatic data process machines, magnetic reader, computer hardware	29,351	2710	Oil (not crude) from petroleum & bituminous minerals	33,033
All Commodities			1,396,002	All Commodities			1,743,395	All Commodities	
Source		United Nations Commodity Trade (UNCOMTRADE) Database							

5-13. Top 10 Export Commodities of Japan (2010 to 2012)

Unit: Million US \$

Rank	HS-4 digits	Products	2010			2011			2012	
			Export value	HS-4 digits	Products	Export value	HS-4 digits	Products	Export value	
1	8703	Motor cars & vehicles for transporting persons	90,379	8703	Motor cars & vehicles for transporting persons	87,338	8703	Motor cars & vehicles for transporting persons	97,460	
2	9999	Other items	40,037	9999	Other items	39,383	8708	parts & access for motor vehicles	39,699	
3	8708	parts & access for motor vehicles	35,073	8708	parts & access for motor vehicles	37,489	9999	Other items	35,510	
4	8542	Electronic integrated circuits & microassembly	34,533	8542	Electronic integrated circuits & microassembly	32,013	8542	Electronic integrated circuits & microassembly	30,588	
5	8901	Vessels for the transport of persons or goods	25,592	8901	Vessels for the transport of persons or goods	25,683	8901	Vessels for the transport of persons or goods	21,473	
6	8486	Manufacture of semiconductor boulds or wafers	19,071	8486	Manufacture of semiconductor boulds or wafers	20,960	8486	Manufacture of semiconductor boulds or wafers	14,655	
7	8443	Printing machinery, machine ancil to printing	15,204	8443	Printing machinery, machine ancil to printing	15,136	8443	Printing machinery, machine ancil to printing	13,749	
8	8541	Semiconductor devices, light-emit diodes	12,396	2710	Oil (not crude) from petroleum & bituminous minerals	14,584	8704	Motor vehicles for transport of goods	12,513	
9	2710	Oil (not crude) from petroleum & bituminous minerals	11,643	8541	Semiconductor devices, light-emit diodes	12,257	2710	Oil (not crude) from petroleum & bituminous minerals	11,653	
10	8704	Motor vehicles for transport of goods	10,279	8429	Self-propelled bulldozers, graders, scrapers	11,643	8429	Self-propelled bulldozers, graders, scrapers	11,421	
All Commodities			769,839	All Commodities			823,184	All Commodities		

Source

United Nations Commodity Trade (UNCOMTRADE) Database

5-14. Top 10 Import Commodities of Japan (2010 to 2012)

Rank	HS-4 digits	Products	2010			2011			2012	
			Import value	HS-4 digits	Products	Import value	HS-4 digits	Products	Import value	
1	2709	Crude oil from petroleum and bituminous minerals	105,775	2709	Crude oil from petroleum and bituminous minerals	142,101	2709	Crude oil from petroleum and bituminous minerals	153,103	
2	2711	Petroleum gases & other gaseous hydrocarbons	48,278	2711	Petroleum gases & other gaseous hydrocarbons	71,317	2711	Petroleum gases & other gaseous hydrocarbons	88,022	
3	2701	Coal, briquettes, ovoids	23,946	2701	Coal, briquettes, ovoids	30,908	2710	Oil (not crude) from petroleum & bituminous minerals	30,026	
4	8542	Electronic integrated circuits & microassembly	20,413	2710	Oil (not crude) from petroleum & bituminous minerals	28,880	2701	Coal, briquettes, ovoids	29,037	
5	2710	Oil (not crude) from petroleum & bituminous minerals	18,744	2601	Iron ores & concentrates, including roast pyrites	21,449	8517	Electrical apparatus for line telephony or line telegraphy	25,520	
6	2601	Iron ores & concentrates, including roast pyrites	15,316	8517	Electrical apparatus for line telephony or line telegraphy	18,754	2601	Iron ores & concentrates, including roast pyrites	19,232	
7	8471	Automatic data process machines, magnetic reader, computer hardware	14,464	8542	Electronic integrated circuits & microassembly	17,967	8542	Electronic integrated circuits & microassembly	17,424	
8	8517	Electrical apparatus for line telephony or line telegraphy	13,444	8471	Automatic data process machines, magnetic reader, computer hardware	17,040	8471	Automatic data process machines, magnetic reader, computer hardware	16,997	
9	9999	Other items	11,965	3004	Medicaments	13,903	3004	Medicaments	16,697	
10	2603	Copper ores and concentrates	11,705	9999	Other items	12,321	9999	Other items	12,214	
All Commodities			692,621	All Commodities			855,380	All Commodities		
Source		United Nations Commodity Trade (UNCOMTRADE) Database								

5-15. Top 10 Export Commodities of ROK (2010 to 2012)

Unit: Million US \$

Rank	HS-4 digits	Products	2010			2011			2012	
			Export value	HS-4 digits	Products	Export value	HS-4 digits	Products	Export value	
1	8542	Electronic integrated circuits & microassembly	37,904	2710	Oil (not crude) from petroleum & bituminous minerals	50,371	2710	Oil (not crude) from petroleum & bituminous minerals	54,726	
2	8901	Vessels for the transport of persons or goods	37,208	8703	Motor cars & vehicles for transporting persons	40,910	8703	Motor cars & vehicles for transporting persons	42,388	
3	8703	Motor cars & vehicles for transporting persons	31,782	8542	Electronic integrated circuits & microassembly	39,665	8542	Electronic integrated circuits & microassembly	41,347	
4	2710	Oil (not crude) from petroleum & bituminous minerals	30,163	8901	Vessels for the transport of persons or goods	37,970	8901	Vessels for the transport of persons or goods	30,566	
5	9013	Liquid crystal devices, lasers	30,077	9013	Liquid crystal devices, lasers	27,656	9013	Liquid crystal devices, lasers	27,525	
6	8517	Electronic apparatus for line telephony, telephone sets	25,882	8517	Electronic apparatus for line telephony, telephone sets	25,802	8708	parts & access for motor vehicles	22,632	
7	8708	parts & access for motor vehicles	17,822	8708	parts & access for motor vehicles	21,583	8517	Electronic apparatus for line telephony, telephone sets	20,962	
8	8905	Light-vessel, fire-floats, fl docks & platforms	9,408	8905	Light-vessel, fire-floats, fl docks & platforms	16,044	2902	Cyclic hydrocarbons	9,066	
9	8529	Parts for television, radio and radar apparatus	8,267	8529	Parts for television, radio and radar apparatus	8,444	8905	Light-vessel, fire-floats, fl docks & platforms	7,216	
10	8473	Parts etc for typewriters & other office machines computer accessories	8,037	2902	Cyclic hydrocarbons	7,987	8529	Parts for television, radio and radar apparatus	7,092	
			All Commodities	466,380		All Commodities	555,209		All Commodities	547,854

Source

United Nations Commodity Trade (UNCOMTRADE) Database

5-16. Top 10 Import Commodities of ROK (2010 to 2012)

Unit: Million US \$										
Rank	HS-4 digits	Products	2010			2011			2012	
			Import value	HS-4 digits	Products	Import value	HS-4 digits	Products		
1	2709	Crude oil from petroleum and bituminous minerals	68,662	2709	Crude oil from petroleum and bituminous minerals	100,806	2709	Crude oil from petroleum and bituminous minerals	108,298	
2	8542	Electronic integrated circuits & microassembly	23,836	2711	Petroleum gases & other gaseous hydrocarbons	30,183	2711	Petroleum gases & other gaseous hydrocarbons	33,834	
3	2711	Petroleum gases & other gaseous hydrocarbons	21,789	8542	Electronic integrated circuits & microassembly	25,370	2710	Oil (not crude) from petroleum & bituminous minerals	25,701	
4	2710	Oil (not crude) from petroleum & bituminous minerals	17,330	2710	Oil (not crude) from petroleum & bituminous minerals	22,030	8542	Electronic integrated circuits & microassembly	25,422	
5	2701	Coal, briquettes, ovoids	12,863	2601	Iron ores & concentrates, including roast pyrites	18,284	2701	Coal, briquettes, ovoids	15,908	
6	8486	Manufacture of semiconductor boules or wafers	11,076	8486	Manufacture of semiconductor boules or wafers	11,381	2601	Iron ores & concentrates, including roast pyrites	9,532	
7	7208	Flat-roll iron & non-alloy steel of width of 600mm or more, hot-rolled, not clad	7,718	8517	Electronic apparatus for line telephony, telephone sets	10,336	8486	Manufacture of semiconductor boules or wafers	8,219	
8	2601	Iron ores & concentrates, including roast pyrites	6,646	7208	Flat-roll iron & non-alloy steel of width of 600mm or more, hot-rolled, not clad	8,493	7208	Flat-roll iron & non-alloy steel of width of 600mm or more, hot-rolled, not clad	5,995	
9	8517	Electronic apparatus for line telephony, telephone sets	5,898	2603	Copper ores and concentrates	7,775	8517	Electronic apparatus for line telephony, telephone sets	5,373	
10	8541	Semiconductor devices, light-emitting diodes	4,683	7204	Ferrous waste & scrap, remelting scrap iron/steel ingot	5,634	7204	Ferrous waste & scrap, remelting scrap iron/steel ingot	4,867	
All Commodities			425,208	All Commodities			524,405	All Commodities		519,576

Source

United Nations Commodity Trade (UNCOMTRADE) Database

5-17. Bilateral Exports of China

Unit: Million US\$

China's Exports									
	Japan	2010	2011	2012		ROK	2010	2011	2012
1	Machinery and transport equipment	50,927	57,896	62,662	Machinery and transport equipment	31,963	35,817	42,151	
2	Miscellaneous manufactured articles	34,831	42,791	45,938	Manufactured goods	15,927	20,463	19,142	
3	Manufactured goods	14,707	20,426	18,747	Miscellaneous manufactured articles	9,148	11,845	12,466	
4	Chemicals and related products, n.e.s.	7,605	11,024	8,894	Chemicals and related products, n.e.s.	5,531	7,376	6,782	
5	Food and live animals	8,252	9,883	10,767	Food and live animals	2,974	3,532	3,395	
6	Mineral fuels, lubricants and related materials	2,032	3,087	2,472	Mineral fuels, lubricants and related materials	1,971	2,390	2,166	
7	Crude materials, inedible, except fuels	1,745	2,051	2,018	Crude materials, inedible, except fuels	1,178	1,411	1,448	
8	Commodities and transactions, n.e.s.	856	1,014	6	Animal and vegetable oils, fats and waxes	34	30	22	
9	Beverages and tobacco	61	64	79	Beverages and tobacco	33	29	37	
10	Animal and vegetable oils, fats and waxes	28	33	43	Commodities and transactions, n.e.s.	7	28	59	
	Total	121,044	148,269	151,627		68,766	82,920	87,671	

* The products are categorized by SITC sections.

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

5-18. Bilateral Imports of China

Unit: Million US \$

China's Imports								
	Japan	2010	2011	2012	ROK	2010	2011	2012
1	Machinery and transport equipment	101,720	112,164	98,678,698	Machinery and transport equipment	67,649,000	76,737,769	84,201,703
2	Manufactured goods	25,250	27,456	24,780,300	Miscellaneous manufactured articles	25,261,376	27,573,815	26,744,734
3	Chemicals and related products, n.e.s.	23,242	25,885	25,140,633	Chemicals and related products, n.e.s.	22,013,294	27,355,934	27,913,372
4	Miscellaneous manufactured articles	18,498	20,704	20,911,585	Manufactured goods	13,171,191	14,608,827	13,860,480
5	Crude materials, inedible, except fuels	4,705	5,387	5,730,942	Mineral fuels, lubricants and related materials	7,841,627	12,727,966	11,540,278
6	Mineral fuels, lubricants and related materials	2,325	2,406	2,107,466	Crude materials, inedible, except fuels	1,611,787	2,145,507	1,925,413
7	Commodities and transactions, n.e.s.	481	294	157,996	Commodities and transactions, n.e.s.	398,754	1,004,614	1,985,199
8	Food and live animals	483	250	284,907	Food and live animals	353,671	511,420	488,565
9	Beverages and tobacco	20	12	27,607	Beverages and tobacco	34,112	43,512	59,069
10	Animal and vegetable oils, fats and waxes	12	10	12,202	Animal and vegetable oils, fats and waxes	4,411	7,478	9,591
	Total	176,736	194,568	177,832		138,339	162,717	168,728

* The products are categorized by SITC sections.

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

5-19. Bilateral Trade of China in 2012 (Top 10 Merchandise Detailed Products)

Unit: Million US \$

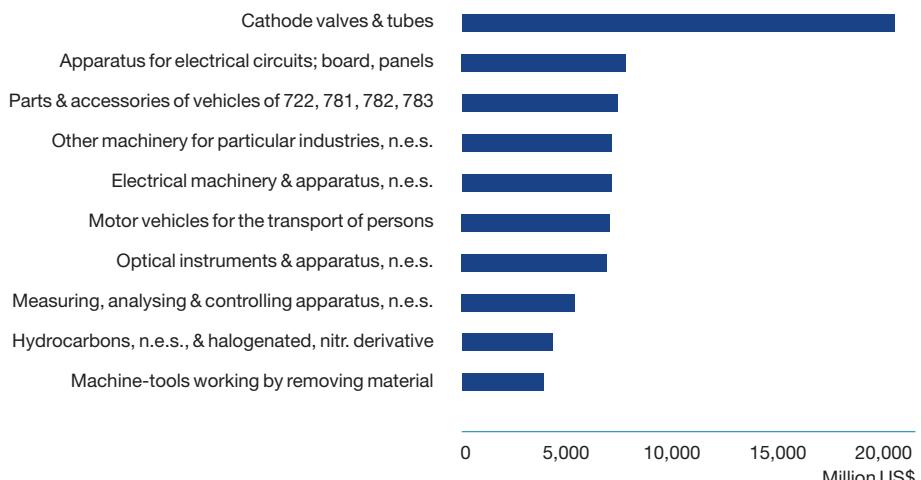
Rank	Japan		ROK	
Export				
1	[764] Telecommunication equipment, n.e.s.; & parts, n.e.s.	11,270	[764] Telecommunication equipment, n.e.s.; & parts, n.e.s.	17,572
2	[752] Automatic data processing machines, n.e.s.	9,792	[776] Cathode valves & tubes	4,561
3	[845] Articles of apparel, of textile fabrics, n.e.s.	7,522	[752] Automatic data processing machines, n.e.s.	3,305
4	[842] Women's clothing, of textile fabrics	4,680	[871] Optical instruments & apparatus, n.e.s.	2,898
5	[821] Furniture & parts	3,863	[675] Flat-rolled products of alloy steel	2,453
6	[841] Men's clothing of textile fabrics, not knitted	3,712	[793] Ships, boats & floating structures	2,301
7	[775] Household type equipment, electrical or not, n.e.s.	3,712	[676] Iron & steel bars, rods, angles, shapes & sections	2,213
8	[776] Cathode valves & tubes	3,505	[772] Apparatus for electrical circuits; board, panels	1,729
9	[894] Baby carriages, toys, games & sporting goods	3,251	[682] Copper	1,684
10	[772] Apparatus for electrical circuits; board, panels	2,879	[674] Flat-rolled prod., iron, non-alloy steel, coated, clad	1,610
Import				
1	[776] Cathode valves & tubes	19,690	[776] Cathode valves & tubes	43,104
2	[772] Apparatus for electrical circuits; board, panels	8,187	[871] Optical instruments & apparatus, n.e.s.	20,335
3	[784] Parts & accessories of vehicles of 722, 781, 782, 783	7,699	[764] Telecommunication equipment, n.e.s.; & parts, n.e.s.	10,090
4	[728] Other machinery for particular industries, n.e.s.	7,221	[334] Petroleum oils or bituminous minerals > 70 % oil	9,197
5	[778] Electrical machinery & apparatus, n.e.s.	6,985	[511] Hydrocarbons, n.e.s., & halogenated, nitr. derivative	8,573
6	[781] Motor vehicles for the transport of persons	6,927	[772] Apparatus for electrical circuits; board, panels	5,002
7	[871] Optical instruments & apparatus, n.e.s.	6,910	[513] Carboxylic acids, anhydrides, halides, per.; derivati.	3,398
8	[874] Measuring, analysing & controlling apparatus, n.e.s.	5,391	[778] Electrical machinery & apparatus, n.e.s.	3,254
9	[511] Hydrocarbons, n.e.s., & halogenated, nitr. derivative	5,047	[575] Other plastics, in primary forms	3,066
10	[731] Machine-tools working by removing material	4,917	[784] Parts & accessories of vehicles of 722, 781, 782, 783	2,750

* Product 722 is 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.

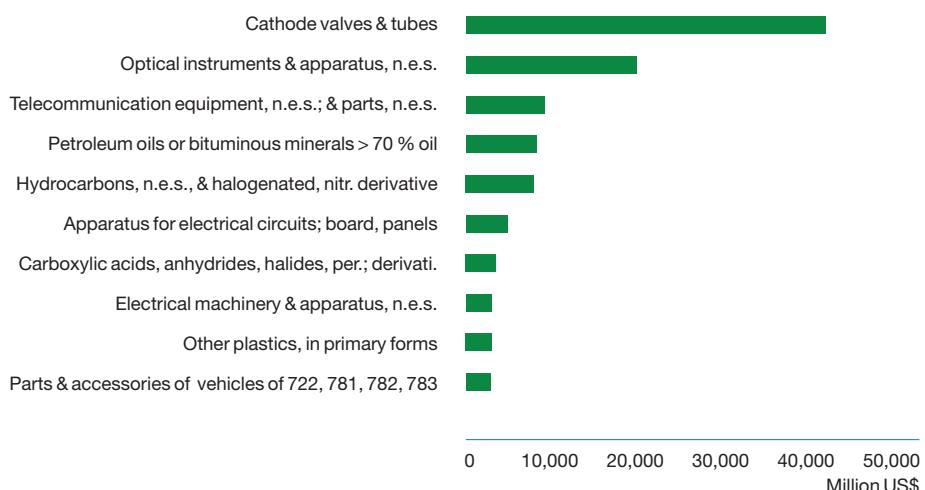
Source

United Nations Conference on Trade and Development (UNCTAD) Statistics

China's Import from Japan in 2012



China's Import from ROK in 2012



5-20. Bilateral Exports of Japan

Unit: Million US \$

Japan's Exports									
	China	2010	2011	2012	ROK	2010	2011	2012	
1	Machinery and transport equipment	81,25	88,911	75,145	Machinery and transport equipment	22,114	22,581	20,105	
2	Manufactured goods	21,654	22,823	19,995	Chemicals and related products, n.e.s.	14,671	15,918	14,901	
3	Chemicals and related products, n.e.s.	19,152	21,103	19,949	Manufactured goods	14,076	14,941	12,687	
4	Miscellaneous manufactured articles	12,553	14,644	14,582	Miscellaneous manufactured articles	5,301	5,574	6,051	
5	Commodities and transactions, n.e.s.	7,668	6,787	6,711	Commodities and transactions, n.e.s.	2,484	2,461	2,449	
6	Crude materials, inedible, except fuels	4,628	5,289	5,548	Crude materials, inedible, except fuels	2,015	2,200	2,732	
7	Mineral fuels, lubricants and related materials	2,058	2,171	1,891	Mineral fuels, lubricants and related materials	1,240	2,064	2,250	
8	Food and live animals	473	300	324	Food and live animals	376	334	267	
9	Beverages and tobacco	39	19	48	Beverages and tobacco	59	60	64	
10	Animal and vegetable oils, fats and waxes	14	15	15	Animal and vegetable oils, fats and waxes	33	35	33	
	Total	149,464	162,062	144,208		Total	62,369	66,167	61,538

* The products are categorized by SITC sections.

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

5-21. Bilateral Imports of Japan

Unit: Million US \$

Japan's Imports									
	China	2010	2011	2012	ROK	2010	2011	2012	
1	Machinery and transport equipment	67,613	78,065	83,593	Machinery and transport equipment	10,363	12,266	12,546	
2	Miscellaneous manufactured articles	46,121	54,681	57,583	Mineral fuels, lubricants and related materials	3,789	8,703	10,146	
3	Manufactured goods	17,376	22,501	21,653	Manufactured goods	5,908	8,539	7,771	
4	Chemicals and related products, n.e.s.	8,646	13,190	10,222	Chemicals and related products, n.e.s.	3,073	4,055	4,020	
5	Food and live animals	7,851	9,172	9,833	Miscellaneous manufactured articles	1,805	1,728	1,803	
6	Crude materials, inedible, except fuels	1,974	2,501	2,522	Food and live animals	1,403	1,652	1,721	
7	Mineral fuels, lubricants and related materials	1,819	1,906	1,280	Crude materials, inedible, except fuels	927	1,249	870	
8	Commodities and transactions, n.e.s.	1,646	1,696	1,615	Commodities and transactions, n.e.s.	1,034	1,176	1,253	
9	Beverages and tobacco	77	72	86	Beverages and tobacco	276	422	455	
10	Animal and vegetable oils, fats and waxes	31	35	47	Animal and vegetable oils, fats and waxes	3	8	7	
	Total	153,155	183,818	188,435		Total	28,581	39,798	40,593

* The products are categorized by SITC sections.

Source

United Nations Conference on Trade and Development (UNCTAD) Statistics

5-22. Bilateral Trade of Japan in 2012 (Top 10 Merchandise Detailed Products)

Unit: Million US\$

Rank	China		ROK	
	Export			
1	[776] Cathode valves & tubes	12,268	[728] Other machinery for particular industries, n.e.s.	4,511
2	[784] Parts & accessories of vehicles of 722, 781, 782, 783	7,436	[582] Plates, sheets, films, foil & strip, of plastics	3,632
3	[728] Other machinery for particular industries, n.e.s.	6,332	[511] Hydrocarbons, n.e.s., & halogenated, nitr. derivative	2,922
4	[772] Apparatus for electrical circuits; board, panels	5,587	[776] Cathode valves & tubes	2,796
5	[781] Motor vehicles for the transport of persons	5,428	[673] Flat-rolled prod., iron, non-alloy steel, not coated	2,774
6	[511] Hydrocarbons, n.e.s., & halogenated, nitr. derivative	4,782	[598] Miscellaneous chemical products, n.e.s.	2,595
7	[778] Electrical machinery & apparatus, n.e.s.	4,670	[884] Optical goods, n.e.s.	2,063
8	[871] Optical instruments & apparatus, n.e.s.	4,202	[282] Ferrous waste, scrape; remelting ingots, iron, steel	2,040
9	[731] Machine-tools working by removing material	4,131	[874] Measuring, analysing & controlling apparatus, n.e.s.	1,968
10	[874] Measuring, analysing & controlling apparatus, n.e.s.	3,614	[772] Apparatus for electrical circuits; board, panels	1,878
Import				
1	[764] Telecommunication equipment, n.e.s.; & parts, n.e.s.	22,593	[334] Petroleum oils or bituminous minerals > 70 % oil	9,590
2	[752] Automatic data processing machines, n.e.s.	13,761	[764] Telecommunication equipment, n.e.s.; & parts, n.e.s.	3,316
3	[845] Articles of apparel, of textile fabrics, n.e.s.	8,842	[776] Cathode valves & tubes	2,826
4	[894] Baby carriages, toys, games & sporting goods	6,165	[673] Flat-rolled prod., iron, non-alloy steel, not coated	1,748
5	[842] Women's clothing, of textile fabrics	5,753	[681] Silver, platinum, other metals of the platinum group	1,207
6	[775] Household type equipment, electrical or not, n.e.s.	4,258	[778] Electrical machinery & apparatus, n.e.s.	761
7	[821] Furniture & parts	4,226	[784] Parts & accessories of vehicles of 722, 781, 782, 783	609
8	[851] Footwear	3,975	[034] Fish, fresh (live or dead), chilled or frozen	562
9	[841] Men's clothing of textile fabrics, not knitted	3,966	[674] Flat-rolled prod., iron, non-alloy steel, coated, clad	540
10	[759] Parts, accessories for machines of groups 751, 752	3,926	[335] Residual petroleum products, n.e.s., related mater.	496

* 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.

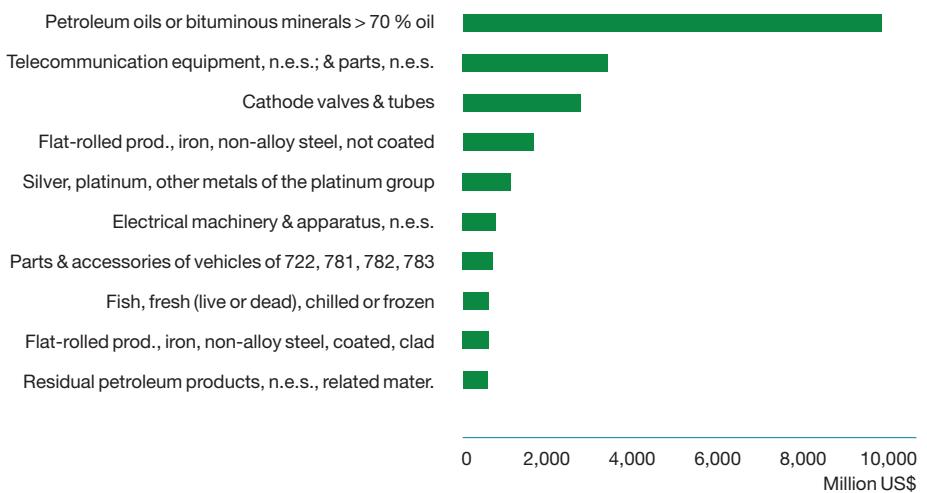
Source

United Nations Conference on Trade and Development (UNCTAD) Statistics

Japan's Import from China in 2012



Japan's Import from ROK in 2012



5-23. Bilateral Exports of ROK

Unit: Million US\$

ROK's Exports										
	China	2010	2011	2012		Japan	2010	2011	2012	
1	Machinery and transport equipment	52,565	56,427	57,902	Machinery and transport equipment	9,503	11,603	12,092		
2	Chemicals and related products, n.e.s.	20,452	25,361	25,407	Manufactured goods	6,164	9,143	8,163		
3	Miscellaneous manufactured articles	23,011	25,242	25,907	Mineral fuels, lubricants and related materials	3,687	8,775	8,776		
4	Manufactured goods	11,212	12,336	11,426	Chemicals and related products, n.e.s.	3,346	4,278	4,207		
5	Mineral fuels, lubricants and related materials	7,272	11,589	10,602	Miscellaneous manufactured articles	2,922	2,592	2,584		
6	Crude materials, inedible, except fuels	1,546	2,088	1,937	Food and live animals	1,395	1,637	1,683		
7	Food and live animals	580	921	868	Crude materials, inedible, except fuels	792	1,145	795		
8	Commodities and transactions, n.e.s.	127	120	145	Beverages and tobacco	251	367	361		
9	Beverages and tobacco	52	66	88	Commodities and transactions, n.e.s.	111	127	126		
10	Animal and vegetable oils, fats and waxes	19	37	40	Animal and vegetable oils, fats and waxes	6	12	10		
	Total	116,838	134,185	134,322		Total	28,176	39,679	38,796	

* The products are categorized by SITC sections.

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

5-24. Bilateral Imports of ROK

Unit: Million US\$

ROK's Imports									
	China	2010	2011	2012		Japan	2010	2011	2012
1	Machinery and transport equipment	33,029	37,903	35,999	Machinery and transport equipment	24,516	25,449	22,600	
2	Manufactured goods	16,466	21,148	19,290	Chemicals and related products, n.e.s.	14,548	15,689	15,049	
3	Miscellaneous manufactured articles	10,335	12,739	12,608	Manufactured goods	14,889	15,662	13,667	
4	Chemicals and related products, n.e.s.	5,8467	7,734	7,075	Miscellaneous manufactured articles	6,209	6,536	7,028	
5	Food and live animals	2,642	3,139	2,835	Crude materials, inedible, except fuels	2,135	2,381	2,979	
6	Mineral fuels, lubricants and related materials	1,904	2,100	1,400	Mineral fuels, lubricants and related materials	1,123	1,827	2,426	
7	Crude materials, inedible, except fuels	1,283	1,594	1,448	Food and live animals	427	371	281	
8	Animal and vegetable oils, fats and waxes	28	28	20	Commodities and transactions, n.e.s.	359	308	240	
9	Beverages and tobacco	35	23	27	Beverages and tobacco	54	55	55	
10	Commodities and transactions, n.e.s.	5	23	80	Animal and vegetable oils, fats and waxes	36	41	37	
	Total	71,573	86,431	80,782		Total	64,296	68,320	64,363

* The products are categorized by SITC sections.

Source

United Nations Conference on Trade and Development (UNCTAD) Statistics

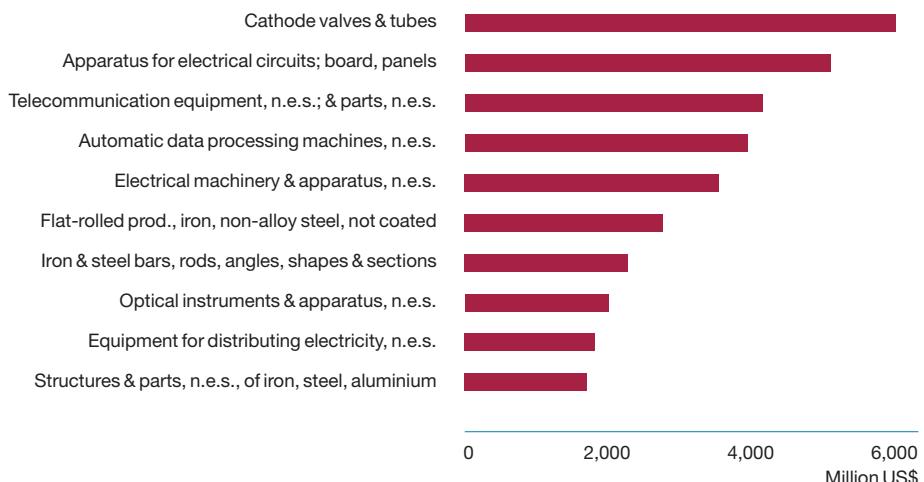
5-25. Bilateral Trade of ROK in 2012 (Top 10 Merchandise Detailed Products)

Unit: Million US\$

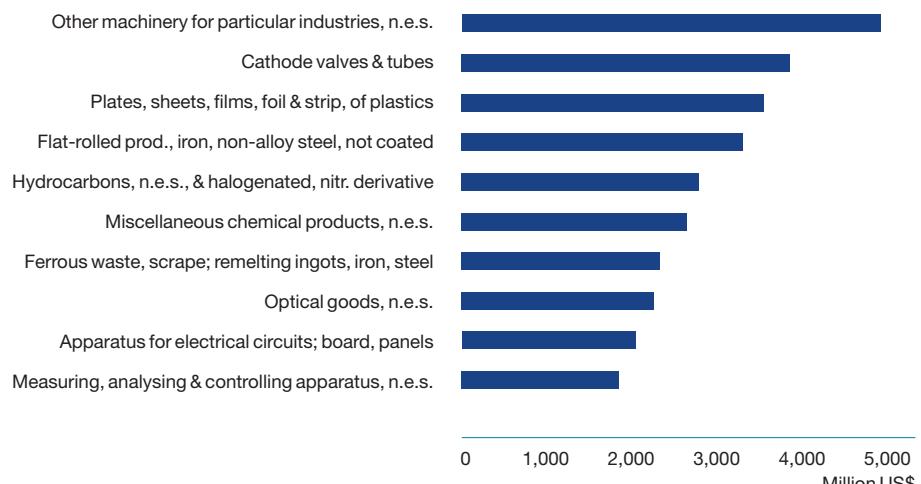
Rank	China		Japan	
Export				
1	[871] Optical instruments & apparatus, n.e.s.	19,793	[334] Petroleum oils or bituminous minerals > 70 % oil	8,335
2	[776] Cathode valves & tubes	16,974	[764] Telecommunication equipment, n.e.s.; & parts, n.e.s.	3,180
3	[778] Electrical machinery & apparatus, n.e.s.	9,228	[776] Cathode valves & tubes	2,433
4	[334] Petroleum oils or bituminous minerals > 70 % oil	8,978	[673] Flat-rolled prod., iron, non-alloy steel, not coated	1,689
5	[511] Hydrocarbons, n.e.s., & halogenated, nitr. derivative	8,421	[681] Silver, platinum, other metals of the platinum group	1,286
6	[764] Telecommunication equipment, n.e.s.; & parts, n.e.s.	5,168	[699] Manufactures of base metal, n.e.s.	676
7	[772] Apparatus for electrical circuits; board, panels	4,790	[784] Parts & accessories of vehicles of 722, 781, 782, 783	673
8	[784] Parts & accessories of vehicles of 722, 781, 782, 783	4,118	[728] Other machinery for particular industries, n.e.s.	513
9	[513] Carboxylic acids, anhydrides, halides, per.; derivati.	3,308	[778] Electrical machinery & apparatus, n.e.s.	512
10	[575] Other plastics, in primary forms	2,838	[674] Flat-rolled prod., iron, non-alloy steel, coated, clad	510
Import				
1	[776] Cathode valves & tubes	5,735	[728] Other machinery for particular industries, n.e.s.	4,760
2	[772] Apparatus for electrical circuits; board, panels	4,892	[776] Cathode valves & tubes	3,814
3	[764] Telecommunication equipment, n.e.s.; & parts, n.e.s.	4,110	[582] Plates, sheets, films, foil & strip, of plastics	3,547
4	[752] Automatic data processing machines, n.e.s.	4,008	[673] Flat-rolled prod., iron, non-alloy steel, not coated	3,358
5	[778] Electrical machinery & apparatus, n.e.s.	3,525	[511] Hydrocarbons, n.e.s., & halogenated, nitr. derivative	2,780
6	[673] Flat-rolled prod., iron, non-alloy steel, not coated	2,789	[598] Miscellaneous chemical products, n.e.s.	2,673
7	[676] Iron & steel bars, rods, angles, shapes & sections	2,241	[282] Ferrous waste, scrape; remelting ingots, iron, steel	2,189
8	[871] Optical instruments & apparatus, n.e.s.	2,067	[884] Optical goods, n.e.s.	2,137
9	[773] Equipment for distributing electricity, n.e.s.	1,981	[772] Apparatus for electrical circuits; board, panels	2,051
10	[691] Structures & parts, n.e.s., of iron, steel, aluminium	1,732	[874] Measuring, analysing & controlling apparatus, n.e.s.	1,873

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

ROK's Import from China in 2012



ROK's Import from Japan in 2012



6

Investment

- 6-1. Investment of Each Country
- 6-2. Foreign Direct Investment Inflows
- 6-3. Foreign Direct Investment Outflows
- 6-4. Foreign Direct Investment Inward Stocks
- 6-5. Foreign Direct Investment Outward Stocks

6-1. Investment of Each country

Unit: Million US \$

Foreign Direct Investment			
	China	Japan	ROK
2007	143,100	-51,000	-17,935
2008	121,700	-103,593	-16,941
2009	70,300	-62,761	-14,948
2010	124,900	-57,515	-22,184
2011	170,400	-116,111	-15,694
Portfolio Investment			
	China	Japan	ROK
2007	18,700	70,074	-26,058
2008	42,700	-282,403	-2,406
2009	38,700	-219,144	49,728
2010	24,000	-150,938	42,480
2011	19,600	161,959	10,312

* Portfolio investment is a passive investment in securities, none of which entails active management or control of the securities' issuer by the investor.

Other Investment			
	China	Japan	ROK
2007	-69,700	-209,217	32,788
2008	-121,100	189,714	-23,593
2009	67,900	141,602	2,039
2010	72,400	65,030	-21,414
2011	25,500	15,433	-11,085

Source

Asian Development Bank

6-2. Foreign Direct Investment Inflows

Unit: Million US \$

	by Partner Country								
	China ¹			Japan (Reporting Country)			ROK (Reporting Country)		
	World	Japan	ROK	World	China	ROK	World	China	Japan
2001	44,241	1,483	-272	17,927	3.3	25	3,859	47	524
2002	49,308	1,718	-	17,455	2.4	25	3,059	81	377
2003	49,457	3,065	1,305	18,252	2.6	33	3,888	184	186
2004	62,108	4,539	2,291	37,232	8.3	228	7,726	696	1,735
2005	104,109	6,596	-	2,778	11.8	29	6,066	2	1,469
2006	124,082	6,164	3,075	-6,503	12	108	4,964	29	1,431
2007	156,249	6,203	4,913	22,548	14.4	216	1,450	47	633
2008	171,535	6,480	4,035	24,418	36.8	283	7,603	242	2,084
2009	131,057	6,938	3,545	11,939	-144.3	259	6,586	67	1,592
2010	243,703	7,160	5,313	-1,252	314.5	267	8,117	104	2,517
2011	280,000	12,582	4,977	-1,757	111.5	197.9	10,247	158	2,213

1. Numbers of China's total FDI inflows are reported by OECD "FDI series from 1990 to Q2 2013" (Updated on October 17, 2013).

China's FDI inflows from Japan and ROK are cited from data of Japan and ROK's FDI outflows to China.

Source Organization for Economic Cooperation and Development (OECD)
 -FDI series from 1990 to Q2 2013 (Updated on October 17, 2013)
 -International Direct Investment Database

Unit: Million US \$

	by Industry											
	Primary Sector*		Manufacturing**		Electricity, Gas and Water		Construction		Service Total***		Unallocated	
	Japan	ROK	Japan	ROK	Japan	ROK	Japan	ROK	Japan	ROK	Japan	ROK
2007	8	3	1,321	1,421	-	12	19	-648	20,537	2,151	663	-1,456
2008	-1	30	2,269	670	-	107	-61	183	20,909	4,620	1,302	1,995
2009	-4	38	3,515	708	-	67	16	5	8,144	4,087	268	1,681
2010	73	8	1,905	2,365	-	93	-1	21	-3,708	4,582	479	1,048
2011	-5	7.9	2,481	3,910	-	29.5	-66.4	-25.6	-4,689	5,174	522.3	1,151

* Primary Sector: agriculture and fishing, mining and quarrying

** Manufacturing: food products, textiles and wearing apparel, wood, publishing and printing, chemical products, rubber and plastic products, etc.

*** Service Total: trade and repairs, hotel and restaurants, transports, storage and communication, financial intermediation etc.

Source International Direct Investment Database,
 Organization for Economic Cooperation and Development (OECD)

6-3. Foreign Direct Investment Outflows

Unit: Million US \$

	by Partner Country								
	China ¹			Japan (Reporting Country)			ROK (Reporting Country)		
	World	Japan	ROK	World	China	ROK	World	China	Japan
2001	6,884	3.3	47	32,554	1,483	560	1,890	-272	75
2002	2,518	2.4	81	35,268	1,718	609	-	-	-
2003	-152	2.6	184	35,187	3,065	277	3,515	1,305	50
2004	1,805	8.3	696	35,332	4,539	840	5,965	2,291	289
2005	11,306	11.8	2	45,831	6,596	1,786	-	-	-
2006	21,200	12	29	50,244	6,164	1,520	9,942	3,075	192
2007	17,000	14.4	47	73,546	6,203	1,302	18,903	4,913	486
2008	53,500	36.8	242	127,981	6,480	2,367	17,304	4,035	366
2009	43,900	-144.3	67	74,699	6,938	1,084	20,260	3,545	340
2010	60,100	314.5	104	56,276	7,160	1,067	26,821	5,313	252
2011	48,400	111.5	158	114,302	12,582	2,435	26,989	4,977	130.5

1. Numbers of China's total FDI outflows are reported by OECD "FDI series from 1990 to Q2 2013" (Updated on October 17, 2013).

China's FDI outflows to Japan and ROK are cited from data of Japan and ROK's FDI inflows from China.

Source Organization for Economic Cooperation and Development (OECD)
 -FDI series from 1990 to Q2 2013 (Updated on October 17, 2013)
 -International direct investment database

Unit: Million US \$

	by Industry											
	Primary Sector		Manufacturing			Electricity, Gas and water		Construction		Service total		Unallocated
	Japan	ROK	Japan	ROK	Japan	ROK	Japan	ROK	Japan	ROK	Japan	ROK
2007	4,215	1,983	39,676	7,124	-	398	486	726	27,510	8,672	1,659	0
2008	10,545	3,565	44,987	5,474	-	71	390	689	70,005	7,505	2,055	0
2009	6,497	5,118	32,950	7,047	-	489	499	285	33,340	7,321	1,414	0
2010	9,279	7,118	17,670	10,133	-	295	299	157	27,016	9,115	2,013	0
2011	16,527	6,757	57,111	10,286		512.8	434.6	303.9	37,385	9,102	2,844	26.5

* Primary Sector: agriculture and fishing, mining and quarrying

** Manufacturing: food products, textiles and wearing apparel, wood, publishing and printing, chemical products, rubber and plastic products, etc.

*** Service Total: trade and repairs, hotel and restaurants, transports, storage and communication, financial intermediation etc.

Source International Direct Investment Database,
 Organization for Economic Cooperation and Development (OECD)

6-4. Foreign Direct Investment Inward Stocks

Unit: Million US \$

	by Partner Country								
	China ¹			Japan (Reporting Country)			ROK (Reporting Country)		
	World	Japan	ROK	World	China	ROK	World	China	Japan
2001	-	10,018	4,386	50,320	72	190	41,282	138	6,614
2002	-	1,236	-	78,143	80	209	44,341	219	6,991
2003	-	15,277	6,441	89,729	90	244	48,229	404	7,177
2004	368,970	20,142	8,852	96,987	89	535	55,955	1,100	8,912
2005	471,549	24,553	-	100,901	102	311	62,020	1,102	10,381
2006	612,508	30,309	14,533	107,636	100	423	70,951	1,131	11,766
2007	703,667	37,505	23,728	132,854	124	689	67,842	1,178	12,419
2008	915,524	48,747	31,823	203,369	224	1,229	75,446	1,326	13,533
2009	1,314,800	55,090	31,388	200,153	197	1,445	117,732	1,056	27,091
2010	1,476,400	66,531	57,278	214,890	399	1,935	134,234	1,078	32,403

1. Numbers of China's total FDI inward stocks are reported by OECD "FDI series from 1990 to Q2 2012" (Updated on October 21, 2012).

China's FDI inward stocks from Japan and ROK are cited from data of Japan and ROK's FDI outward stocks to China.

Source Organization for Economic Cooperation and Development (OECD)
 -FDI series from 1990 to Q2 2012 (Updated on October 21, 2012)
 -International Direct Investment Database

Unit: Million US \$

	by Industry												
	Primary Sector		Manufacturing			Electricity, Gas and water		Construction		Service total		Unallocated	
	Japan	ROK	Japan	ROK	Japan	ROK	Japan	ROK	Japan	ROK	Japan	ROK	
2007	101	404	50,090	22,418	-	581	161	-99	75,697	35,759	6,804	8,988	
2008	142	404	74,702	21,549	-	642	212	78,118,131	32,847	10,182	19,926		
2009	131	651	70,063	32,364	-	1,025	190	122,119,624	56,781	10,144	26,788		
2010	228	185	76,275	52,634	-	501	193	340,126,188	72,826	12,005	7,749		

* Primary Sector: agriculture and fishing, mining and quarrying

** Manufacturing: food products, textiles and wearing apparel, wood, publishing and printing, chemical products, rubber and plastic products, etc.)

*** Service Total: trade and repairs, hotel and restaurants, transports, storage and communication, financial intermediation etc.

Source International Direct Investment Database,
 Organization for Economic Cooperation and Development (OECD)

6-5. Foreign Direct Investment Outward Stocks

Unit: Million US \$

by Partner Country									
	China ¹		Japan (Reporting Country)			ROK (Reporting Country)			
	World	Japan	ROK	World	China	ROK	World	China	Japan
2001	-	72	138	300,116	10,018	4,380	28,706	4,386	528
2002	-	80	219	304,234	12,354	5,222	-	-	-
2003	-	90	404	335,504	15,277	5,068	33,844	6,441	643
2004	52,704	89	1,100	370,542	20,142	6,580	39,936	8,852	861
2005	64,493	102	1,102	386,583	24,553	8,217	-	-	-
2006	90,630	100	1,131	449,567	30,309	10,667	54,075	14,533	1,153
2007	115,960	124	1,178	542,618	37,505	12,010	74,777	23,728	1,881
2008	185,694	224	1,326	680,313	48,747	12,117	98,483	31,823	2,707
2009	245,800	197	1,056	740,962	55,090	12,613	115,450	31,388	2,470
2010	310,800	399	1,078	831,111	66,531	15,054	254,716	57,278	5,288

1. Numbers of China's total FDI outward stocks are reported by OECD "FDI series from 1990 to Q2 2012" (Updated on October 21, 2012).

China's FDI outward stocks to Japan and ROK are cited from data of Japan and ROK's FDI inward stocks from China.

Source Organization for Economic Cooperation and Development (OECD)
 -FDI series from 1990 to Q2 2012 (Updated on October 21, 2012)
 -International Direct Investment Database

Unit: Million US \$

by Industry												
	Primary Sector		Manufacturing		Electricity, Gas and water		Construction		Service total		Unallocated	
	Japan	ROK	Japan	ROK	Japan	ROK	Japan	ROK	Japan	ROK	Japan	ROK
2007	19,223	5,936	300,801	37,068	-	689	1,257	1,766	205,266	29,318	16,071	0
2008	32,758	10,922	334,235	43,539	-	484	1,489	2,355	293,249	41,184	18,582	0
2009	43,235	14,057	354,162	49,574	-	1,047	2,046	2,742	321,709	48,030	19,811	0
2010	53,452	47,513	385,041	108,526	-	2,974	2,576	4,388	367,300	91,315	22,743	0

* Primary Sector: agriculture and fishing, mining and quarrying

** Manufacturing: food products, textiles and wearing apparel, wood, publishing and printing, chemical products, rubber and plastic products, etc.)

*** Service Total: trade and repairs, hotel and restaurants, transports, storage and communication, financial intermediation etc.

Source International Direct Investment Database,
 Organization for Economic Cooperation and Development (OECD)

7

Free Trade Agreement

- 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)
- 7-4. Economic Effects of China-Japan-ROK FTA
(Estimation as of 2005)

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

Current Situation	China (9)			Japan (13)			ROK (11)		
	Negotiation Concluded	Partner	In effect	Type of Agreement	Partner	In effect	Type of Agreement	Partner	In effect
	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	Apr. 2013*	FTA	ASEAN	Dec. 2008	EPA	USA	Mar. 2012	FTA
	Switzerland	Jul. 2013*	FTA	Philippines	Dec. 2008	EPA	Columbia*	Aug. 2012	FTA
			Switzerland	Sep. 2009	EPA	Turkey	May. 2013		FTA
		Viet Nam	Oct. 2009	EPA	Australia		Dec. 2013*		FTA
			India	Aug. 2011	EPA				
			Peru	Mar. 2012	EPA				

* 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 Foreign Affairs and Trade of ROK

FTA Partners of China



FTA Partners of Japan



FTA Partners of ROK



7-2. FTA of the Three Countries (Under Negotiation)

Current Situation	China (7) *				Japan (10)				ROK (10)	
	Partner	Nego-tiation Launch	Type of Agree-ment	Partner	Nego-tiation Launch	Type of Agree-ment	Partner	Nego-tiation Launch	Type of Agree-ment	
GCC	Jul. 2004	FTA	ROK**	Oct. 2003	EPA/FTA	Japan**	Dec. 2003	FTA/EPA		
SACU	Jun. 2004	FTA	GCC	Sep. 2006	EPA	Canada	Jul. 2005	FTA		
Australia	Oct. 2006	FTA	Australia	Apr. 2007	EPA	Mexico***	Sep. 2005	FTA		
Norway	Apr. 2007	FTA	Mongolia	Mar. 2012	EPA	GCC****	Nov. 2007	FTA		
ROK	Apr. 2011	FTA	Canada	Mar. 2012	EPA	New Zealand	Jul. 2009	FTA		
RCEP	Mar. 2013	FTA	Colombia	Dec. 2012	EPA	China	Apr. 2011	FTA		
CJK	Mar. 2013	FTA	CJK	Mar. 2013	FTA	Indonesia	Nov. 2011	FTA		
		EU	Apr. 2013		EPA	Vietnam	Nov. 2011	FTA		
		RCEP	Mar. 2013		FTA	CJK	Mar. 2013	FTA		
TPP	Jul. 2013	FTA			RCEP	May 2013		FTA		

* Indicate the date of the first negotiation.

** Japan-ROK FTA Negotiations have been suspended since 2004.

*** ROK-Mexico FTA Negotiations have been suspended since 2005.

**** ROK-GCC FTA Negotiations have been suspended since 2009.

Source Ministry of Commerce of China, Ministry of Foreign Affairs of Japan, Ministry of Foreign Affairs and Trade of ROK

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

Current Situ- ation	China (2)		Japan (1)		ROK (7)	
	Partner	Type of Agreement	Partner	Type of Agreement	Partner	Type of Agreement
Under Discus- sion	India	FTA	Turkey	EPA	MERCOSUR	FTA
	MERCOSUR	FTA			Israel	FTA
					Central America	FTA
					Malaysia	FTA
Source	Ministry of Commerce of China, Ministry of Foreign Affairs of Japan, Ministry of Foreign Affairs and Trade of ROK					

7-4. Economic Effects of China-Japan-ROK FTA (Estimation as of 2005)

Unit: %, Million US \$

	GDP Growth Rate	Economic Welfare Gains	
		China	Japan
China	0.30		3,349
Japan	0.37		16,760
ROK	3.55		12,446
Cross-sector Industrial Impacts of the CJKFTA			
	China	Japan	ROK
Agriculture	+	-	-
Fishery	+	/	-
Textile	+	-	+
Electronics	+	/	+
General Machinery	-	+	-
Steel	/	+	/
Automobiles	-	+	/
Chemical	-	+	+

* + means the output increases, - means the output decreases, and / means the impact is quite small

Source	Trilateral Joint Research by the Development Research Center of China, National Institute for Research Advancement of Japan and Korea Institute for International Economic Policy (2005) 'Joint Report and Policy Recommendation on Towards a CJKFTA: Visions and Tasks'
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8

Finance

- 8-1. Balance of Payment
- 8-2. Government Finance
- 8-3. Government Debts
- 8-4. Interest Rate and Savings
- 8-5. Currency Exchange Rates
- 8-6. Expenditure on R&D
- 8-7. Expenditure on Health
- 8-8. Military Expenditure
- 8-9. Bond Market (LCY Bonds)
- 8-10. Bond Market (FCY Bonds)
- 8-11. Stock Market (Growth Rate)
- 8-12. Stock Market (Capitalization)

8-1. Balance of Payment

Unit: Million US\$ (% of GDP)

	Current Account Balance (BoP) and % of GDP		
	China	Japan	ROK
2002	35,422 (2.4)	112,447 (2.8)	7,542 (1.3)
2003	43,052 (2.6)	136,216 (3.2)	15,584 (2.4)
2004	68,941 (3.6)	172,059 (3.7)	32,312 (4.5)
2005	132,378 (5.9)	165,783 (3.6)	18,607 (2.2)
2006	231,843 (8.5)	171,078 (3.9)	14,083 (1.5)
2007	353,183 (10.1)	211,685 (4.9)	21,770 (2.1)
2008	420,569 (9.3)	159,363 (3.3)	3,197 (0.3)
2009	243,257 (4.9)	147,017 (2.9)	32,791 (3.9)
2010	237,810 (4.0)	203,916 (3.7)	29,394 (2.9)
2011	136,097 (1.9)	119,064 (2.0)	26,068 (2.3)
2012	193,139 (2.3)	60,859 (1.0)	43,335 (3.8)

* 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
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8-2. Government Finance

Unit: National Currency

China (Billion Yuan)				
	Total Revenue	Taxes	Total Expenditure	Overall Budgetary Surplus/Deficit
2008	6,133	5,422	6,259	-126
2009	6,852	5,952	7,630	-778
2010	8,310	7,321	8,987	-677
2011	10,387	8,974	10,925	-537
2012	11,721	10,060	12,571	-850
Japan (Billion Yen)				
	Total Revenue	Taxes	Total Expenditure	Overall Budgetary Surplus/Deficit
2008	65,043	45,053	79,811	-14,768
2009	54,424	39,616	90,126	-35,702
2010	54,132	42,830	86,674	-32,542
2011	53,408	44,506	92,327	-38,919
2012	n/a	n/a	n/a	n/a
ROK (Billion Won)				
	Total Revenue	Taxes	Total Expenditure	Overall Budgetary Surplus/Deficit
2008	250,713	167,306	233,354	-34,571
2009	255,252	164,542	254,823	-42,602
2010	270,923	177,718	251,146	-31,826
2011	292,323	192,381	269,768	-31,783
2012	311,456	203,015	286,921	-30,599

Source	Asian Development Bank
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8-3. Government Debts

Unit: National Currency (% of GDP)

	General Government Gross Debt and % of GDP		
	China (Billion Yuan)	Japan (Billion Yen)	ROK (Billion Won)
2002	2,279 (18.9)	818,561 (164.0)	133,730 (18.6)
2003	2,614 (19.2)	845,917 (169.6)	165,825 (21.6)
2004	2,963 (18.5)	910,015 (180.7)	203,687 (24.6)
2005	3,261 (17.6)	939,458 (186.4)	247,972 (28.7)
2006	3,502 (16.2)	942,424 (186.0)	282,783 (31.1)
2007	5,207 (19.6)	938,808 (183.0)	298,902 (30.7)
2008	5,327 (17.0)	961,380 (191.8)	309,046 (30.1)
2009	6,024 (17.8)	990,554 (210.2)	359,609 (33.8)
2010	13,466 (33.5)	1,037,243 (215.3)	392,238 (33.4)
2011	13,588 (28.7)	1,083,750 (230.3)	422,839 (34.2)
2012	13,547 (26.1)	1,131,983 (238.0)	445,133 (35.0)
Source	World Economic Outlook Database (October 2013) International Monetary Fund (IMF)		

8-4. Interest Rate and Savings

Unit: %

	Lending Interest Rate and Savings Rate					
	Lending Interest Rate			Savings Rate		
	China	Japan	ROK	China	Japan	ROK
2008	5.3	1.9	7.2	53.2	26.2	30.7
2009	5.3	1.7	5.7	53.5	22.5	30.3
2010	5.8	1.6	5.5	52.8	23.3	31.7
2011	6.6	1.5	5.8	52.8	23.3	31.7
2012	6.0	1.4	5.4	52.8	23.3	31.7
Source	International Monetary Fund (IMF)			World Bank		

Unit: %

	Gross Domestic Savings in GDP		
	China	Japan	ROK
2001	38.6	25.7	31.3
2002	40.4	23.8	30.7
2003	43.1	24.1	32.2
2004	45.6	24.5	34.1
2005	47.1	23.9	32.3
2006	49.3	23.9	31.0
2007	50.5	24.6	30.9
2008	51.6	23.2	30.0
2009	51.8	20.0	29.9
2010	51.9	21.0	32.2
2011	51.8	19.0	31.7

* Savings rate is the total amount of savings divided by the amount of disposable income of the country.

Source UN Economic and Social Survey of Asia and the Pacific 2012, UN ESCAP

8-5. Currency Exchange Rates

Unit: National Currency Unit per US\$ (Annual Average)

	China (Yuan)	Japan (Yen)	ROK (Won)
2002	8.3	125.3	1,251.0
2003	8.3	115.9	1,191.0
2004	8.3	108.1	1,145.2
2005	8.2	110.1	1,024.2
2006	8.0	116.4	951.8
2007	7.6	117.8	929.5
2008	6.9	103.4	1,100.9
2009	6.8	93.6	1,274.9
2010	6.8	87.8	1,155.4
2011	6.5	79.8	1,107.8
2012	6.3	79.8	1,126.5

Source

OECD StatExtracts

8-6. Expenditure on R&D

Unit: % of GDP

	Gross Domestic Expenditure			Government-Financed Expenditure			Industry-Financed Expenditure		
	China	Japan	ROK	China	Japan	ROK	China	Japan	ROK
2007	1.40	3.46	3.21	0.34	0.54	0.80	0.98	2.69	2.36
2008	1.47	3.47	3.36	0.35	0.54	0.85	1.05	2.71	2.45
2009	1.70	3.36	3.56	0.40	0.59	0.98	1.22	2.53	2.53
2010	1.76	3.25	3.74	0.42	0.56	1.00	1.26	2.47	2.68
2011	1.84	3.39	4.03	0.40	0.56	1.00	1.36	2.59	2.97

Source: Main Science & Technology Indicators database, June 2013
Organization for Economic Cooperation and Development (OECD)

8-7. Expenditure on Health

Unit:% of GDP

	China	Japan	ROK
2002	4.8	8.0	5.1
2003	4.8	8.1	5.4
2004	4.7	8.0	5.4
2005	4.7	8.2	5.7
2006	4.6	8.2	6.0
2007	4.4	8.2	6.3
2008	4.6	8.5	6.5
2009	5.1	9.5	6.9
2010	5.0	9.2	7.1
2012	5.2	9.3	7.2

Source World Bank

8-8. Military Expenditure

Unit: Million US\$ (% of GDP)

	China Expenditure (% of GDP)	Japan Expenditure (% of GDP)	ROK Expenditure (% of GDP)
2002	25,114 (1.2)	60,701 (1.0)	21,177 (2.4)
2003	28,057 (1.1)	61,460 (1.0)	21,898 (2.5)
2004	32,353 (1.2)	61,201 (1.0)	22,859 (2.5)
2005	36,396 (1.1)	61,288 (1.0)	24,722 (2.6)
2006	43,814 (1.2)	60,892 (1.0)	25,613 (2.6)
2007	52,278 (1.3)	60,574 (1.0)	26,773 (2.6)
2008	61,452 (1.3)	59,140 (1.0)	28,525 (2.8)
2009	72,810 (1.4)	59,735 (1.0)	30,110 (2.9)
2010	78,432 (1.4)	59,003 (1.0)	29,912 (2.7)
2011	89,784 (1.2)	59,572 (1.0)	30,884 (2.8)
2012	n/a	59,242 (1.0)	31,484 (2.7)

Note: Military expenditures, which are derived from the NATO definition, include all current and capital expenditures on the armed forces, including peacekeeping forces; defense ministries and other government agencies engaged in defense projects; paramilitary forces, if these are judged to be trained and equipped for military operations; and military space activities.

* Figures of China's military expenses are from the Central People's Government of the People's Republic of China.

* Figures are in US \$ at constant 2011 prices and 2012 data at current 2012 US\$.

* Blue colored data is estimate.

Source

Central People's Government of the People's Republic of China
 Stockholm International Peace Research Institute (SIPRI) Military Expenditure Database

8-9. 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
2002	333.6	8.7	342.3	4,503.6	897.5	5,401.1	163.1	323.1	486.2
2003	435.2	13.3	448.5	5,541.8	907.1	6,449.0	205.7	308.0	513.6
2004	599.5	24.3	623.8	6,556.3	891.1	7,447.4	318.7	338.0	656.7
2005	835.2	64.1	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	256.0	2,212.6	8,564.4	963.2	9,527.6	368.5	448.2	816.7
2009	2,112.7	454.4	2,567.1	8,655.6	964.2	9,619.7	444.1	572.2	1,016.3
2010	2,407.8	644.3	3,052.0	10,605.8	1,112.6	11,718.4	492.2	656.9	1,149.1
2011	2,540.2	851.9	3,392.2	11,556.1	1,151.9	12,708.0	509.6	719.4	1,229.0
2012	2,771.8	1,039.6	3,811.3	10,668.2	988.1	11,656.3	572.2	898.8	1,471.0

* 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

AsianBondsOnline (19 Nov. 2013)

8-10. Bond Market (FCY Bonds)

Unit: Billion US \$

FCY Bonds in USD (local sources)												
	China				Japan				ROK			
	Government	Banks and Financial Institutions	Other Corporates	Total FCY	Government	Banks and Financial Institutions	Other Corporates	Total FCY	Government	Banks and Financial Institutions	Other Corporates	Total FCY
2002	6.16	3.33	5.22	14.7	n/a	n/a	n/a	n/a	13.61	11.6	25.91	51.11
2003	7.46	3.52	5.47	16.45	n/a	n/a	n/a	n/a	14.91	14.62	25.36	54.89
2004	9.38	3.89	4.92	18.18	25.77	9.98	18.41	54.16	15.93	18.85	27.64	62.43
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
06-2013	15.36	51.14	93.02	159.52	40.95	54.53	21.64	117.11	22.91	70.42	57.71	151.04

* 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

AseanBondsOnline (19 Nov. 2013)

8-11. Stock Market (Growth Rate)

Unit: %

	Growth Rates of Stock Market Price Index		
	China	Japan	ROK
2002	-19.6	-18.0	32.3
2003	-6.0	-6.2	-10.2
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

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

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

Source International Finance Centre Key Indicators for Asia and the Pacific 2011,
Asian Development Bank

8-12. 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	International Finance Centre, Key Indicators for Asia and the Pacific 2012, Asian Development Bank
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9

Transportation and Logistics

- 9-1. Air Transport: Freight and Passengers Carried
- 9-2. Container Port Traffic
- 9-3. Road and Rail
- 9-4. Vehicle Ownership Rate

9-1. 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	7,711	12,943
2011	16,765	6,556	12,382
2012	15,569	7,036	12,291

* 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.

Unit: Persons

Air Transport: Passengers Carried			
	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	109,551,151	36,987,982
2011	292,160,158	89,734,863	39,911,750
2012	318,475,924	98,907,859	39,969,577
Source	World Bank		

9-2. Container Port Traffic

Unit: TEU (20 Foot Equivalent Units)

	China	Japan	ROK
2001	44,726,084	13,127,144	9,287,221
2002	55,717,488	13,501,420	11,719,500
2003	61,898,336	15,055,696	13,049,534
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	139,736,156	18,886,713	20,830,308

* 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

9-3. Road and Rail

Road						
	Network (Km)		Road Density (Km of Road Per 100sq. km of Land Area)			
	China	Japan	ROK	China	Japan	ROK
2007	3,583,715	327,752	103,019	37	87	103
2008	3,730,164	331,071	104,236	39	88	105
2009	3,860,823	333,574	104,983	40	88	105
2010	4,008,229	336,578	-	42	89	
Rail						
	Rail Lines (Km)			Passengers Carried (Million Passenger-km)		
	China	Japan	ROK	China	Japan	ROK
2007	3,583,715	327,752	103,019	689,618	252,579	31,596
2008	3,730,164	331,071	104,236	772,834	255,865	32,025
2009	3,860,823	333,574	104,983	787,890	253,555	31,298
2010	4,008,229	336,578	-	791,158	244,235	33,027
2011	-	-	-	815,699	244,591	21,603

* 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

Road					
Paved Road (% of Total Road)			Goods Transported (Million Ton-km)		
China	Japan	ROK	China	Japan	ROK
49.6	79.6	78.3	1,135,470	-	-
53.5	79.9	78.5	3,286,819	355,000	12,546
-	80.1	79.3	3,718,882	346,420	12,546
			4,338,967	334,667	-
Rail					
Goods Transported (Million Ton-km)					
China	Japan		ROK		
2,211,246	23,145		10,927		
2,511,804	23,032		11,566		
2,523,917	22,100		9,273		
2,451,185	20,432		9,452		
2,562,635	20,255		9,996		

World Bank

9-4. Vehicle Ownership Rate

Unit: Per Thousand Persons

	Motor Vehicles			Passenger Cars		
	China	Japan	ROK	China	Japan	ROK
2006	28	594	329	18	450	240
2007	32	592	339	22	450	250
2008	37	592	346	27	451	257
2009	47	593	355	34	451	267
2010	58	591	363	44	453	276

* 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).

Unit: Per Km of Road

	Vehicles		
	China	Japan	ROK
2006	10	63	156
2007	12	63	159
2008	13	63	161
2009	16	n/a	n/a
2010	19	n/a	n/a

* 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

10

Movement of

People

- 10-1. Travelers among the Three Countries**
- 10-2. Resident Foreign Nationals among the Three Countries**
- 10-3. Tourist Arrivals from World**
- 10-4. Foreign Students among the Three Countries**
- 10-5. International Marriage**

10-1. Travelers among the Three Countries

Unit: Thousand Persons

Total Number of Travelers			
	Origins of Country	From China	From Japan
	Destination		From ROK
2008	To China	3,446	3,960
	To Japan	1,000	2,382
	To ROK	1,168	2,378
2009	To China	3,317	3,198
	To Japan	1,006	1,587
	To ROK	1,342	3,053
2010	To China	3,731	4,076
	To Japan	1,413	2,440
	To ROK	1,875	3,023
2011	To China	3,658	4,185
	To Japan	1,043	1,658
	To ROK	2,220	3,289
2012	To China	3,658	4,070
	To Japan	1,425	2,044
	To ROK	2,837	3,519
Source	Number of travelers from China and Japan to ROK: Korea Tourism Organization Number of travelers from Japan and ROK to China: Chinese National Tourism Administration Number of travelers from China and ROK to Japan: Japan National Tourism Organization		

10-2. Resident Foreign Nationals among the Three Countries

Unit: Persons

	Number of Resident Foreign Nationals					
	China ¹		Japan		ROK ²	
	Japan	ROK	China	ROK	China ³	Japan
2008	n/a	n/a	655,377	589,239	555,517	51,763
2009	n/a	n/a	680,518	578,495	555,082	47,718
2010	66,159	120,750	687,156	565,989	608,881	48,905
2011	n/a	n/a	674,879	545,401	677,954	58,169
2012	n/a	n/a	652,555	530,046	698,444	57,174

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 oversea 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)
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10-3. Tourist Arrivals from World

Unit: Persons

	China	Japan	ROK
2008	24,325,300	8,350,835	6,890,841
2009	21,937,500	6,789,658	7,817,535
2010	26,126,900	8,611,175	8,797,658
2011	27,112,000	6,218,752	9,794,796
2012	27,191,600	8,358,000	11,140,028

Source National Bureau of Statistics of China,
Japan National Tourist Organization,
Korea Tourism Organization

10-4. Foreign Students among the Three Countries

Unit: Persons

	Number of Foreign Students					
	In China			In Japan ¹		In ROK
	Japanese	Korean	Chinese	Korean	Chinese	Japanese
2008	16,733	66,806	72,766	18,862	44,746	3,324
2009	n/a	n/a	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	n/a	n/a
2012	n/a	n/a	86,324	16,651	57,798	2,334

1. As of May 1

Unit: %

	% of Total Foreign Students					
	In China			In Japan ¹		In ROK
	Japanese	Korean	Chinese	Korean	Chinese	Japanese
2008	7.5	29.9	58.8	15.2	70.0	5.2
2009	n/a	n/a	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	n/a	n/a
2012	n/a	n/a	62.7	12.1	68.2	2.8

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

10-5. International Marriage

Unit: Persons

Japan ¹						
	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
2009	34,393	26,747	12,733	4,113	7,646	986
2010	30,207	22,843	10,162	3,664	7,364	910
2011	25,934	19,022	8,104	3,098	6,912	850
2012	23,657	17,198	7,166	3,004	6,459	820

Source

Statistics Bureau of Japan

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
2009	33,300	25,142	11,364	1,140	8,158	2,617
2010	34,235	26,274	9,623	1,193	7,961	2,090
2011	29,762	22,265	7,549	1,124	7,497	1,869
2012	28,325	20,637	7,036	1,309	7,688	1,997

* The data of China is not available.

1. ROK includes Korean with permanent residence in Japan.

Source

Statistics Korea

11

Others

-
- 11-1. Fortune 500 Enterprise (2013)
 - 11-2. Human Development Index (HDI)
 - 11-3. UN Peacekeeping Force
 - 11-4. Competitiveness Index (2013)
 - 11-5. Number of Patent Applications
 - 11-6. Broadband Internet Subscribers
 - 11-7. Telecommunication Penetration Rate

11-1. Fortune 500 Enterprises (2013)

2013: China (89 Enterprises), Japan (62 Enterprises), ROK (14 Enterprises)				
Rank	Company	Revenues	Profits	Country
4	Sinopec Group	428.2	8.2	China
8	Toyota Motor	265.7		Japan
5	China National Petroleum	408.6	18.2	China
7	State Grid	298.4	12.3	China
13	Japan Post holdings	190.9	6.8	Japan
14	Samsung Electronics	178.6	20.6	ROK
29	Industrial & Commercial Bank of China	133.6	37.8	China
32	Nippon Telegraph & Telephone	128.9	6.3	Japan
44	JX Holdings	119.5	1.9	Japan
45	Honda Motor	119	4.4	Japan
47	Nissan Motor	116	4.1	Japan
50	China Construction Bank	113.4	30.6	China
54	Hitachi	108.9	2.1	Japan
57	SK Holdings	106.3	0.9	ROK
64	Agricultural Bank of China	103.5	23	China
70	Bank of China	98.4	22.1	China
71	China mobile Communications	96.9	11.9	China
76	Noble Group	94	0.5	China
80	China State Construction Engineering	90.6	1.3	China
83	Panasonic	87.9	-9.1	Japan
86	Nippon Life Insurance	86.7	3	Japan
93	China National Offshore Oil	83.5	7.7	China
94	Sony	81.9	0.5	Japan
100	China Railway Construction	77.2	0.8	China
102	China Railway Group	76.7	1.2	China
103	SAIC Motor	76.2	3.3	China
104	Hyundai Motor	75	7.6	ROK
111	China Life Insurance	73.7	-1.7	China
117	Tokyo Electric Power	72	-8.3	Japan
118	Mitsubishi	71.9	4.3	Japan
119	Sinochem Group	71.8	0.8	China
126	Toshiba	69.8	0.9	Japan
127	AEON	69.3	0.9	Japan
134	China Southern Power Grid	66.7	1	China

141	China FAW Group	64.9	2.6	China
142	Dai-ichi Life Insurance	63.6	0.4	Japan
146	Dongfeng Motor Group	61.7	1.3	China
150	Seven & I Holdings	60.9	1.7	Japan
156	Mitsui	59.1	3.7	Japan
160	Marubeni	58.5	2.5	Japan
161	China North Industries Group	58	0.7	China
163	Mitsubishi UFJ Financial Group	57.4	10.3	Japan
164	Meiji Yasuda Life Insurance	56.9	2.9	Japan
167	POSCO	56.5	2.2	ROK
172	CITIC Group	55.4	4.8	China
174	Itochu	55.2	3.4	Japan
178	Shenhua Group	54.5	6.2	China
181	Ping An Insurance	53.8	3.2	China
182	China Telecommunications	53.4	1.1	China
185	Nippon Steel & Sumitomo Metal	52.9	-1.5	Japan
186	Fujitsu	52.8	-0.9	Japan
187	China Resources National	52.4	1.9	China
190	Sumitomo Mitsui Financial Group	52.1	9.6	Japan
191	MS&AD Insurance Group Holdings	52	1	Japan
192	China Minmetals	51.8	0.7	China
196	Chinba Post Group	50.9	4.1	China
200	Sumitomo Life Insurance	50.5	1.3	Japan
206	Hyundai Heavy Industries	48.8	0.9	ROK
209	China South industries Group	48	0.2	China
212	Aviation Industry Corp. of China	47.4	1	China
213	China Communications Construction	47.3	1.2	China
215	Idemitsu Kosan	47.3	0.6	Japan
218	Tokio Marine Holdings	46.5	1.6	Japan
222	Baosteel Group	45.7	0.9	China
225	LG Electronics	45.2	0.1	ROK
231	China Huaneng Group	44.3	0.1	China
233	KDDI	44.1	2.9	Japan
235	Korea Electric Power	43.6	-2.8	ROK
236	Canon	43.6	2.8	Japan
239	GS Caltex	43.4	0.7	ROK
242	Denso	43.1	2.2	Japan
243	Bank of Communications	43.1	9.3	China

244	Mitsubishi Electric	43	0.8	Japan
252	Kia Motors	41.9	3.4	ROK
256	People's Insurance Co. of China	40.8	1.1	China
257	Softbank	40.7	3.5	Japan
258	China United Network Communications	40.6	0.4	China
266	Jardine Matheson	39.6	1.7	China
269	Hebei Iron & Steel Group	39.3	-0.2	China
273	Aluminum Corp. of China	38.8	-0.8	China
277	China National Aviation Fuel Group	38.4	0.1	China
278	JFE Holdings	38.4	0.5	Japan
283	Bridgestone	38.1	2.2	Japan
290	Mitsubishi Chemical Holdings	37.2	0.2	Japan
292	China Railway Materials	37.2	0.1	China
295	NEC	37	0.4	Japan
299	China Guodian	36.8	0.2	China
302	China Metallurgical Group	36.8	-0.8	China
306	Sumitomo	36.3	2.8	Japan
311	Jizhong Energy Group	35.3	0.1	China
312	Mizuho Financial Group	35.1	6.8	Japan
315	Huawei Investment & Holding	34.9	2.4	China
318	Jiangsu Shagang Group	34.6	0.1	China
319	China National Building Materials Group	34.5	0.5	China
320	Kansai Electric Power	34.4	-2.9	Japan
322	Shougang Group	34.3	0.1	China
325	NKSJ Holdings	34.2	0.5	Japan
326	Sinomach	34	0.7	China
327	Mitsubishi Heavy Industries	33.9	1.2	Japan
328	Wuhan Iron & Steel	33.9	0	China
329	Lenovo Group	33.9	0.6	China
330	Medipal Holdings	33.9	0.2	Japan
336	Beijing Automotive Group	33.4	1.1	China
343	Tewoo Group	32.9	0.1	China
345	Cosmo Oil	32.7	-1	Japan
351	East Japan Railway	32.2	2.1	Japan
354	Power China	32	0.7	China
355	ChemChina	32	-0.2	China
356	Chubu Electric Power	31.9	-0.4	Japan
357	COFCO	31.8	0.6	China

359	Greenland Holding Group	31.7	1.2	China
363	Hutchison Whampoa	31.3	3.4	China
365	Korea Gas	31.1	0.3	ROK
367	Suzuki Motor	31	1	Japan
364	Zhejiang Materials Industry Group	31.2	0	China
371	S-oil	30.8	0.5	ROK
373	Shandong Energy Group	30.7	0.9	China
374	Aisin Seiki	30.5	0.9	Japan
376	China Datang	30.4	-0.1	China
383	Sharp	29.8	-6.6	Japan
387	Amer International Group	29.6	0.6	China
388	Shandong Weiqiao Pioneering Group	29.6	1.1	China
389	China Huadian	29.3	0.5	China
390	Shanxi Coal Transportation & Sales Group	29.3	0	China
392	T&D Holdings	29.1	0.8	Japan
395	China Electronics	29	0.2	China
400	Alfresa Holdings	28.8	0.2	Japan
401	China Ocean Shipping	28.7	-0.4	China
403	Shanxi Coking Coal Group	28.6	0	China
404	Henan Coal & Chemical	28.6	-0.4	China
406	Xinxing Cathay International Group	28.6	0.3	China
407	Yangquan Coal Industry Group	28.6	0	China
408	China Power Investment	28.6	0.2	China
411	China Minsheng Banking Corp.	28.4	6	China
412	china Merchants Bank	28	7.2	China
414	Jiangxi Copper	27.9	0.3	China
415	Kailuan Group	27.8	0.1	China
417	China Shipbuilding Industry	27.8	1	China
426	Hyundai Mobis	27.3	3.2	ROK
427	Samsung Life Insurance	27.3	0.9	ROK
428	Industrial Bank	27.2	5.5	China
429	China Pacific Insurance (Group)	27.2	0.8	China
430	Shanxi LuAn Mining Group	27.1	0	China
432	Datong Coal mine Group	27	-0.1	China
435	Shanxi Jincheng Anthracite Coal mining Group	26.8	0.3	China
436	Showa Shell Sekiyu	26.7	0	Japan
437	Fujifilm Holdings	26.7	0.7	Japan
440	Mazda Motor	26.6	0.4	Japan

446	Sinopharm	26.2	0.3	China
447	LG Display	26.1	0.2	ROK
450	Sumitomo Electric Industries	26	0.5	Japan
455	Maruhan	25.7	0.2	Japan
459	Japan Tobacco	25.5	4.1	Japan
460	Shanghai Pudong Development Bank	25.4	5.4	China
464	Shaanxi Yanchang Petroleum (Group)	25.3	2.4	China
466	Bailian Group	25.2	0.1	China
467	Nomura Holdings	25	1.3	Japan
477	Zhejiang Geely holding Group	24.6	0.1	China
481	Daiwa House	24.2	0.8	Japan
482	China Nonferrous Metal Mining (Group)	24.1	0.1	China
483	Guangzhou Automobile Industry Group	24.1	0.1	China
493	Ansteel Group	23.6	-1.6	China
494	Sumitomo Chemical	23.5	-0.6	Japan
496	Kirin Holdings	23.4	0.7	Japan
500	Ricoh	23.2	0.4	Japan

Source

Global 500, Fortune

11-2. Human Development Index (HDI)

	China	Japan	ROK
2008	0.648	0.881	0.87
2009	0.655	0.881	0.872
2010	0.663	0.884	0.877
2011	0.687	0.901	0.897
2012	0.699	0.912	0.909

* 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 The Statistics Korea

11-3. UN Peacekeeping Force (as of Oct. 2013)

Unit: Person (Ranking)

	China	Japan	ROK
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	1,919 (16)	271 (47)	616 (35)
Source	United Nations Peacekeeping		

11-4. Competitiveness Index (2013)

IMD (2013)		WEF (2013-2014)	
Country	Rank	Country	Rank
USA	1	Switzerland	1
Switzerland	2	Singapore	2
Hong Kong SAR	3	Finland	3
Sweden	4	Germany	4
Singapore	5	USA	5
Norway	6	Sweden	6
Canada	7	Hong Kong SAR	7
UAE	8	Netherlands	8
Germany	9	Japan	9
Qatar	10	UK	10
China	21	ROK	25
ROK	22	China	29
Japan	24		

* 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
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11-5. 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	155,405	7,900	29,802	8,035
2010	164,338	12,296	32,150	9,669
2011	182,379	16,402	38,874	10,447
2012	194,400	18,627	43,660	11,848

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

Source

PCT Yearly Review 2013, World Intellectual Property Organization (WIPO)

11-6.Broadband Internet Subscribers

Unit: per 100 Persons

	China	Japan	ROK
2002	0.26	7.46	22.40
2003	0.87	11.82	23.97
2004	1.92	15.48	25.45
2005	2.86	18.44	25.91
2006	3.87	20.91	29.71
2007	5.03	22.37	30.97
2008	6.24	23.80	32.42
2009	7.79	25.96	34.08
2010	9.42	26.88	35.68
2011	11.61	27.56	36.91
2012	12.97	27.92	37.56

*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

11-7. Telecommunications Penetration Rates

Unit: per 100 Persons

	Telephone Lines			Cell phone Subscriptions			Internet Users		
	China	Japan	ROK	China	Japan	ROK	China	Japan	ROK
2002	16.66	48.21	55.44	16.02	64.35	69.67	4.60	46.59	59.40
2003	20.31	47.72	53.89	20.87	68.67	72.05	6.20	48.44	65.50
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

* 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

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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