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

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

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

IWATANI Shigeo
Secretary-General
Trilateral Cooperation Secretariat
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Quick Look

1-1. 2014 at a Glance
1-2. Regional Economies (2014)
**Population in 2014**

(\% of World Population)

<table>
<thead>
<tr>
<th>Region</th>
<th>Million Persons</th>
<th>% of World Population</th>
</tr>
</thead>
<tbody>
<tr>
<td>Others</td>
<td>4,057</td>
<td>56.5%</td>
</tr>
<tr>
<td>NAFTA</td>
<td>478</td>
<td>6.6%</td>
</tr>
<tr>
<td>CJK</td>
<td>1,542</td>
<td>21.3%</td>
</tr>
<tr>
<td>ASEAN</td>
<td>623</td>
<td>8.6%</td>
</tr>
<tr>
<td>EU</td>
<td>508</td>
<td>7%</td>
</tr>
</tbody>
</table>

**Tourist Arrivals in 2014**

(Thousand Persons)

- China: 6,127
- Japan: 2,718
- Korea: 2,409
- ASEAN: 2,755
- NAFTA: 4,182
- EU: 2,280
Gross Domestic Product in 2014
(% of World GDP)

EU 18,460 Billion US$ 23.8%
CJK 16,371 Billion US$ 21%
NAFTA 20,488 Billion US$ 26.3%
ASEAN 2,478 Billion US$ 3.2%

Trade Volumes in 2013
(% of World Trade)

Others 13,588 29.4%
NAFTA 6,971 15.1%
CJK 7,714 16.7%
ASEAN 3,028 6.6%
EU 14,854 32.2%
### 2014 at a Glance

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

* Total = China + Japan + ROK
** (%) = Percentage of World

Source

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

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## Regional Economies (2014)

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

* The data of APEC were sourced from StatsAPEC  
** GDP of New Zealand and Papua New Guinea used 2013 date and GCC GDP used data in 2013 for Kuwait.  
*** It does not include Myanmar's, Papua New Guinea's, Bahrain's, Oman's, Qatar's and Venezuela's data.  
1. BRICS: Brazil, Russia, India, China, South Africa  
2. GCC(Gulf Cooperation Council): Bahrain, Kuwait, Oman, Qatar, Saudi Arabia, United Arab Emirates  
3. MERCOSUR(Southern Common Market): Argentina, Brazil, Paraguay, Uruguay, Venezuela  

** Source **: World Bank
Basic Indicators

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

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

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

*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 Growth Rate

<table>
<thead>
<tr>
<th>Year</th>
<th>China</th>
<th>Japan</th>
<th>ROK</th>
</tr>
</thead>
<tbody>
<tr>
<td>2005</td>
<td>11.4</td>
<td>1.3</td>
<td>3.9</td>
</tr>
<tr>
<td>2006</td>
<td>12.7</td>
<td>1.7</td>
<td>5.2</td>
</tr>
<tr>
<td>2007</td>
<td>14.2</td>
<td>2.2</td>
<td>5.5</td>
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<tr>
<td>2008</td>
<td>9.6</td>
<td>-1.0</td>
<td>2.8</td>
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<tr>
<td>2009</td>
<td>9.2</td>
<td>-5.5</td>
<td>0.7</td>
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<tr>
<td>2010</td>
<td>10.6</td>
<td>4.7</td>
<td>6.5</td>
</tr>
<tr>
<td>2011</td>
<td>9.5</td>
<td>-0.5</td>
<td>3.7</td>
</tr>
<tr>
<td>2012</td>
<td>7.8</td>
<td>1.8</td>
<td>2.3</td>
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<td>2013</td>
<td>7.7</td>
<td>1.6</td>
<td>2.9</td>
</tr>
<tr>
<td>2014</td>
<td>7.4</td>
<td>-0.1</td>
<td>3.3</td>
</tr>
</tbody>
</table>

**Source:** World Bank

---

**GDP Growth Rate**

![Graph of GDP Growth Rate](image-url)
## GDP per Capita

Unit: US $

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

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

**Source**: World Bank
## Consumer Prices Index

### CPI (Consumer Prices Index)

<table>
<thead>
<tr>
<th>Year</th>
<th>China</th>
<th>Japan</th>
<th>ROK</th>
</tr>
</thead>
<tbody>
<tr>
<td>2005</td>
<td>1.8</td>
<td>-0.3</td>
<td>2.8</td>
</tr>
<tr>
<td>2006</td>
<td>1.5</td>
<td>0.2</td>
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<td>2007</td>
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<td>2008</td>
<td>5.9</td>
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<tr>
<td>2009</td>
<td>-0.7</td>
<td>-1.3</td>
<td>2.8</td>
</tr>
<tr>
<td>2010</td>
<td>3.3</td>
<td>-0.7</td>
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<td>-0.3</td>
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</tr>
<tr>
<td>2013</td>
<td>2.6</td>
<td>0.4</td>
<td>1.3</td>
</tr>
<tr>
<td>2014</td>
<td>2.0</td>
<td>2.7</td>
<td>1.3</td>
</tr>
</tbody>
</table>

**Source:** International Monetary Fund (IMF)

### Consumer Prices Index (CPI)

![Graph of Consumer Prices Index](image-url)
2. Basic Indicators

<table>
<thead>
<tr>
<th>Year</th>
<th>China</th>
<th>Japan</th>
<th>ROK</th>
</tr>
</thead>
<tbody>
<tr>
<td>2005</td>
<td>831.4</td>
<td>846.9</td>
<td>210.6</td>
</tr>
<tr>
<td>2006</td>
<td>1,080.8</td>
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<td>239.1</td>
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<tr>
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<td>1,546.4</td>
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<td>262.5</td>
</tr>
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<td>1,966.0</td>
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<td>201.5</td>
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<td>2009</td>
<td>2,452.9</td>
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<td>2010</td>
<td>2,913.7</td>
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<td>3,254.7</td>
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<td>3,387.5</td>
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<td>2013</td>
<td>3,880.4</td>
<td>1,266.9</td>
<td>345.7</td>
</tr>
</tbody>
</table>

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

Source: World Bank

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

<table>
<thead>
<tr>
<th></th>
<th>China</th>
<th>Japan</th>
<th>ROK</th>
</tr>
</thead>
<tbody>
<tr>
<td>2005</td>
<td>132,378 (5.9)</td>
<td>170,123 (3.7)</td>
<td>12,655 (1.4)</td>
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<tr>
<td>2006</td>
<td>231,843 (8.5)</td>
<td>174,673 (4.0)</td>
<td>3,569 (0.4)</td>
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<tr>
<td>2007</td>
<td>353,183 (10.1)</td>
<td>211,736 (4.9)</td>
<td>11,795 (1.1)</td>
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<td>2008</td>
<td>420,569 (9.3)</td>
<td>142,116 (2.9)</td>
<td>3,190 (0.3)</td>
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<td>2009</td>
<td>243,257 (4.9)</td>
<td>145,678 (2.9)</td>
<td>33,593 (3.7)</td>
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<tr>
<td>2010</td>
<td>237,810 (4.0)</td>
<td>217,550 (4.0)</td>
<td>28,850 (2.6)</td>
</tr>
<tr>
<td>2011</td>
<td>136,097 (1.9)</td>
<td>126,236 (2.1)</td>
<td>18,656 (1.6)</td>
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<tr>
<td>2012</td>
<td>215,392 (2.6)</td>
<td>59,098 (1.0)</td>
<td>50,835 (4.2)</td>
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<tr>
<td>2013</td>
<td>182,807 (2.0)</td>
<td>34,068 (0.7)</td>
<td>81,148 (6.2)</td>
</tr>
<tr>
<td>2014</td>
<td>-</td>
<td>24,405 (0.5)</td>
<td>89,220 (6.3)</td>
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</table>

*At current prices

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

**Source**: World Bank

### Balance of Payment

---

**Unit**: Million US$ (% of GDP)

![Graph showing the balance of payment for China, Japan, and ROK from 2005 to 2014.](image-url)

- 19 -
3-1. Total Population
3-2. Annual Growth Rate of Population
3-3. Population Density
3-4. Population in Urban and Rural Areas
3-5. Population Distribution by Age Group
3-6. Age Dependency Ratio
3-7. Population Estimates
## 3. Population

### Total Population

<table>
<thead>
<tr>
<th>Year</th>
<th>World</th>
<th>China</th>
<th>Japan</th>
<th>ROK</th>
<th>Others</th>
<th>% of World Population</th>
</tr>
</thead>
<tbody>
<tr>
<td>2005</td>
<td>6,489,887</td>
<td>1,303,720</td>
<td>127,773</td>
<td>48,138</td>
<td>5,011,110</td>
<td>77.21</td>
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<tr>
<td>2006</td>
<td>6,567,781</td>
<td>1,311,020</td>
<td>127,854</td>
<td>48,372</td>
<td>5,081,494</td>
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<td>2007</td>
<td>6,645,687</td>
<td>1,317,885</td>
<td>128,001</td>
<td>48,598</td>
<td>5,152,655</td>
<td>77.53</td>
</tr>
<tr>
<td>2008</td>
<td>6,724,771</td>
<td>1,324,655</td>
<td>128,063</td>
<td>48,949</td>
<td>5,224,746</td>
<td>77.69</td>
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<tr>
<td>2009</td>
<td>6,804,046</td>
<td>1,331,260</td>
<td>128,047</td>
<td>49,182</td>
<td>5,297,251</td>
<td>77.85</td>
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<tr>
<td>2010</td>
<td>6,884,008</td>
<td>1,337,705</td>
<td>128,070</td>
<td>49,410</td>
<td>5,370,653</td>
<td>78.02</td>
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<tr>
<td>2011</td>
<td>6,964,618</td>
<td>1,344,130</td>
<td>127,817</td>
<td>49,779</td>
<td>5,444,219</td>
<td>78.17</td>
</tr>
<tr>
<td>2012</td>
<td>7,043,181</td>
<td>1,350,695</td>
<td>127,561</td>
<td>50,004</td>
<td>5,518,109</td>
<td>78.35</td>
</tr>
<tr>
<td>2013</td>
<td>7,125,097</td>
<td>1,357,380</td>
<td>127,339</td>
<td>50,220</td>
<td>5,590,158</td>
<td>78.46</td>
</tr>
<tr>
<td>2014</td>
<td>7,207,735</td>
<td>1,364,270</td>
<td>127,132</td>
<td>50,424</td>
<td>5,665,909</td>
<td>78.61</td>
</tr>
</tbody>
</table>

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

**Source**: World Bank

### Total Population and Growth Rate

The chart illustrates the trend of total population and growth rate from 2005 to 2014 for China, Japan, ROK, China (%), Japan (%), and ROK (%). The growth rates are presented in both absolute and percentage terms.
### Growth Rate of Population

<table>
<thead>
<tr>
<th>Year</th>
<th>China (%)</th>
<th>Japan (%)</th>
<th>ROK (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2005</td>
<td>0.59</td>
<td>0.01</td>
<td>0.21</td>
</tr>
<tr>
<td>2006</td>
<td>0.56</td>
<td>0.06</td>
<td>0.48</td>
</tr>
<tr>
<td>2007</td>
<td>0.52</td>
<td>0.11</td>
<td>0.47</td>
</tr>
<tr>
<td>2008</td>
<td>0.51</td>
<td>0.05</td>
<td>0.72</td>
</tr>
<tr>
<td>2009</td>
<td>0.50</td>
<td>-0.01</td>
<td>0.48</td>
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<tr>
<td>2010</td>
<td>0.48</td>
<td>0.02</td>
<td>0.46</td>
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<tr>
<td>2011</td>
<td>0.48</td>
<td>-0.20</td>
<td>0.74</td>
</tr>
<tr>
<td>2012</td>
<td>0.49</td>
<td>-0.20</td>
<td>0.45</td>
</tr>
<tr>
<td>2013</td>
<td>0.49</td>
<td>-0.17</td>
<td>0.43</td>
</tr>
<tr>
<td>2014</td>
<td>0.51</td>
<td>-0.16</td>
<td>0.41</td>
</tr>
</tbody>
</table>

* 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
# Population Density

Unit: Persons Per Square km of Land Area

<table>
<thead>
<tr>
<th>Year</th>
<th>China</th>
<th>Japan</th>
<th>ROK</th>
</tr>
</thead>
<tbody>
<tr>
<td>2005</td>
<td>138.9</td>
<td>350.5</td>
<td>497.0</td>
</tr>
<tr>
<td>2006</td>
<td>139.6</td>
<td>350.8</td>
<td>499.3</td>
</tr>
<tr>
<td>2007</td>
<td>140.4</td>
<td>351.2</td>
<td>501.4</td>
</tr>
<tr>
<td>2008</td>
<td>141.1</td>
<td>351.3</td>
<td>504.5</td>
</tr>
<tr>
<td>2009</td>
<td>141.8</td>
<td>351.3</td>
<td>506.5</td>
</tr>
<tr>
<td>2010</td>
<td>142.5</td>
<td>351.3</td>
<td>508.2</td>
</tr>
<tr>
<td>2011</td>
<td>143.2</td>
<td>350.6</td>
<td>512.0</td>
</tr>
<tr>
<td>2012</td>
<td>143.9</td>
<td>349.9</td>
<td>513.7</td>
</tr>
<tr>
<td>2013</td>
<td>144.6</td>
<td>349.3</td>
<td>515.9</td>
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<tr>
<td>2014</td>
<td>145.3</td>
<td>348.7</td>
<td>518.0</td>
</tr>
</tbody>
</table>

**Source**: World Bank

**Persons Per Square km of Land Area**

- China
- Japan
- ROK
### Population in Urban and Rural Areas

#### Unit: Thousand Persons

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

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

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

#### Unit: % of Total Population (% of growth)

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

Source: World Bank
3. Population

Population in Urban and Rural Areas

Urban Population Growth Rate
### Population Distribution by Age Group

**Unit:** %

<table>
<thead>
<tr>
<th>Age Group</th>
<th>World</th>
<th>China</th>
<th>Japan</th>
<th>ROK</th>
</tr>
</thead>
<tbody>
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<td>64.66</td>
<td>71.82</td>
<td>66.35</td>
<td>71.62</td>
</tr>
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<td>15-64</td>
<td>20.51</td>
<td>72.43</td>
<td>71.62</td>
<td>9.29</td>
</tr>
<tr>
<td>65+</td>
<td>7.31</td>
<td>7.67</td>
<td>19.85</td>
<td>9.66</td>
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<td>0-14</td>
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<td>72.89</td>
<td>65.41</td>
<td>71.76</td>
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<td>19.76</td>
<td>7.81</td>
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<td>21.64</td>
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<td>8.94</td>
<td>17.4</td>
<td>10.72</td>
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<td>64.34</td>
<td>72.48</td>
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<td>22.29</td>
<td>7.26</td>
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<td>7.94</td>
<td>16.8</td>
<td>11.08</td>
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<td>22.96</td>
<td>11.44</td>
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<td>8.51</td>
<td>15.73</td>
<td>11.81</td>
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<td>62.49</td>
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<td>24.4</td>
<td>12.17</td>
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<td>15.25</td>
<td>12.58</td>
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<td>72.92</td>
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<td>18.03</td>
<td>8.88</td>
<td>25.08</td>
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<tr>
<td>65+</td>
<td>7.94</td>
<td>8.88</td>
<td>14.89</td>
<td>12.58</td>
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</table>

**Source:** World Bank
<table>
<thead>
<tr>
<th>Age Group</th>
<th>Total</th>
<th>Old</th>
<th>Young</th>
<th>Total</th>
<th>Old</th>
<th>Young</th>
<th>Total</th>
<th>Old</th>
<th>Young</th>
<th>Total</th>
<th>Old</th>
<th>Young</th>
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<tbody>
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<td>2005</td>
<td>56.2</td>
<td>11.3</td>
<td>43.3</td>
<td>39.2</td>
<td>10.7</td>
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<td>50.7</td>
<td>29.9</td>
<td>20.8</td>
<td>39.6</td>
<td>13</td>
<td>26.7</td>
</tr>
<tr>
<td>2006</td>
<td>55.6</td>
<td>11.4</td>
<td>42.6</td>
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* Age dependency ratio is the ratio of dependents (people younger than 15 or older than 64) to the working-age population, those ages 15-64. Data are shown as the proportion of dependents per 100 working-age population. ([Younger than 15 or Older than 64]/Working population, ages 15-64)*100
** Age dependency ratio, old, is the ratio of older dependents—people older than 64 (to the working-age population) to those ages 15-64. ([Older than 64]/Working population, ages 15-64)*100
*** Age dependency ratio, young, is the ratio of younger dependent (people younger than 15) to the working-age population—those ages 15-64. ([Younger than 15]/Working population, ages 15-64)*100

Source: World Bank

Age Dependency Ratio (2014)

![Age Dependency Ratio Chart](chart.png)
# Population Estimates

Unit: Thousand Persons

<table>
<thead>
<tr>
<th>Future Total Population</th>
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<th>Japan</th>
<th>ROK</th>
</tr>
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<td>126,818</td>
<td>49,750</td>
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<table>
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<td>2020</td>
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<td>2080</td>
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<tr>
<td>2090</td>
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<td>2100</td>
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Source: World Population Prospects: The 2012 Revision, UN Department of Economic and Social Affairs Population Division (2013)
Future Population Distribution by Age Group

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%
Social Welfare

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

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<th>ROK</th>
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</table>

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

Source: World Bank
## Aging Index

<table>
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<th>ROK</th>
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</table>

* Aging Index = \((65 \text{ and above}/0-14 \text{ Age}) \times 100\)

### Source
World Bank

---

### Aging Index

![Image of Aging Index chart]

- **World**: Orange
- **China**: Red
- **Japan**: Blue
- **ROK**: Green

- **%**: 0 to 200
- **Years**: 2005 to 2014
### 4. Social Welfare

#### 4-3 Average Life Expectancy

<table>
<thead>
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<tbody>
<tr>
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<td>Female</td>
<td>Total</td>
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<td>75.4</td>
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*Average life expectancy indicates the number of years a newborn infant would live if prevailing patterns of mortality at the time of its birth were to stay the same throughout its life.*

**Source:** World Bank

### Average Life Expectancy (2013)

![Average Life Expectancy Chart](chart.png)
## School Enrollment

**Unit: % Gross**

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<th>Year</th>
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<th>Secondary</th>
<th>Tertiary</th>
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<td>89</td>
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<table>
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<th>Secondary</th>
<th>Tertiary</th>
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<table>
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</table>

* 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
School Enrollment (China)

% Gross

- Pre-primary
- Primary
- Secondary
- Tertiary

2008: 128, 51, 101, 103
2009: 129, 75, 102, 102
2010: 129, 79, 102, 102
2011: 128, 62, 87, 88
2012: 128, 70, 89, 88

School Enrollment (Japan)

% Gross

- Pre-primary
- Primary
- Secondary
- Tertiary

2008: 90, 101, 52, 61
2009: 90, 102, 58, 58
2010: 102, 88, 58, 58
2011: 102, 87, 58, 61
2012: 102, 88, 61, 61
## School Enrollment (ROK)

<table>
<thead>
<tr>
<th>Year</th>
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<th>Primary</th>
<th>Secondary</th>
<th>Tertiary</th>
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% Gross

*Graph showing school enrollment trends from 2008 to 2012 for Pre-primary, Primary, Secondary, and Tertiary levels.*
### Employment and Unemployment

**Labor Force and Unemployed (Total)**

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* 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.

### Employment in Agriculture, Industry, and Services

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

Thousand Persons

Employment in each sector (2013)

% of Total Employment

- Agriculture
- Industry
- Services

China
- 31.4
- 30.1
- 38.5

Japan
- 16.5
- 79.8
- 77.2

ROK
- 16.8
- 3.7
- 6
## Unemployment Rate

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

### 5-1 Trade Volumes

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<th>ASEAN** Import</th>
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<th>China Import</th>
<th>Japan Export</th>
<th>Japan Import</th>
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### % of World

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<tr>
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### % of ASEAN + 3

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<td>11.6</td>
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* The data includes only merchandise trade.
** ASEAN: Philippines, Malaysia, Singapore, Indonesia, Thai, Brunei, Vietnam, Lao PDR, Cambodia, Myanmar
*** ASEAN + 3 include members of ASEAN and China, Japan, ROK.

Source: United Nations Conference on Trade and Development (UNCTAD)
Trade Volumes (2014)

<table>
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<th>% of World</th>
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CJK 18.3
5-2 Trade Dependency

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<th>ROK</th>
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<td>-</td>
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<td>-</td>
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* Trade dependency is the ratio of total trade volume to GDP.

Source: World Bank

Units: % of GDP
### Trade Relations among the Three Countries (China)

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

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<th></th>
<th>Export to</th>
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<th>Import from</th>
<th></th>
<th>Total</th>
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<td>ROK</td>
<td>Japan</td>
<td>ROK</td>
<td>Exports</td>
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<td>194,568 (11.2)</td>
<td>162,717 (9.3)</td>
<td>1,888,388</td>
</tr>
<tr>
<td>2012</td>
<td>151,627 (7.4)</td>
<td>87,674 (4.3)</td>
<td>177,832 (9.8)</td>
<td>168,728 (9.3)</td>
<td>2,048,782</td>
</tr>
<tr>
<td>2013</td>
<td>150,133 (6.8)</td>
<td>91,165 (4.1)</td>
<td>162,246 (8.3)</td>
<td>183,073 (9.4)</td>
<td>2,209,007</td>
</tr>
</tbody>
</table>

**Source:** World Integrated Trade Solution (WITS)

### Trade Relations among the Three Countries (China)

![Graph showing trade relations between three countries from 2004 to 2013](image-url)

<table>
<thead>
<tr>
<th>Year</th>
<th>Japan</th>
<th>ROK</th>
</tr>
</thead>
<tbody>
<tr>
<td>2004</td>
<td>167,836</td>
<td>90,046</td>
</tr>
<tr>
<td>2005</td>
<td>184,394</td>
<td>111,928</td>
</tr>
<tr>
<td>2006</td>
<td>207,296</td>
<td>134,246</td>
</tr>
<tr>
<td>2007</td>
<td>228,849</td>
<td>160,184</td>
</tr>
<tr>
<td>2008</td>
<td>256,232</td>
<td>156,232</td>
</tr>
<tr>
<td>2009</td>
<td>297,780</td>
<td>207,105</td>
</tr>
<tr>
<td>2010</td>
<td>342,837</td>
<td>245,637</td>
</tr>
<tr>
<td>2011</td>
<td>329,459</td>
<td>274,238</td>
</tr>
<tr>
<td>2012</td>
<td>312,379</td>
<td>256,402</td>
</tr>
<tr>
<td>2013</td>
<td>297,780</td>
<td>274,238</td>
</tr>
</tbody>
</table>
5. Trade

Trade Relations among the Three Countries (Japan)

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

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

Source: World Integrated Trade Statistics (WITS)
## Trade Relations among the Three Countries (ROK)

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

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

**Source** World Integrated Trade Statistics (WITS)

### Trade Relations among the Three Countries (ROK)

<table>
<thead>
<tr>
<th>Year</th>
<th>China</th>
<th>Japan</th>
</tr>
</thead>
<tbody>
<tr>
<td>2004</td>
<td>79,348</td>
<td>67,845</td>
</tr>
<tr>
<td>2005</td>
<td>100,563</td>
<td>72,430</td>
</tr>
<tr>
<td>2006</td>
<td>168,316</td>
<td>78,460</td>
</tr>
<tr>
<td>2007</td>
<td>140,949</td>
<td>82,620</td>
</tr>
<tr>
<td>2008</td>
<td>145,010</td>
<td>71,198</td>
</tr>
<tr>
<td>2009</td>
<td>208,411</td>
<td>89,208</td>
</tr>
<tr>
<td>2010</td>
<td>118,016</td>
<td>92,472</td>
</tr>
<tr>
<td>2011</td>
<td>220,616</td>
<td>107,999</td>
</tr>
<tr>
<td>2012</td>
<td>215,104</td>
<td>115,104</td>
</tr>
<tr>
<td>2013</td>
<td>228,920</td>
<td>103,159</td>
</tr>
</tbody>
</table>

- 49 -
### Top 10 Export Markets (2013)

<table>
<thead>
<tr>
<th>Rank</th>
<th>Country</th>
<th>China</th>
<th>Japan</th>
<th>ROK</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Hong Kong</td>
<td>384,792</td>
<td>USA</td>
<td>China</td>
</tr>
<tr>
<td>2</td>
<td>USA</td>
<td>368,427</td>
<td>China</td>
<td>129,052</td>
</tr>
<tr>
<td>3</td>
<td>Japan</td>
<td>150,275</td>
<td>ROK</td>
<td>56,503</td>
</tr>
<tr>
<td>4</td>
<td>ROK</td>
<td>91,176</td>
<td>Taipei, China</td>
<td>41,617</td>
</tr>
<tr>
<td>5</td>
<td>Germany</td>
<td>67,348</td>
<td>Hong Kong</td>
<td>37,348</td>
</tr>
<tr>
<td>6</td>
<td>Netherlands</td>
<td>60,317</td>
<td>Thailand</td>
<td>35,985</td>
</tr>
<tr>
<td>7</td>
<td>UK</td>
<td>50,949</td>
<td>Singapore</td>
<td>20,962</td>
</tr>
<tr>
<td>8</td>
<td>Russia</td>
<td>49,595</td>
<td>Germany</td>
<td>18,931</td>
</tr>
<tr>
<td>9</td>
<td>India</td>
<td>48,443</td>
<td>Australia</td>
<td>16,953</td>
</tr>
<tr>
<td>10</td>
<td>Singapore</td>
<td>45,864</td>
<td>Malaysia</td>
<td>15,236</td>
</tr>
<tr>
<td></td>
<td>Others</td>
<td>892,833</td>
<td>Others</td>
<td>207,626</td>
</tr>
</tbody>
</table>

**Source:** Country Profile (2014), Asian Development Bank (ADB)
Japan's Top 10 Export Markets

- China 26.1%
- USA 18.8%
- ROK 7.9%
- Taipei, China 5.8%
- Hong Kong 5.2%
- Thailand 5.0%
- Singapore 2.9%
- Germany 2.6%
- Australia 2.4%
- Malaysia 2.1%
- Others 35.3%

ROK's Top 10 Export Markets

- China 26.1%
- USA 11.1%
- Japan 6.2%
- Hong Kong 5.0%
- Singapore 4.0%
- Thailand 3.8%
- Taipei, China 2.8%
- Indonesia 2.1%
- India 2.0%
- Brazil 1.7%
- Others 35.3%
### Revealed Comparative Advantage (RCA) Index

RCA Indexes: Average 2009-2013

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

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

**Source**
World Integrated Trade Statistics (WITS)
## Merchandise Trade Balance

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

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

**Source**
United Nations Conference on Trade and Development (UNCTAD)
## Top 10 Export Commodities of China

Unit: Billion US$

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

**Source:**
United Nations Commodity Trade (UNCOMTRADE) 2013 International Trade Statistics Yearbook
## Top 10 Import Commodities of China

Unit: Billion US$

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

**All Commodities**

<table>
<thead>
<tr>
<th></th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1743.4</td>
<td>1818.2</td>
<td>1950.0</td>
</tr>
</tbody>
</table>

**Source**

United Nations Commodity Trade (UNCOMTRADE) 2013 International Trade Statistics Yearbook
## Top 10 Export Commodities of Japan

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

**Source**
United Nations Commodity Trade (UNCOMTRADE) 2013 International Trade Statistics Yearbook
### Top 10 Import Commodities of Japan

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

**Source:** United Nations Commodity Trade (UNCOMTRADE) 2013 International Trade Statistics Yearbook
### Top 10 Export Commodities of ROK

Unit: Million US$

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

**All Commodities**

|                        | 555,208.9 | 547,854.4 | 559,618.6 |

**Source**

United Nations Commodity Trade (UNCOMTRADE) 2013 International Trade Statistics Yearbook
## Top 10 Import Commodities of ROK

<table>
<thead>
<tr>
<th>HS-4 digits</th>
<th>Products</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>2709</td>
<td>Petroleum oils and oils obtained from bituminous minerals, crude</td>
<td>100,805.6</td>
<td>108,298.2</td>
<td>99,333.2</td>
</tr>
<tr>
<td>2711</td>
<td>Petroleum gases and other gaseous hydrocarbons</td>
<td>30,182.7</td>
<td>33,834.1</td>
<td>36,320.7</td>
</tr>
<tr>
<td>8542</td>
<td>Electronic integrated circuits</td>
<td>25,369.8</td>
<td>25,421.6</td>
<td>27,808.5</td>
</tr>
<tr>
<td>2710</td>
<td>Petroleum oils, other than crude</td>
<td>22,029.9</td>
<td>25,700.6</td>
<td>28,842.4</td>
</tr>
<tr>
<td>2701</td>
<td>Coal; briquettes, ovoids and similar solid fuels manufactured from coal</td>
<td>18,283.7</td>
<td>15,908.0</td>
<td>12,951.0</td>
</tr>
<tr>
<td>2601</td>
<td>Iron ores and concentrates, including roasted iron pyrites</td>
<td>11,380.8</td>
<td>9,531.7</td>
<td>8,354.2</td>
</tr>
<tr>
<td>8486</td>
<td>Machines and apparatus used for the manufacture of semiconductor devices</td>
<td>10,336.2</td>
<td>8,219.3</td>
<td>6,436.7</td>
</tr>
<tr>
<td>8517</td>
<td>Electrical apparatus for line telephony or line telegraphy</td>
<td>8,492.5</td>
<td>5,373.1</td>
<td>5,857.8</td>
</tr>
<tr>
<td>7208</td>
<td>Flat-rolled products of iron or non-alloy steel</td>
<td>7,775.2</td>
<td>5,994.8</td>
<td>4,233.6</td>
</tr>
<tr>
<td>8541</td>
<td>Diodes, transistors and similar semiconductor devices</td>
<td>4,713.9</td>
<td>4,802.2</td>
<td>5,032.6</td>
</tr>
<tr>
<td><strong>All Commodities</strong></td>
<td><strong>524,405.2</strong></td>
<td><strong>519,575.6</strong></td>
<td><strong>515,573.0</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Source**
United Nations Commodity Trade (UNCOMTRADE) 2013 International Trade Statistics Yearbook
### Bilateral Exports of China

<table>
<thead>
<tr>
<th></th>
<th>Japan</th>
<th>ROK</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Machinery and transport equipment</td>
<td>Machinery and transport equipment</td>
</tr>
<tr>
<td>2</td>
<td>Miscellaneous manufactured articles</td>
<td>Manufactured goods</td>
</tr>
<tr>
<td>3</td>
<td>Manufactured goods</td>
<td>Miscellaneous manufactured articles</td>
</tr>
<tr>
<td>4</td>
<td>Food and live animals</td>
<td>Chemicals and related products, n.e.s.</td>
</tr>
<tr>
<td>5</td>
<td>Chemicals and related products, n.e.s.</td>
<td>Food and live animals</td>
</tr>
<tr>
<td>6</td>
<td>Crude materials, inedible, except fuels</td>
<td>Mineral fuels, lubricants and related materials</td>
</tr>
<tr>
<td>7</td>
<td>Mineral fuels, lubricants and related materials</td>
<td>Crude materials, inedible, except fuels</td>
</tr>
<tr>
<td>8</td>
<td>Beverages and tobacco</td>
<td>Beverages and tobacco</td>
</tr>
<tr>
<td>9</td>
<td>Animal and vegetable oils, fats and waxes</td>
<td>Animal and vegetable oils, fats and waxes</td>
</tr>
<tr>
<td>10</td>
<td>Commodities and transactions, n.e.s.</td>
<td>Commodities and transactions, n.e.s.</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>148,269</td>
<td>82,920</td>
</tr>
</tbody>
</table>

* The products are categorized by SITC sections.
** Sorting according to 2013’s data.

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

* The products are categorized by SITC sections.
** Sorting according to 2013’s data.

Source: United Nations Conference on Trade and Development (UNCTAD)
## Bilateral Trade of China in 2013
(Merchandise Detailed Products)

Unit: Million US$

<table>
<thead>
<tr>
<th>Rank</th>
<th>Japan</th>
<th>Export</th>
<th>ROK</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>[764] Telecommunication equipment, n.e.s.; &amp; parts, n.e.s.</td>
<td>$11,960</td>
<td>[764] Telecommunication equipment, n.e.s.; &amp; parts, n.e.s.</td>
</tr>
<tr>
<td>2</td>
<td>[752] Automatic data processing machines, n.e.s.</td>
<td>$9,759</td>
<td>[776] Cathode valves &amp; tubes</td>
</tr>
<tr>
<td>3</td>
<td>[845] Articles of apparel, of textile fabrics, n.e.s.</td>
<td>$7,477</td>
<td>[752] Automatic data processing machines, n.e.s.</td>
</tr>
<tr>
<td>5</td>
<td>[842] Women’s clothing, of textile fabrics</td>
<td>$4,673</td>
<td>[676] Flat-rolled products of alloy steel</td>
</tr>
<tr>
<td>6</td>
<td>[821] Furniture &amp; parts</td>
<td>$3,877</td>
<td>[676] Iron &amp; steel bars, rods, angles, shapes &amp; sections</td>
</tr>
<tr>
<td>7</td>
<td>[775] Household type equipment, electrical or not, n.e.s.</td>
<td>$3,713</td>
<td>[772] Apparatus for electrical circuits; board, panels</td>
</tr>
<tr>
<td>8</td>
<td>[841] Men’s clothing of textile fabrics, not knitted</td>
<td>$3,621</td>
<td>[773] Equipment for distributing electricity, n.</td>
</tr>
<tr>
<td>9</td>
<td>[894] Baby carriages, toys, games &amp; sporting goods</td>
<td>$2,940</td>
<td>[778] Electrical machinery &amp; apparatus, n.e.s.</td>
</tr>
<tr>
<td>10</td>
<td>[658] Made-up articles, of textile materials, n.e.s.</td>
<td>$2,837</td>
<td>[674] Flat-rolled prod., iron, non-alloy steel, coated, clad</td>
</tr>
</tbody>
</table>

### Import

<table>
<thead>
<tr>
<th>Rank</th>
<th>Japan</th>
<th>Export</th>
<th>ROK</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>[776] Cathode valves &amp; tubes</td>
<td>$17,799</td>
<td>[776] Cathode valves &amp; tubes</td>
</tr>
<tr>
<td>2</td>
<td>[511] Hydrocarbons, n.e.s., &amp; halogenated, nitr. derivative</td>
<td>$7,299</td>
<td>[871] Optical instruments &amp; apparatus, n.e.s.</td>
</tr>
<tr>
<td>3</td>
<td>[784] Parts &amp; accessories of vehicles of 722, 781, 782, 783</td>
<td>$7,263</td>
<td>[764] Telecommunication equipment, n.e.s.; &amp; parts, n.e.s.</td>
</tr>
<tr>
<td>4</td>
<td>[871] Optical instruments &amp; apparatus, n.e.s.</td>
<td>$7,139</td>
<td>[511] Hydrocarbons, n.e.s., &amp; halogenated, nitr. derivative</td>
</tr>
<tr>
<td>5</td>
<td>[781] Motor vehicles for the transport of persons</td>
<td>$7,031</td>
<td>[334] Petroleum oils or bituminous minerals &gt; 70 % oil</td>
</tr>
<tr>
<td>6</td>
<td>[772] Apparatus for electrical circuits; board, panels</td>
<td>$6,982</td>
<td>[772] Apparatus for electrical circuits; board, panels</td>
</tr>
<tr>
<td>7</td>
<td>[728] Other machinery for particular industries, n.e.s.</td>
<td>$6,474</td>
<td>[784] Parts &amp; accessories of vehicles of 722, 781, 782, 783</td>
</tr>
<tr>
<td>8</td>
<td>[778] Electrical machinery &amp; apparatus, n.e.s.</td>
<td>$6,118</td>
<td>[575] Other plastics, in primary forms</td>
</tr>
<tr>
<td>9</td>
<td>[874] Measuring, analysing &amp; controlling apparatus, n.e.s.</td>
<td>$4,922</td>
<td>[728] Other machinery for particular industries, n.e.s.</td>
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<tr>
<td>10</td>
<td>[759] Parts, accessories for machines of groups 751,752</td>
<td>$5,542</td>
<td>[778] Electrical machinery &amp; apparatus, n.e.s.</td>
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</table>

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

**Source**
United Nations Conference on Trade and Development (UNCTAD)
<table>
<thead>
<tr>
<th></th>
<th>China</th>
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<th></th>
<th>ROK</th>
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<tbody>
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<td>19,949</td>
<td>21,064</td>
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<td>14,901</td>
<td>13,749</td>
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<td>3</td>
<td>Manufactured goods</td>
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<td>19,995</td>
<td>17,759</td>
<td>Manufactured goods</td>
<td>14,939</td>
<td>12,687</td>
<td>10,747</td>
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<td>4</td>
<td>Miscellaneous manufactured articles</td>
<td>14,644</td>
<td>14,582</td>
<td>13,418</td>
<td>Miscellaneous manufactured articles</td>
<td>5,574</td>
<td>6,051</td>
<td>5,243</td>
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<tr>
<td>5</td>
<td>Commodity and transactions, n.e.s.</td>
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<td>6,711</td>
<td>5,723</td>
<td>Commodity and transactions, n.e.s.</td>
<td>2,067</td>
<td>2,250</td>
<td>3,163</td>
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<tr>
<td>6</td>
<td>Crude materials, inedible, except fuels</td>
<td>5,282</td>
<td>5,548</td>
<td>5,174</td>
<td>Crude materials, inedible, except fuels</td>
<td>2,197</td>
<td>2,732</td>
<td>2,462</td>
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<tr>
<td>7</td>
<td>Mineral fuels, lubricants and related materials</td>
<td>2,171</td>
<td>1,891</td>
<td>1,588</td>
<td>Mineral fuels, lubricants and related materials</td>
<td>2,459</td>
<td>2,449</td>
<td>2,339</td>
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<tr>
<td>8</td>
<td>Food and live animals</td>
<td>299</td>
<td>324</td>
<td>343</td>
<td>Food and live animals</td>
<td>334</td>
<td>267</td>
<td>222</td>
</tr>
<tr>
<td>9</td>
<td>Beverages and tobacco</td>
<td>19</td>
<td>48</td>
<td>28</td>
<td>Beverages and tobacco</td>
<td>60</td>
<td>64</td>
<td>58</td>
</tr>
<tr>
<td>10</td>
<td>Animal and vegetable oils, fats and waxes</td>
<td>15</td>
<td>15</td>
<td>9</td>
<td>Animal and vegetable oils, fats and waxes</td>
<td>35</td>
<td>33</td>
<td>36</td>
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<tr>
<td></td>
<td><strong>Total</strong></td>
<td>162,036</td>
<td>144,208</td>
<td>129,401</td>
<td><strong>Total</strong></td>
<td>66,175</td>
<td>61,539</td>
<td>56,513</td>
</tr>
</tbody>
</table>

* The products are categorized by SITC sections.
** Sorting according to 2013’s data.

Source
United Nations Conference on Trade and Development (UNCTAD)
### Bilateral Imports of Japan

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Machinery and transport equipment</td>
<td>78,090</td>
<td>83,593</td>
<td>84,241</td>
<td>12,270</td>
<td>12,546</td>
<td>11,176</td>
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<tr>
<td>Miscellaneous manufactured articles</td>
<td>54,697</td>
<td>57,583</td>
<td>53,720</td>
<td>8,714</td>
<td>10,146</td>
<td>8,027</td>
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<tr>
<td>Manufactured goods</td>
<td>22,500</td>
<td>21,653</td>
<td>20,098</td>
<td>8,538</td>
<td>7,771</td>
<td>6,612</td>
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<tr>
<td>Chemicals and related products, n.e.s.</td>
<td>13,210</td>
<td>10,222</td>
<td>9,239</td>
<td>4,058</td>
<td>4,020</td>
<td>3,783</td>
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<tr>
<td>Food and live animals</td>
<td>9,172</td>
<td>9,833</td>
<td>8,815</td>
<td>1,652</td>
<td>1,721</td>
<td>1,486</td>
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<tr>
<td>Crude materials, inedible, except fuels</td>
<td>2,502</td>
<td>2,522</td>
<td>2,258</td>
<td>1,729</td>
<td>1803</td>
<td>1,484</td>
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<td>Commodities and transactions, n.e.s.</td>
<td>1,696</td>
<td>1,615</td>
<td>1,329</td>
<td>1,174</td>
<td>1,253</td>
<td>1,136</td>
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<tr>
<td>Mineral fuels, lubricants and related materials</td>
<td>1,907</td>
<td>1,280</td>
<td>1,116</td>
<td>1,247</td>
<td>870</td>
<td>789</td>
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<tr>
<td>Beverages and tobacco</td>
<td>72</td>
<td>96</td>
<td>97</td>
<td>422</td>
<td>455</td>
<td>424</td>
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<tr>
<td>Animal and vegetable oils, fats and waxes</td>
<td>35</td>
<td>47</td>
<td>65</td>
<td>8</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>183,884</strong></td>
<td><strong>188,434</strong></td>
<td><strong>180,978</strong></td>
<td><strong>39,812</strong></td>
<td><strong>40,592</strong></td>
<td><strong>35,824</strong></td>
</tr>
</tbody>
</table>

* The products are categorized by SITC sections.
** Sorting according to 2013’s data.

**Source** United Nations Conference on Trade and Development (UNCTAD)
### Bilateral Trade of Japan in 2013 (Merchandise Detailed Products)

#### Export

<table>
<thead>
<tr>
<th>Rank</th>
<th>Product Description</th>
<th>Value (Million US$)</th>
<th>ROK Value (Million US$)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>[776] Cathode valves &amp; tubes</td>
<td>10,057</td>
<td>3,528</td>
</tr>
<tr>
<td>2</td>
<td>[784] Parts &amp; accessories of vehicles of 722, 781, 782, 783</td>
<td>7,188</td>
<td>3,412</td>
</tr>
<tr>
<td>3</td>
<td>[511] Hydrocarbons, n.e.s., &amp; halogenated, nitr. derivative</td>
<td>6,958</td>
<td>2,987</td>
</tr>
<tr>
<td>4</td>
<td>[728] Other machinery for particular industries, n.e.s.</td>
<td>5,949</td>
<td>2,883</td>
</tr>
<tr>
<td>5</td>
<td>[781] Motor vehicles for the transport of persons</td>
<td>5,235</td>
<td>2,174</td>
</tr>
<tr>
<td>6</td>
<td>[772] Apparatus for electrical circuits; board, panels</td>
<td>4,685</td>
<td>2,046</td>
</tr>
<tr>
<td>7</td>
<td>[871] Optical instruments &amp; apparatus, n.e.s.</td>
<td>4,311</td>
<td>1,975</td>
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<tr>
<td>8</td>
<td>[778] Electrical machinery &amp; apparatus, n.e.s.</td>
<td>4,011</td>
<td>1,856</td>
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<tr>
<td>9</td>
<td>[874] Measuring, analysing &amp; controlling apparatus, n.e.s.</td>
<td>3,167</td>
<td>1,763</td>
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<tr>
<td>10</td>
<td>[759] Parts, accessories for machines of groups 751, 752</td>
<td>2,841</td>
<td>1,730</td>
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</tbody>
</table>

#### Import

<table>
<thead>
<tr>
<th>Rank</th>
<th>Product Description</th>
<th>Value (Million US$)</th>
<th>ROK Value (Million US$)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>[764] Telecommunication equipment, n.e.s.; &amp; parts, n.e.s.</td>
<td>23,900</td>
<td>8,326</td>
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<tr>
<td>2</td>
<td>[752] Automatic data processing machines, n.e.s.</td>
<td>13,883</td>
<td>2,673</td>
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<td>3</td>
<td>[845] Articles of apparel, of textile fabrics, n.e.s.</td>
<td>8,467</td>
<td>2,566</td>
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<tr>
<td>4</td>
<td>[842] Women’s clothing, of textile fabrics</td>
<td>5,465</td>
<td>1,243</td>
</tr>
<tr>
<td>5</td>
<td>[894] Baby carriages, toys, games &amp; sporting goods</td>
<td>5,342</td>
<td>1,235</td>
</tr>
<tr>
<td>6</td>
<td>[776] Cathode valves &amp; tubes</td>
<td>5,184</td>
<td>707</td>
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<tr>
<td>7</td>
<td>[821] Furniture &amp; parts</td>
<td>4,125</td>
<td>637</td>
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<tr>
<td>8</td>
<td>[775] Household type equipment, electrical or not, n.e.s.</td>
<td>4,086</td>
<td>549</td>
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<td>9</td>
<td>[851] Footwear</td>
<td>3,868</td>
<td>467</td>
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<tr>
<td>10</td>
<td>[841] Men’s clothing of textile fabrics, not knitted</td>
<td>3,735</td>
<td>444</td>
</tr>
</tbody>
</table>

* 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
## Bilateral Exports of ROK

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

* The products are categorized by SITC sections.
** Sorting according to 2013’s data.

Source: United Nations Conference on Trade and Development (UNCTAD)
## Bilateral Imports of ROK

<table>
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<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Machinery and transport equipment</td>
<td>37,903</td>
<td>35,999</td>
<td>37,816</td>
<td>Machinery and transport equipment</td>
<td>25,449</td>
<td>22,600</td>
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<td>Manufactured goods</td>
<td>21,148</td>
<td>19,290</td>
<td>19,013</td>
<td>Chemicals and related products, n.e.s.</td>
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<td>15,049</td>
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<td>Miscellaneous manufactured articles</td>
<td>12,739</td>
<td>12,608</td>
<td>12,791</td>
<td>Manufactured goods</td>
<td>15,662</td>
<td>13,667</td>
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<td>Chemicals and related products, n.e.s.</td>
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<td>7,075</td>
<td>7,381</td>
<td>Miscellaneous manufactured articles</td>
<td>6,536</td>
<td>7,028</td>
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<tr>
<td>5</td>
<td>Food and live animals</td>
<td>3,139</td>
<td>2,835</td>
<td>3,169</td>
<td>Mineral fuels, lubricants and related materials</td>
<td>1,827</td>
<td>2,426</td>
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<tr>
<td>6</td>
<td>Crude materials, inedible, except fuels</td>
<td>1,594</td>
<td>1,448</td>
<td>1,437</td>
<td>Crude materials, inedible, except fuels</td>
<td>2,381</td>
<td>2,979</td>
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<tr>
<td>7</td>
<td>Mineral fuels, lubricants and related materials</td>
<td>2,100</td>
<td>1,400</td>
<td>1,344</td>
<td>Commodities and transactions, n.e.s.</td>
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<td>240</td>
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<td>8</td>
<td>Beverages and tobacco</td>
<td>23</td>
<td>27</td>
<td>40</td>
<td>Food and live animals</td>
<td>371</td>
<td>281</td>
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<td>9</td>
<td>Commodities and transactions, n.e.s.</td>
<td>23</td>
<td>80</td>
<td>40</td>
<td>Beverages and tobacco</td>
<td>55</td>
<td>55</td>
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<tr>
<td>10</td>
<td>Animal and vegetable oils, fats and waxes</td>
<td>28</td>
<td>20</td>
<td>21</td>
<td>Animal and vegetable oils, fats and waxes</td>
<td>41</td>
<td>37</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>86,431</td>
<td>80,782</td>
<td>83,052</td>
<td>68,319</td>
<td>64,362</td>
<td>60,030</td>
<td></td>
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* The products are categorized by SITC sections.
** Sorting according to 2013’s data.

**Source** United Nations Conference on Trade and Development (UNCTAD)
### Bilateral Trade of ROK in 2013 (Merchandise Detailed Products)

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

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

**Source**

United Nations Conference on Trade and Development (UNCTAD)
6-1. Foreign Direct Investment Inflows
6-2. Foreign Direct Investment Outflows
6-3. Foreign Direct Investment Inward Stocks
6-4. Foreign Direct Investment Outward Stocks
6-5. Doing Business Index of China
6-6. Doing Business Index of Japan
6-7. Doing Business Index of ROK
6-8. Doing Business Start-up Indicators
6-9. FDI Regulatory Restrictiveness Index
6-1 Foreign Direct Investment Inflows

Unit: Million US $

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

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

FDI Inflows (China)
### FDI Inflows (Japan)

- **Million US $**
- **Years:** 2004 - 2012
- **Countries:** Japan, China

### FDI Inflows (ROK)

- **Million US $**
- **Years:** 2004 - 2012
- **Countries:** China, Japan
### 6.2 Foreign Direct Investment Outflows

**Unit: Million US $**

<table>
<thead>
<tr>
<th></th>
<th>From China</th>
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</tr>
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<td>ROK</td>
</tr>
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<td>40</td>
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<td>26,510</td>
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<td>265</td>
</tr>
<tr>
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<td>68,811</td>
<td>338</td>
<td>-722</td>
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<tr>
<td>2011</td>
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<tr>
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<td>211</td>
<td>942</td>
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<tr>
<td>2013</td>
<td>101,000</td>
<td>–</td>
<td>–</td>
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</tbody>
</table>

**Source**: United Nations Conference on Trade and Development (UNCTAD)

### FDI Outflows (China)

![Chart showing FDI Outflows (China) from 2004 to 2012](image-url)

- Japan
- ROK

---

- 72 -
FDI Outflows (Japan)

Million US $

<table>
<thead>
<tr>
<th>Year</th>
<th>Japan</th>
<th>ROK</th>
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</thead>
<tbody>
<tr>
<td>2004</td>
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<tr>
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<td>6,203</td>
<td>1,302</td>
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<td>4,007</td>
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FDI Outflows (ROK)

Million US $

<table>
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<th>ROK</th>
</tr>
</thead>
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<tr>
<td>2004</td>
<td>259</td>
<td>2,039</td>
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<tr>
<td>2005</td>
<td>79</td>
<td>2,620</td>
</tr>
<tr>
<td>2006</td>
<td>233</td>
<td>3,159</td>
</tr>
<tr>
<td>2007</td>
<td>471</td>
<td>3,418</td>
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<tr>
<td>2008</td>
<td>388</td>
<td>2,368</td>
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<td>2009</td>
<td>363</td>
<td>1,715</td>
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<tr>
<td>2010</td>
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<tr>
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### Foreign Direct Investment Inward Stocks

#### Unit: Million US $

<table>
<thead>
<tr>
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<th>To Japan</th>
<th>To ROK</th>
</tr>
</thead>
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<tr>
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<td>Japan</td>
<td>ROK</td>
</tr>
<tr>
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<td>46,846</td>
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<tr>
<td>2005</td>
<td>272,094</td>
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<td>31,104</td>
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<tr>
<td>2006</td>
<td>292,559</td>
<td>57,973</td>
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<td>327,087</td>
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<tr>
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<td>378,083</td>
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<td>2009</td>
<td>473,083</td>
<td>69,481</td>
<td>44,610</td>
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<tr>
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<td>587,817</td>
<td>73,565</td>
<td>47,303</td>
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<tr>
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<td>711,802</td>
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<td>49,854</td>
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<td>832,882</td>
<td>87,247</td>
<td>52,892</td>
</tr>
<tr>
<td>2013</td>
<td>956,793</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

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

### FDI Inward Stocks among CJK Countries

- **Million US**

  - **Japan to China**
  - **ROK to China**
  - **China to ROK**
  - **China to Japan**
  - **ROK to Japan**

- **2004**: 0
- **2005**: 25,000
- **2006**: 50,000
- **2007**: 75,000
- **2008**: 100,000
- **2009**: 125,000
- **2010**: 150,000
- **2011**: 175,000
- **2012**: 200,000
### Foreign Direct Investment Outward Stocks

<table>
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<tr>
<th>Year</th>
<th>From China</th>
<th>From Japan</th>
<th>From ROK</th>
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</thead>
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<tr>
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<td>ROK</td>
</tr>
<tr>
<td>2004</td>
<td>44,777</td>
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<tr>
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<td>57,206</td>
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<td>882</td>
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<td>2006</td>
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<td>2007</td>
<td>117,911</td>
<td>558</td>
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<td>-</td>
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**Source:** United Nations Conference on Trade and Development (UNCTAD)

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### FDI Outward Stocks among CJK Countries

**Million US$**

<table>
<thead>
<tr>
<th>Year</th>
<th>Japan to China</th>
<th>ROK to China</th>
<th>ROK to Japan</th>
<th>China to ROK</th>
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<tbody>
<tr>
<td>2004</td>
<td></td>
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<tr>
<td>2005</td>
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<td>2008</td>
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<td>2009</td>
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<td>2010</td>
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<tr>
<td>2011</td>
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</tr>
<tr>
<td>2012</td>
<td></td>
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</table>
### Doing Business Index of China

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

Source: World Bank

### Doing Business Index of Japan

<table>
<thead>
<tr>
<th>Topics</th>
<th>2014 Rank</th>
<th>2015 Rank</th>
<th>Change in Rank</th>
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</thead>
<tbody>
<tr>
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<td>83</td>
<td>↓ -5</td>
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<tr>
<td>Dealing with Construction Permits</td>
<td>83</td>
<td>83</td>
<td>-</td>
</tr>
<tr>
<td>Getting Electricity</td>
<td>29</td>
<td>28</td>
<td>↑ 1</td>
</tr>
<tr>
<td>Registering Property</td>
<td>70</td>
<td>73</td>
<td>↓ -3</td>
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<tr>
<td>Getting Credit</td>
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<td>↓ -4</td>
</tr>
<tr>
<td>Protecting Minority Investors</td>
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<td>35</td>
<td>-</td>
</tr>
<tr>
<td>Paying Taxes</td>
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<tr>
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<td>20</td>
<td>-</td>
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<tr>
<td>Enforcing Contracts</td>
<td>27</td>
<td>26</td>
<td>↑ 1</td>
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<td>Resolving Insolvency</td>
<td>2</td>
<td>2</td>
<td>-</td>
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</table>

Source: World Bank
## Doing Business Index of ROK

<table>
<thead>
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<th>Topics</th>
<th>2014 Rank</th>
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</thead>
<tbody>
<tr>
<td>Starting a Business</td>
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<td>17</td>
<td>↓ -1</td>
</tr>
<tr>
<td>Dealing with Construction Permits</td>
<td>12</td>
<td>12</td>
<td>-</td>
</tr>
<tr>
<td>Getting Electricity</td>
<td>1</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>Registering Property</td>
<td>78</td>
<td>79</td>
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<tr>
<td>Getting Credit</td>
<td>30</td>
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<td>↓ -6</td>
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<td>Protecting Minority Investors</td>
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<tr>
<td>Enforcing Contracts</td>
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<tr>
<td>Resolving Insolvency</td>
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</table>

**Source**: World Bank

## Doing Business Start-up Indicators

### Cost of Business Start-up Procedure (% of GNI per capita)

<table>
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<th></th>
<th>2005</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
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</thead>
<tbody>
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<td>8.4</td>
<td>4.9</td>
<td>4.5</td>
<td>3.6</td>
<td>2.1</td>
<td>2</td>
</tr>
<tr>
<td>Japan</td>
<td>10.7</td>
<td>7.5</td>
<td>7.5</td>
<td>7.5</td>
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<td>7.5</td>
<td>7.5</td>
<td>7.5</td>
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<tr>
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<td>18.2</td>
<td>17.1</td>
<td>16.9</td>
<td>14.7</td>
<td>14.7</td>
<td>14.6</td>
<td>14.6</td>
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</tbody>
</table>

### Time Required to Start Up Business (Days)

<table>
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<th>2006</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
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</thead>
<tbody>
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<td>14</td>
<td>14</td>
<td>6</td>
<td>6</td>
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</table>

**Source**: Asian Development Bank
6. Investment

FDI Regulatory Restrictiveness Index

<table>
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<tr>
<th>Year</th>
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<th>Japan</th>
<th>ROK</th>
</tr>
</thead>
<tbody>
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<td>0.561</td>
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<td>2006</td>
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<td>0.143</td>
</tr>
<tr>
<td>2010</td>
<td>0.421</td>
<td>0.052</td>
<td>0.143</td>
</tr>
<tr>
<td>2011</td>
<td>0.421</td>
<td>0.052</td>
<td>0.143</td>
</tr>
<tr>
<td>2012</td>
<td>0.418</td>
<td>0.052</td>
<td>0.143</td>
</tr>
<tr>
<td>2013</td>
<td>0.418</td>
<td>0.052</td>
<td>0.135</td>
</tr>
</tbody>
</table>

Source: Organization for Economic Cooperation and Development (OECD)
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)
### FTA of the Three Countries

#### (Negotiation Concluded)

(As of July, 2015)

<table>
<thead>
<tr>
<th>Current Situation</th>
<th>China (11)</th>
<th>Japan (15)</th>
<th>ROK (15)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Partner</strong></td>
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<td><strong>In effect</strong></td>
<td><strong>In effect</strong></td>
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<tr>
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<td>FTA</td>
<td>Jul. 2005</td>
<td>Singapore</td>
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<td>Chile</td>
<td>FTA</td>
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<td>Mexico</td>
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<td>FTA</td>
<td>Jan. 2009</td>
<td>Thailand</td>
</tr>
<tr>
<td>ROK</td>
<td>FTA</td>
<td>Jun. 2015*</td>
<td>Switzerland</td>
</tr>
<tr>
<td>India</td>
<td>EPA</td>
<td>Jun. 2011</td>
<td>Canada</td>
</tr>
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<td>Australia</td>
<td>EPA</td>
<td>Jul. 2014</td>
<td>Viet Nam*</td>
</tr>
<tr>
<td>Mongolia*</td>
<td>EPA</td>
<td>Feb. 2015*</td>
<td>China*</td>
</tr>
</tbody>
</table>

* Signed dates
1 EPA: Economic Partnership Agreement
2 CEPA: Comprehensive Economic Partnership Agreement

**Source**

Ministry of Commerce of China, Ministry of Foreign Affairs of Japan, Ministry of Trade, Industry and Energy of ROK
FTA of the Three Countries
(Under Negotiation)

(As of July, 2015)

<table>
<thead>
<tr>
<th>Current Situation</th>
<th>China (6) *</th>
<th>Japan (11)</th>
<th>ROK (6)</th>
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<tr>
<td><strong>Partner</strong></td>
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<td><strong>Type of Agreement</strong></td>
<td><strong>Negotiation Launch</strong></td>
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<tr>
<td>Norway</td>
<td>Apr. 2007</td>
<td>FTA</td>
<td>GCC**</td>
</tr>
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<td>Negotiations</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>(Services and Investment chapters, substantial conclusion)</td>
</tr>
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<td></td>
<td></td>
<td></td>
<td>Turkey</td>
</tr>
</tbody>
</table>

* Indicate the date of the first negotiation.
** Suspended with Japan since 2004, with Mexico since 2008, with GCC since 2009, and with Indonesia since 2014.

Source: Ministry of Commerce of China, Ministry of Foreign Affairs of Japan, Ministry of Trade, Industry and Energy of ROK
## FTA of the Three Countries
(Under Discussion)

(As of July, 2015)

<table>
<thead>
<tr>
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<td>Type of Agreement</td>
<td>Partner</td>
<td>Type of Agreement</td>
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<td>MERCOSUR</td>
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<td>Columbia</td>
<td>FTA</td>
<td></td>
<td>Israel</td>
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<td>FTA</td>
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<td>Moldova</td>
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<td>Equador</td>
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</table>

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

8-1. Bond Market (LCY Bonds)
8-2. Size and Composition of LCY Bond Markets of CJK
8-3. Bond Market (FCY Bonds)
8-4. Mutual Holdings of Bonds among CJK
8-5. Stock Market Capitalization
8-6. Stock Market Price Growth Rate
8-7. Mutual Holdings of Stocks among CJK
8-8. Correlation of Stock Market Returns among CJK
8-9. Money Market Interest Rate Correlation among CJK
8-10. Money Market Interest Rate Differential among CJK
8-11. Changes in CJK Financial Conditions
### Size of LCY Bond Market in USD

<table>
<thead>
<tr>
<th></th>
<th>China</th>
<th></th>
<th>Japan</th>
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<th>ROK</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Govt.</td>
<td>Corp.</td>
<td>Total</td>
<td>Govt.</td>
<td>Corp.</td>
<td>Total</td>
</tr>
<tr>
<td>2005</td>
<td>835.2</td>
<td>64.5</td>
<td>899.2</td>
<td>6,301.6</td>
<td>743.7</td>
<td>7,045.3</td>
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<tr>
<td>2006</td>
<td>1,078.7</td>
<td>105.6</td>
<td>1,184.2</td>
<td>6,389.4</td>
<td>706.9</td>
<td>7,096.3</td>
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<tr>
<td>2007</td>
<td>1,531.7</td>
<td>156.6</td>
<td>1,688.3</td>
<td>6,874.2</td>
<td>773.1</td>
<td>7,647.3</td>
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<tr>
<td>2008</td>
<td>1,956.7</td>
<td>257.5</td>
<td>2,214.2</td>
<td>8,564.4</td>
<td>963.2</td>
<td>9,527.6</td>
</tr>
<tr>
<td>2009</td>
<td>2,112.7</td>
<td>454.9</td>
<td>2,567.7</td>
<td>8,655.6</td>
<td>964.2</td>
<td>9,619.7</td>
</tr>
<tr>
<td>2010</td>
<td>2,407.8</td>
<td>646.9</td>
<td>3,054.7</td>
<td>10,605.8</td>
<td>1,112.6</td>
<td>11,718.4</td>
</tr>
<tr>
<td>2011</td>
<td>2,540.2</td>
<td>918.8</td>
<td>3,459.0</td>
<td>11,556.1</td>
<td>1,151.9</td>
<td>12,708.0</td>
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<tr>
<td>2012</td>
<td>2,772.7</td>
<td>1,038.7</td>
<td>4,014.4</td>
<td>10,668.2</td>
<td>988.1</td>
<td>11,656.3</td>
</tr>
<tr>
<td>2013</td>
<td>3,072.6</td>
<td>1,651.7</td>
<td>4,724.3</td>
<td>9,203.4</td>
<td>786.6</td>
<td>9,990.0</td>
</tr>
<tr>
<td>2014</td>
<td>3,334.7</td>
<td>1,857.8</td>
<td>5,192.5</td>
<td>8,292.2</td>
<td>679.7</td>
<td>8,971.9</td>
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</tbody>
</table>

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

**Source**: Asian Bonds Online

**Bond Market (LCY Bonds) 2014**

<table>
<thead>
<tr>
<th></th>
<th>China</th>
<th></th>
<th>Japan</th>
<th></th>
<th>ROK</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>36%</td>
<td>64%</td>
<td>8%</td>
<td>92%</td>
<td>41%</td>
<td>59%</td>
</tr>
</tbody>
</table>
## Size and Composition of LCY Bond Markets of CJK

<table>
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<tr>
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<th>China</th>
<th>Japan</th>
<th>ROK</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Total</td>
<td>Government</td>
<td>Corporate</td>
</tr>
<tr>
<td>2Q-2013</td>
<td>Amount</td>
<td>4,445</td>
<td>2,905</td>
</tr>
<tr>
<td></td>
<td>% share</td>
<td>100.0</td>
<td>65.4</td>
</tr>
<tr>
<td></td>
<td>% of GDP</td>
<td>50.6</td>
<td>33.1</td>
</tr>
<tr>
<td>1Q-2014</td>
<td>Amount</td>
<td>4,702</td>
<td>3,056</td>
</tr>
<tr>
<td></td>
<td>% share</td>
<td>100.0</td>
<td>65.0</td>
</tr>
<tr>
<td></td>
<td>% of GDP</td>
<td>50.6</td>
<td>32.9</td>
</tr>
<tr>
<td>2Q-2014</td>
<td>Amount</td>
<td>4,911</td>
<td>3,164</td>
</tr>
<tr>
<td></td>
<td>% share</td>
<td>100.0</td>
<td>64.9</td>
</tr>
<tr>
<td></td>
<td>% of GDP</td>
<td>51.2</td>
<td>33.3</td>
</tr>
<tr>
<td></td>
<td>Growth Rate (LCY-base %)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2Q-2013 (y-o-y)</td>
<td>18.1</td>
<td>8.7</td>
</tr>
<tr>
<td></td>
<td>2Q-2014 (y-o-y)</td>
<td>10.8</td>
<td>10.1</td>
</tr>
<tr>
<td></td>
<td>Growth Rate (US$-base %)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2Q-2013 (y-o-y)</td>
<td>22.3</td>
<td>12.5</td>
</tr>
<tr>
<td></td>
<td>2Q-2014 (y-o-y)</td>
<td>9.6</td>
<td>8.9</td>
</tr>
</tbody>
</table>

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

Notes: 1. For the People’s Republic of China, 2014 corporate bonds outstanding data based on AsianBondsOnline estimates. For Singapore, corporate bonds outstanding data based on AsianBondsOnline estimates.
2. Corporate bonds include issues from financial institutions.
3. Bloomberg LP end-of-period LCY—US$ rates are used.

Source: Asian Development Bank (ADB)
## Bond Market (FCY Bonds)

### FCY Bonds in USD (local sources)

<table>
<thead>
<tr>
<th></th>
<th>China</th>
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<th>Japan</th>
<th></th>
<th>ROK</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Govern</td>
<td>Banks</td>
<td>Financial</td>
<td>Institutions</td>
<td>Other</td>
<td>Corporates</td>
</tr>
<tr>
<td>2005</td>
<td>13.7</td>
<td>5.05</td>
<td>5.84</td>
<td>24.59</td>
<td>24.73</td>
<td>18.17</td>
</tr>
<tr>
<td>2006</td>
<td>14.09</td>
<td>5.26</td>
<td>9.38</td>
<td>28.74</td>
<td>23.68</td>
<td>38.08</td>
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<tr>
<td>2007</td>
<td>14.84</td>
<td>5.11</td>
<td>15.02</td>
<td>34.97</td>
<td>25.63</td>
<td>43.66</td>
</tr>
<tr>
<td>2008</td>
<td>13.44</td>
<td>4.9</td>
<td>19.81</td>
<td>38.15</td>
<td>25.51</td>
<td>44.24</td>
</tr>
<tr>
<td>2009</td>
<td>12.08</td>
<td>6.03</td>
<td>21.65</td>
<td>39.76</td>
<td>28.21</td>
<td>49.92</td>
</tr>
<tr>
<td>2010</td>
<td>12.41</td>
<td>15.14</td>
<td>36.65</td>
<td>64.2</td>
<td>31.44</td>
<td>48.22</td>
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<tr>
<td>2011</td>
<td>14.44</td>
<td>25.92</td>
<td>51.69</td>
<td>92.05</td>
<td>32.78</td>
<td>55.78</td>
</tr>
<tr>
<td>2012</td>
<td>20.72</td>
<td>45.99</td>
<td>81.66</td>
<td>148.37</td>
<td>18.82</td>
<td>51.27</td>
</tr>
<tr>
<td>2014</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>41.81</td>
<td>93.82</td>
</tr>
</tbody>
</table>

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

**Source** Asian Bonds Online

### 2013 China Bond Market (FCY Bonds)

- Government: 9%
- Banks and Financial Institutions: 31%
- Other Corporates: 60%
- Total: 224.53 Billion US$

### 2014 Japan Bond Market (FCY Bonds)

- Government: 14%
- Banks and Financial Institutions: 27%
- Other Corporates: 59%
- Total: 157.5 Billion US$

### 2014 ROK Bond Market (FCY Bonds)

- Government: 19%
- Banks and Financial Institutions: 42%
- Other Corporates: 39%
- Total: 159.32 Billion US$
## Mutual Holdings of Bonds among CJK

### Long-term Bonds

<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Japan</td>
<td>ROK</td>
<td>5,233.9</td>
<td>5,321.3</td>
<td>5,752.2</td>
<td>8,117.3</td>
<td>11,129.5</td>
<td>8,440.1</td>
<td>11,649.5</td>
<td>17,056.1</td>
<td>18,755.9</td>
<td>20,194.9</td>
</tr>
<tr>
<td></td>
<td>China</td>
<td>528.9</td>
<td>424.7</td>
<td>414.4</td>
<td>458</td>
<td>495.9</td>
<td>521.4</td>
<td>494.1</td>
<td>515.6</td>
<td>574.2</td>
<td>1156.7</td>
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<tr>
<td>ROK</td>
<td>Japan</td>
<td>494.6</td>
<td>583.5</td>
<td>1036.9</td>
<td>540.4</td>
<td>220.5</td>
<td>686</td>
<td>1219.6</td>
<td>744.7</td>
<td>384.8</td>
<td>1155.7</td>
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<tr>
<td></td>
<td>China</td>
<td>68.6</td>
<td>86.4</td>
<td>198.3</td>
<td>201.8</td>
<td>145.8</td>
<td>141</td>
<td>145.9</td>
<td>218.1</td>
<td>272.1</td>
<td>377.9</td>
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</table>

### Short-term Bonds

<table>
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</thead>
<tbody>
<tr>
<td>Japan</td>
<td>ROK</td>
<td>39.4</td>
<td>70</td>
<td>3</td>
<td>27.2</td>
<td>132.2</td>
<td>43.4</td>
<td>550.3</td>
<td>538.8</td>
<td>271.7</td>
<td>218.5</td>
</tr>
<tr>
<td></td>
<td>China</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>21.7</td>
<td>25.4</td>
<td>210.7</td>
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</tr>
<tr>
<td>ROK</td>
<td>Japan</td>
<td>–</td>
<td>1.3</td>
<td>15.5</td>
<td>13</td>
<td>–</td>
<td>–</td>
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</tr>
<tr>
<td></td>
<td>China</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>7.6</td>
<td>6.6</td>
<td>20.8</td>
<td>13.8</td>
<td>20.1</td>
<td>20.2</td>
<td></td>
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</tbody>
</table>

**Source**: Asia Regional Integration Center Database; IMF CPIS Database
### Stock Market Capitalization

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

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

**Source:** Asian Development Bank
### Growth Rates of Stock Market Price Index

<table>
<thead>
<tr>
<th>Year</th>
<th>China</th>
<th>Japan</th>
<th>ROK</th>
</tr>
</thead>
<tbody>
<tr>
<td>2004</td>
<td>0.0</td>
<td>21.8</td>
<td>22.6</td>
</tr>
<tr>
<td>2005</td>
<td>-22.1</td>
<td>13.5</td>
<td>28.5</td>
</tr>
<tr>
<td>2006</td>
<td>41.4</td>
<td>28.2</td>
<td>26.3</td>
</tr>
<tr>
<td>2007</td>
<td>161.1</td>
<td>2.3</td>
<td>26.7</td>
</tr>
<tr>
<td>2008</td>
<td>-27.7</td>
<td>-28.6</td>
<td>-10.6</td>
</tr>
<tr>
<td>2009</td>
<td>-10.2</td>
<td>-26.9</td>
<td>-7.0</td>
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<tr>
<td>2010</td>
<td>3.4</td>
<td>2.0</td>
<td>23.6</td>
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<tr>
<td>2011</td>
<td>-5.7</td>
<td>-7.2</td>
<td>12.9</td>
</tr>
<tr>
<td>2012</td>
<td>-16.8</td>
<td>-6.5</td>
<td>-2.6</td>
</tr>
<tr>
<td>2013</td>
<td>-1.1</td>
<td>46.0</td>
<td>1.5</td>
</tr>
</tbody>
</table>

* China: CSI300, Japan: NIKKEI225, ROK: KOSPI
** 0.0: Magnitude is less than half of unit employed.

**Source**
Asian Development Bank

---

### Stock Market (Growth Rate)

- China
- Japan
- ROK

![Stock Market Growth Rate Chart](chart.png)
# Mutual Holdings of Stocks among CJK

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Japan</td>
<td>Japan</td>
<td>943.1</td>
<td>2,064.9</td>
<td>3,358.2</td>
<td>5,618.4</td>
<td>6,798.9</td>
<td>4,507.9</td>
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<td>5,534.0</td>
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<td>9,823.8</td>
<td>8,998.1</td>
</tr>
<tr>
<td>Japan</td>
<td>ROK</td>
<td>525.1</td>
<td>877.7</td>
<td>1,808.4</td>
<td>4,812.7</td>
<td>2,356.8</td>
<td>2,547.6</td>
<td>4,459.3</td>
<td>4,121.9</td>
<td>5,055.6</td>
<td>6,719.2</td>
</tr>
<tr>
<td>China</td>
<td>ROK</td>
<td>53.3</td>
<td>15.0</td>
<td>2,887.7</td>
<td>23,066.1</td>
<td>8,770.0</td>
<td>12,428.4</td>
<td>10,638.7</td>
<td>6,661.8</td>
<td>6,358.4</td>
<td>7,424.9</td>
</tr>
</tbody>
</table>

*Source: Asia Regional Integration Center Database; IMF CPIS Database*
### Correlation of Stock Market Returns among CJK

<table>
<thead>
<tr>
<th>Year</th>
<th>China-Japan</th>
<th>China-ROK</th>
<th>Japan-ROK</th>
</tr>
</thead>
<tbody>
<tr>
<td>2003</td>
<td>-0.14</td>
<td>-0.14</td>
<td>0.96</td>
</tr>
<tr>
<td>2004</td>
<td>0.61</td>
<td>0.85</td>
<td>0.81</td>
</tr>
<tr>
<td>2005</td>
<td>0.70</td>
<td>0.62</td>
<td>0.73</td>
</tr>
<tr>
<td>2006</td>
<td>-0.77</td>
<td>-0.76</td>
<td>0.92</td>
</tr>
<tr>
<td>2007</td>
<td>-0.15</td>
<td>0.53</td>
<td>0.15</td>
</tr>
<tr>
<td>2008</td>
<td>0.59</td>
<td>0.87</td>
<td>0.82</td>
</tr>
<tr>
<td>2009</td>
<td>0.92</td>
<td>0.95</td>
<td>0.98</td>
</tr>
<tr>
<td>2010</td>
<td>0.83</td>
<td>0.86</td>
<td>0.92</td>
</tr>
<tr>
<td>2011</td>
<td>0.57</td>
<td>0.69</td>
<td>0.56</td>
</tr>
<tr>
<td>2012</td>
<td>0.53</td>
<td>0.49</td>
<td>0.70</td>
</tr>
</tbody>
</table>

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

Source: Asia Regional Integration Center Database

---

### Correlation of Stock Market Returns among CJK, 2002-2012

![Graph showing correlation between 2002 and 2012](image-url)
### Money Market Interest Rate Correlation among CJK

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>China-Japan</td>
<td>0.22</td>
<td>0.21</td>
<td>0.20</td>
<td>0.78</td>
<td>0.52</td>
<td>0.01</td>
<td>0.62</td>
<td>0.79</td>
<td>0.46</td>
<td>0.65</td>
</tr>
<tr>
<td>China-ROK</td>
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<td>0.57</td>
<td>-0.45</td>
<td>0.76</td>
<td>0.46</td>
<td>0.58</td>
<td>0.49</td>
<td>0.08</td>
<td>0.53</td>
<td>0.78</td>
</tr>
<tr>
<td>Japan-ROK</td>
<td>N/A</td>
<td>0.01</td>
<td>0.08</td>
<td>0.97</td>
<td>0.86</td>
<td>0.32</td>
<td>0.16</td>
<td>0.33</td>
<td>-0.54</td>
<td>0.91</td>
</tr>
</tbody>
</table>

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

Source: Asia Regional Integration Center Database

### Money Market Interest Rate Differential among CJK

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>China-Japan</td>
<td>2.92</td>
<td>3.34</td>
<td>2.67</td>
<td>2.37</td>
<td>2.47</td>
<td>2.49</td>
<td>0.91</td>
<td>2.04</td>
<td>4.88</td>
<td>3.98</td>
</tr>
<tr>
<td>China-ROK</td>
<td>-2.60</td>
<td>-2.32</td>
<td>-2.17</td>
<td>-2.55</td>
<td>-2.49</td>
<td>-3.02</td>
<td>-3.17</td>
<td>-0.25</td>
<td>1.79</td>
<td>1.04</td>
</tr>
<tr>
<td>Japan-ROK</td>
<td>5.52</td>
<td>5.66</td>
<td>4.84</td>
<td>4.91</td>
<td>4.96</td>
<td>5.51</td>
<td>4.08</td>
<td>2.29</td>
<td>3.09</td>
<td>2.93</td>
</tr>
</tbody>
</table>

Notes: Money market rate differential is a pair-wise measure of convergence. It is the difference between the rates in two money markets. A lower differential indicates a higher degree of convergence.

Source: Asia Regional Integration Center Database
## Changes in CJK Financial Conditions

<table>
<thead>
<tr>
<th></th>
<th>2-Year Government Bond (bps)</th>
<th>10-Year Government Bond (bps)</th>
<th>5-Year Credit Default Swap (bps)</th>
<th>Equity Index (%)</th>
<th>FX Rate (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>China</td>
<td>31</td>
<td>-25</td>
<td>-18</td>
<td>8.3</td>
<td>1</td>
</tr>
<tr>
<td>Japan</td>
<td>-1</td>
<td>-12</td>
<td>-14</td>
<td>5.6</td>
<td>-0.4</td>
</tr>
<tr>
<td>ROK</td>
<td>-35</td>
<td>-50</td>
<td>-9</td>
<td>3.8</td>
<td>4.2</td>
</tr>
</tbody>
</table>

bps = basis points, FX = foreign exchange
Notes: 1. Data reflect changes between 1 April 2014 and 31 August 2014.
2. A positive (negative) value for the FX rate indicates the appreciation (depreciation) of the local currency against the US dollar.
Sources: Bloomberg LP and Institute of International Finance.
9-1. Land
9-2. Water
9-3-1. Total Production of Energy
9-3-2. Total Primary Energy
9-4. Coal
9-5. Petroleum
9-6. Dry Natural Gas
9-7-1. Electricity
9-7-2. Electricity Production
9-8. Renewables
9-9. Nuclear Power
9-10. CO2 Emission from Consumption of Energy
9-11. CO2 Emission from Energy Consumption Ranking
## Land

### 9-1 Land

<table>
<thead>
<tr>
<th>Year</th>
<th>Forest Area</th>
<th>Arable Land</th>
<th>Agricultural Land</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>World</td>
<td>China</td>
<td>Japan</td>
</tr>
<tr>
<td>1990</td>
<td>32.06%</td>
<td>16.74%</td>
<td>68.43%</td>
</tr>
<tr>
<td>2000</td>
<td>31.42%</td>
<td>18.85%</td>
<td>68.25%</td>
</tr>
<tr>
<td>2010</td>
<td>31.03%</td>
<td>22.03%</td>
<td>68.52%</td>
</tr>
<tr>
<td>2012</td>
<td>30.97%</td>
<td>22.62%</td>
<td>68.57%</td>
</tr>
</tbody>
</table>

### Source
World Bank

#### Land in 2012

<table>
<thead>
<tr>
<th>Country</th>
<th>Forest Area</th>
<th>Arable Land</th>
<th>Agricultural Land</th>
</tr>
</thead>
<tbody>
<tr>
<td>China</td>
<td>22.62%</td>
<td>54.81%</td>
<td></td>
</tr>
<tr>
<td>Japan</td>
<td>12.48%</td>
<td>68.57%</td>
<td></td>
</tr>
<tr>
<td>ROK</td>
<td>18.37%</td>
<td>63.78%</td>
<td></td>
</tr>
</tbody>
</table>
## Water

<table>
<thead>
<tr>
<th>Year</th>
<th>World</th>
<th>China</th>
<th>Japan</th>
<th>ROK</th>
<th>World</th>
<th>China</th>
<th>Japan</th>
<th>ROK</th>
</tr>
</thead>
<tbody>
<tr>
<td>1992</td>
<td>42,749.00</td>
<td>2,813</td>
<td>430</td>
<td>64.85</td>
<td>8,049.51</td>
<td>2,414.65</td>
<td>3,761.35</td>
<td>1,482.36</td>
</tr>
<tr>
<td>1997</td>
<td>42,885.55</td>
<td>2,813</td>
<td>430</td>
<td>64.85</td>
<td>7,408.55</td>
<td>2,286.85</td>
<td>3,411.16</td>
<td>1,411.21</td>
</tr>
<tr>
<td>2002</td>
<td>43,498.55</td>
<td>2,813</td>
<td>430</td>
<td>64.85</td>
<td>7,039.74</td>
<td>2,196.97</td>
<td>3,374.00</td>
<td>1,361.76</td>
</tr>
<tr>
<td>2007</td>
<td>43,503.96</td>
<td>2,813</td>
<td>430</td>
<td>64.85</td>
<td>6,623.36</td>
<td>2,134.48</td>
<td>3,359.35</td>
<td>1,334.43</td>
</tr>
<tr>
<td>2013</td>
<td>42,920.96</td>
<td>2,813</td>
<td>430</td>
<td>64.85</td>
<td>6,055.06</td>
<td>2,072.37</td>
<td>3,376.82</td>
<td>1,291.33</td>
</tr>
</tbody>
</table>

**Renewable Freshwater (World)**

<table>
<thead>
<tr>
<th>Year</th>
<th>World</th>
<th>China</th>
<th>Japan</th>
<th>ROK</th>
</tr>
</thead>
<tbody>
<tr>
<td>1992</td>
<td>500.0 (17.8)</td>
<td>91.4 (21.3)</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>1997</td>
<td>525.4 (18.7)</td>
<td>89.07 (20.7)</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>2002</td>
<td>525.4 (18.7)</td>
<td>90.04 (20.9)</td>
<td>25.47 (39.3)</td>
<td>n/a</td>
</tr>
<tr>
<td>2007</td>
<td>554.1 (19.7)</td>
<td>90.04 (20.9)</td>
<td>25.47 (39.3)</td>
<td>n/a</td>
</tr>
<tr>
<td>2013</td>
<td>554.1 (19.7)</td>
<td>90.04 (20.9)</td>
<td>25.47 (39.3)</td>
<td>n/a</td>
</tr>
</tbody>
</table>

**Source**: World Bank

---

### Water

**Unit: Billion Cubic Meters/Cubic Meters**

- **China**: 3,761.35
- **Japan**: 3,411.16
- **ROK**: 3,374
- **World**: 3,376.35

**Graph**

- Renewable Freshwater (China)
- Renewable Freshwater (Japan)
- Renewable Freshwater (ROK)
- Renewable Freshwater per capita

---

[9-2 Water]
### Total Production of Energy

Unit: Million Tons of Oil Equivalent (Mtoe)

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

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

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

### CO2 Emissions from Energy Consumption

Unit: Million Tons of CO2

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

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

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

## Total Primary Energy Production & Consumption in 2012

<table>
<thead>
<tr>
<th>Year</th>
<th>World Production</th>
<th>China Production</th>
<th>Japan Production</th>
<th>ROK Production</th>
<th>World Consumption</th>
<th>China Consumption</th>
<th>Japan Consumption</th>
<th>ROK Consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009</td>
<td>480.930</td>
<td>77.278</td>
<td>3.955</td>
<td>1.523</td>
<td>480.005</td>
<td>85.989</td>
<td>20.602</td>
<td>9.979</td>
</tr>
<tr>
<td>2010</td>
<td>505.368</td>
<td>84.229</td>
<td>4.204</td>
<td>1.540</td>
<td>508.120</td>
<td>94.918</td>
<td>21.793</td>
<td>10.824</td>
</tr>
<tr>
<td>2011</td>
<td>518.546</td>
<td>90.567</td>
<td>2.963</td>
<td>1.612</td>
<td>520.272</td>
<td>103.651</td>
<td>20.915</td>
<td>11.310</td>
</tr>
<tr>
<td>2012</td>
<td>537.266</td>
<td>101.781</td>
<td>1.568</td>
<td>1.558</td>
<td>524.076</td>
<td>105.882</td>
<td>20.306</td>
<td>11.520</td>
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</table>

**Source**: U.S. Energy Information Administration (EIA)
### Coal

**Unit: Thousand Short Tons**

#### Production¹

<table>
<thead>
<tr>
<th>Year</th>
<th>World</th>
<th>China</th>
<th>Japan</th>
<th>ROK</th>
<th>World</th>
<th>China</th>
<th>Japan</th>
<th>ROK</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>7,470,959</td>
<td>3,099,061</td>
<td>0</td>
<td>3,057</td>
<td>7,335,637</td>
<td>3,017,004</td>
<td>203,803</td>
<td>110,522</td>
</tr>
<tr>
<td>2009</td>
<td>7,601,609</td>
<td>3,301,803</td>
<td>0</td>
<td>2,777</td>
<td>7,415,826</td>
<td>3,320,623</td>
<td>181,497</td>
<td>114,150</td>
</tr>
<tr>
<td>2010</td>
<td>7,999,455</td>
<td>3,560,635</td>
<td>0</td>
<td>2,297</td>
<td>7,885,054</td>
<td>3,605,856</td>
<td>206,125</td>
<td>127,414</td>
</tr>
<tr>
<td>2011</td>
<td>8,443,803</td>
<td>3,878,012</td>
<td>0</td>
<td>2,297</td>
<td>8,284,548</td>
<td>3,954,134</td>
<td>192,852</td>
<td>140,087</td>
</tr>
<tr>
<td>2012</td>
<td>8,687,297</td>
<td>4,017,920</td>
<td>0</td>
<td>2,306</td>
<td>8,186,103</td>
<td>3,887,264</td>
<td>201,932</td>
<td>137,599</td>
</tr>
</tbody>
</table>

¹ Total Primary Coal Production

#### Import

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

#### Export

<table>
<thead>
<tr>
<th>Year</th>
<th>World</th>
<th>China</th>
<th>Japan</th>
<th>ROK</th>
<th>World</th>
<th>China</th>
<th>Japan</th>
<th>ROK</th>
</tr>
</thead>
<tbody>
<tr>
<td>2007</td>
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<td>56,236</td>
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#### CO2 Emission from Coal Consumption (Thousand Metric Tons)

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**Source**

U.S. Energy Information Administration (EIA)
### Petroleum

**Total Oil Supply**

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**Total Petroleum Consumption**

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*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

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### Crude Oil Exports

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### CO2 Emission from Petroleum Consumption (Thousand Metric Tons)

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**Source**

U.S. Energy Information Administration (EIA)
### Coal Consumption

Unit: Thousand Short Tons

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### Total Petroleum Consumption

Unit: Thousand Barrels per Day

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## Dry Natural Gas

**Unit: Billion Cubic Feet**

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### Export

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## CO2 Emission from Natural Gas Consumption (Thousand Metric Tons)

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*Dry natural gas does not contain any hydrocarbon liquids.*

**Source**

U.S. Energy Information Administration (EIA)
## Electricity

Unit: Billion KWh

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Source: U.S. Energy Information Administration (EIA)
# Electricity Production

Unit: Billion KWh

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<td>263.053</td>
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<td>0.917</td>
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<td>95.978</td>
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<td>384.217</td>
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<td>33.227</td>
<td>1.174</td>
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*Dry natural gas does not contain any hydrocarbon liquids.*

Source U.S. Energy Information Administration (EIA)
### 9. Resources and Environment

#### 9-8 Renewables

**Unit: Billion Kilowatthours**

<table>
<thead>
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<th>Japan</th>
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<th>Japan</th>
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<td>7.536</td>
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**Unit: Thousand Barrels Per Day**

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<td>1.2</td>
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**Source**

U.S. Energy Information Administration (EIA)

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### Renewables in 2012

**Total Renewable Electricity Generation**

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<th>Japan</th>
<th>ROK</th>
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<tr>
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<td>2.5%</td>
<td>0.1%</td>
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**Total Renewable Electricity Consumption**

<table>
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<th>Japan</th>
<th>ROK</th>
</tr>
</thead>
<tbody>
<tr>
<td>World</td>
<td>21%</td>
<td>2.5%</td>
<td>0.1%</td>
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**Total Biofuels Production**

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</thead>
<tbody>
<tr>
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<td>3.1%</td>
<td>0.1%</td>
<td>0.3%</td>
</tr>
</tbody>
</table>

**Total Biofuels Consumption**

<table>
<thead>
<tr>
<th>Region</th>
<th>China</th>
<th>Japan</th>
<th>ROK</th>
</tr>
</thead>
<tbody>
<tr>
<td>World</td>
<td>3.2%</td>
<td>0.1%</td>
<td>0.3%</td>
</tr>
</tbody>
</table>
### Nuclear Power (2014)

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

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

**Source** International Atomic Energy Agency (IAEA)

### CO2 Emission from Consumption of Energy

**Total CO2 Emission**  
Unit: Million Metric Tons

<table>
<thead>
<tr>
<th></th>
<th>World</th>
<th>China</th>
<th>Japan</th>
<th>ROK</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>29,644.60</td>
<td>6,166.57</td>
<td>1,216.25</td>
<td>521.770</td>
</tr>
<tr>
<td>2009</td>
<td>29,435.62</td>
<td>6,816.10</td>
<td>1,104.914</td>
<td>524.439</td>
</tr>
<tr>
<td>2010</td>
<td>31,154.84</td>
<td>7,388.50</td>
<td>1,177.290</td>
<td>584.018</td>
</tr>
<tr>
<td>2011</td>
<td>32,154.99</td>
<td>8,126.69</td>
<td>1,200.270</td>
<td>650.454</td>
</tr>
<tr>
<td>2012</td>
<td>32,310.29</td>
<td>8,106.43</td>
<td>1,259.060</td>
<td>657.093</td>
</tr>
</tbody>
</table>

**Per Capita CO2 Emission**  
Unit: Metric Tons per Person

<table>
<thead>
<tr>
<th></th>
<th>World</th>
<th>China</th>
<th>Japan</th>
<th>ROK</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009</td>
<td>4.336</td>
<td>5.150</td>
<td>8.652</td>
<td>10.811</td>
</tr>
<tr>
<td>2010</td>
<td>4.538</td>
<td>5.560</td>
<td>9.230</td>
<td>12.008</td>
</tr>
</tbody>
</table>

**Source** U.S. Energy Information Administration (EIA)
## CO2 Emission from Energy Consumption Ranking (2012)

Unit: Million Metric Tons

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>China</td>
<td>8,106.43</td>
</tr>
<tr>
<td>2</td>
<td>USA</td>
<td>5,270.422</td>
</tr>
<tr>
<td>3</td>
<td>India</td>
<td>1,830.938</td>
</tr>
<tr>
<td>4</td>
<td>Russia</td>
<td>1,781.72</td>
</tr>
<tr>
<td>5</td>
<td>Japan</td>
<td>1,259.058</td>
</tr>
<tr>
<td>6</td>
<td>Germany</td>
<td>788.321</td>
</tr>
<tr>
<td>7</td>
<td>ROK</td>
<td>657.093</td>
</tr>
<tr>
<td>8</td>
<td>Iran</td>
<td>603.586</td>
</tr>
<tr>
<td>9</td>
<td>Saudi Arabia</td>
<td>582.67</td>
</tr>
<tr>
<td>10</td>
<td>Canada</td>
<td>550.829</td>
</tr>
</tbody>
</table>

Source: U.S. Energy Information Administration (EIA)

### CO2 Emission (2012)

#### Total CO2 Emission

- **World (100%)**: 32,310.287
  - China: 25%
  - Japan: 3.8%
  - ROK: 2.0%
10-1. Air Transport: Freight and Passengers Carried
10-2. Container Port Traffic
10-3. Road and Rail
10-4. Vehicle Ownership Rate
### Air Transport: Freight

**Unit:** Million Ton-km

<table>
<thead>
<tr>
<th></th>
<th>China</th>
<th>Japan</th>
<th>ROK</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>11,386</td>
<td>8,173</td>
<td>8,727</td>
</tr>
<tr>
<td>2009</td>
<td>11,976</td>
<td>10,486</td>
<td>15,163</td>
</tr>
<tr>
<td>2010</td>
<td>17,194</td>
<td>7,699</td>
<td>12,943</td>
</tr>
<tr>
<td>2011</td>
<td>16,765</td>
<td>6,546</td>
<td>12,382</td>
</tr>
<tr>
<td>2012</td>
<td>15,569</td>
<td>7,046</td>
<td>12,291</td>
</tr>
<tr>
<td>2013</td>
<td>16,054</td>
<td>7,716</td>
<td>11,350</td>
</tr>
<tr>
<td>2014</td>
<td>17,823</td>
<td>8,662</td>
<td>11,047</td>
</tr>
</tbody>
</table>

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

### Air Transport: Passengers Carried

**Unit:** Persons

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

**Source:** World Bank
Air Transport: Freight

Million Ton-km

2014
- China: 17,823
- Japan: 11,047
- ROK: 8,662

2012
- China: 15,569
- Japan: 12,291
- ROK: 7,046

2010
- China: 17,194
- Japan: 12,943
- ROK: 8,173

2008
- China: 11,386
- Japan: 8,727
- ROK: 7,699

Air Transport: Passengers Carried

Million persons

2014
- China: 391
- Japan: 111
- ROK: 59

2012
- China: 318
- Japan: 99
- ROK: 40

2010
- China: 266
- Japan: 110
- ROK: 37

2008
- China: 191
- Japan: 97
- ROK: 36
## 10-2 Container Port Traffic

Unit: TEU (20 Foot Equivalent Units)

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

* Port container traffic measures the flow of containers from land to sea transport modes and vice versa.
** TEU is a unit of cargo capacity based on the volume of a 20-foot-long (6.1m) intermodal container.

Source: World Bank

### Container Port Traffic

![Graph of Container Port Traffic](image)

* TEU (20 Foot Equivalent Units)
### Road and Rail

#### Road

<table>
<thead>
<tr>
<th>Year</th>
<th>Network (Km)</th>
<th>Road Density (Km of Road Per 100sq. km of Land Area)</th>
<th>Paved Road (% of Total Road)</th>
<th>Goods Transported (Million Ton-km)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>China</td>
<td>Japan</td>
<td>ROK</td>
<td>China</td>
</tr>
<tr>
<td>2007</td>
<td>3,583,715</td>
<td>327,752</td>
<td>103,019</td>
<td>37</td>
</tr>
<tr>
<td>2008</td>
<td>3,730,164</td>
<td>331,071</td>
<td>104,236</td>
<td>39</td>
</tr>
<tr>
<td>2009</td>
<td>3,860,823</td>
<td>333,574</td>
<td>104,983</td>
<td>40</td>
</tr>
<tr>
<td>2010</td>
<td>4,008,229</td>
<td>336,578</td>
<td>105,565</td>
<td>42</td>
</tr>
<tr>
<td>2011</td>
<td>4,106,387</td>
<td>339,038</td>
<td>105,931</td>
<td>43</td>
</tr>
</tbody>
</table>

* 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.

### Rail

<table>
<thead>
<tr>
<th>Year</th>
<th>Rail Lines (Km)</th>
<th>Passengers Carried (Million Passenger-km)</th>
<th>Goods Transported (Million Ton-km)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>China</td>
<td>Japan</td>
<td>ROK</td>
</tr>
<tr>
<td>2007</td>
<td>63,637</td>
<td>20,050</td>
<td>3,399</td>
</tr>
<tr>
<td>2008</td>
<td>60,809</td>
<td>20,048</td>
<td>3,381</td>
</tr>
<tr>
<td>2009</td>
<td>65,491</td>
<td>20,036</td>
<td>3,378</td>
</tr>
<tr>
<td>2010</td>
<td>66,239</td>
<td>20,035</td>
<td>3,379</td>
</tr>
<tr>
<td>2011</td>
<td>66,050</td>
<td>20,140</td>
<td>3,637</td>
</tr>
<tr>
<td>2012</td>
<td>66,298</td>
<td>20,140</td>
<td>3,650</td>
</tr>
</tbody>
</table>

* 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
### Vehicle Ownership Rate

**Unit: Per Thousand Persons**

<table>
<thead>
<tr>
<th></th>
<th>Motor Vehicles</th>
<th>Passenger Cars</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>China</td>
<td>Japan</td>
</tr>
<tr>
<td>2006</td>
<td>28</td>
<td>594</td>
</tr>
<tr>
<td>2007</td>
<td>32</td>
<td>592</td>
</tr>
<tr>
<td>2008</td>
<td>37</td>
<td>592</td>
</tr>
<tr>
<td>2009</td>
<td>47</td>
<td>593</td>
</tr>
<tr>
<td>2010</td>
<td>58</td>
<td>590</td>
</tr>
<tr>
<td>2011</td>
<td>69</td>
<td>588</td>
</tr>
</tbody>
</table>

* Motor vehicles include cars, buses and freight vehicles, but do not include two-wheelers.

**Population refers to the mid-year population in the year for which data are available.**

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

### Vehicles

**Unit: Per Km of Load**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th>China</th>
<th>Japan</th>
<th>ROK</th>
</tr>
</thead>
<tbody>
<tr>
<td>2006</td>
<td>2007</td>
<td>10</td>
<td>233</td>
<td>156</td>
</tr>
<tr>
<td>2008</td>
<td>2009</td>
<td>12</td>
<td>231</td>
<td>159</td>
</tr>
<tr>
<td>2010</td>
<td>2011</td>
<td>13</td>
<td>227</td>
<td>160</td>
</tr>
<tr>
<td>2009</td>
<td>2010</td>
<td>16</td>
<td>224</td>
<td>164</td>
</tr>
<tr>
<td>2011</td>
<td>2012</td>
<td>19</td>
<td>223</td>
<td>170</td>
</tr>
</tbody>
</table>

* 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
Movement of People

11-1. Tourist Arrivals
11-2. Resident Foreign Nationals among the Three Countries
11-3. Foreign Students among the Three Countries
11-4. International Marriage
### Tourist Arrivals

<table>
<thead>
<tr>
<th>Year</th>
<th>To China</th>
<th>To Japan</th>
<th>To ROK</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>World</td>
<td>Japan</td>
<td>ROK</td>
</tr>
<tr>
<td>2008</td>
<td>24,325</td>
<td>3,446</td>
<td>3,960</td>
</tr>
<tr>
<td>2009</td>
<td>21,938</td>
<td>3,317</td>
<td>3,198</td>
</tr>
<tr>
<td>2010</td>
<td>26,127</td>
<td>3,731</td>
<td>4,076</td>
</tr>
<tr>
<td>2011</td>
<td>27,112</td>
<td>3,658</td>
<td>4,185</td>
</tr>
<tr>
<td>2012</td>
<td>27,192</td>
<td>3,658</td>
<td>4,070</td>
</tr>
<tr>
<td>2013</td>
<td>26,290</td>
<td>2,878</td>
<td>3,969</td>
</tr>
<tr>
<td>2014</td>
<td>26,361</td>
<td>2,718</td>
<td>4,182</td>
</tr>
</tbody>
</table>

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

---

Tourist Arrivals in 2014 (thousand persons)

- China: 6,127
- Japan: 4,182
- Korea: 2,409
- 4,182
- 2,718
- 2,755
- 2,250
- 2,280
- 6,127
### Resident Foreign Nationals among the Three Countries

<table>
<thead>
<tr>
<th>Year</th>
<th>China</th>
<th>Japan</th>
<th>ROK</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Japan</strong></td>
<td><strong>ROK</strong></td>
<td><strong>China</strong></td>
</tr>
<tr>
<td>2008</td>
<td>-</td>
<td>-</td>
<td>655,377</td>
</tr>
<tr>
<td>2009</td>
<td>-</td>
<td>-</td>
<td>680,518</td>
</tr>
<tr>
<td>2010</td>
<td>66,159</td>
<td>120,750</td>
<td>687,156</td>
</tr>
<tr>
<td>2011</td>
<td>-</td>
<td>-</td>
<td>674,879</td>
</tr>
<tr>
<td>2012</td>
<td>-</td>
<td>-</td>
<td>652,595</td>
</tr>
<tr>
<td>2013</td>
<td>-</td>
<td>-</td>
<td>649,078</td>
</tr>
</tbody>
</table>

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

**Source**
### Foreign Students among the Three Countries

#### Number of Foreign Students

<table>
<thead>
<tr>
<th>Year</th>
<th>In China</th>
<th>In Japan</th>
<th>In ROK</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Japanese</td>
<td>Korean</td>
<td>Chinese</td>
</tr>
<tr>
<td>2008</td>
<td>16,733</td>
<td>66,806</td>
<td>72,766</td>
</tr>
<tr>
<td>2009</td>
<td>-</td>
<td>-</td>
<td>79,082</td>
</tr>
<tr>
<td>2010</td>
<td>16,808</td>
<td>64,957</td>
<td>86,173</td>
</tr>
<tr>
<td>2011</td>
<td>17,961</td>
<td>62,442</td>
<td>87,533</td>
</tr>
<tr>
<td>2012</td>
<td>21,126</td>
<td>63,488</td>
<td>86,324</td>
</tr>
<tr>
<td>2013</td>
<td>-</td>
<td>-</td>
<td>81,884</td>
</tr>
<tr>
<td>2014</td>
<td>15,057</td>
<td>62,923</td>
<td>94,399</td>
</tr>
</tbody>
</table>

**Unit:** Persons

#### % of Total Foreign Students

<table>
<thead>
<tr>
<th>Year</th>
<th>In China</th>
<th>In Japan</th>
<th>In ROK</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Japanese</td>
<td>Korean</td>
<td>Chinese</td>
</tr>
<tr>
<td>2008</td>
<td>7.5</td>
<td>29.9</td>
<td>58.8</td>
</tr>
<tr>
<td>2009</td>
<td>-</td>
<td>-</td>
<td>59.6</td>
</tr>
<tr>
<td>2010</td>
<td>6.3</td>
<td>23.7</td>
<td>60.8</td>
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**Unit:** %

**Source:** Ministry of Education of China, Japan Student Services Organization, Statistics Korea (KOSIS)
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Source: Statistics Bureau of Japan, National Institute of Population and Social Security Research

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* The data of China is not available.
1. ROK includes Korean with permanent residence in Japan.

Source: Statistics Korea
Others

12-1. Fortune Global 500 Enterprises
12-2. Human Development Index (HDI)
12-3. UN Peacekeeping Force
12-4. Competitiveness Index
12-5. Number of Patent Applications
12-6. Broadband Internet Subscribers
12-7. Telecommunications Penetration Rates
### Fortune Global 500 Enterprises (2014)

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

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Human Development Index (HDI)

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

Source: United Nations Development Programme (UNDP)
### 12-3 UN Peacekeeping Force

**Unit:** Persons (Ranking)

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**Source** United Nations Peacekeeping
## Competitiveness Index

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* 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
### Number of Patent Applications

**Unit:** Number

#### Number of PCT Applications by Country

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#### Share of Country in Total PCT Filing

**Unit:** %

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**Source**
Number of PCT Applications

Share in Total PCT Filing
12.6 Broadband Internet Subscribers

Unit: Per Hundred Persons

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<td>37.25</td>
</tr>
<tr>
<td>2013</td>
<td>13.63</td>
<td>28.90</td>
<td>38.04</td>
</tr>
</tbody>
</table>

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

Source: World Bank

---

### Broadband Internet Subscribers

**per 100 persons**

- **China**
- **Japan**
- **ROK**

<table>
<thead>
<tr>
<th>Year</th>
<th>China</th>
<th>Japan</th>
<th>ROK</th>
</tr>
</thead>
<tbody>
<tr>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
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<td></td>
</tr>
<tr>
<td>2013</td>
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</tbody>
</table>

[Bar chart showing broadband Internet subscribers for China, Japan, and ROK from 2004 to 2013.]
# Telecommunications Penetration Rates

<table>
<thead>
<tr>
<th>Year</th>
<th>China</th>
<th>Japan</th>
<th>ROK</th>
<th>China</th>
<th>Japan</th>
<th>ROK</th>
<th>China</th>
<th>Japan</th>
<th>ROK</th>
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</thead>
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<td>25.74</td>
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<td>78.12</td>
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<td>8.52</td>
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<tr>
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<td>84.84</td>
<td>93.41</td>
<td>16.00</td>
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<td>55.97</td>
<td>91.90</td>
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<td>78.00</td>
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<td>97.43</td>
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<td>108.50</td>
<td>38.30</td>
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<td>2012</td>
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<td>110.36</td>
<td>42.30</td>
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<td>84.10</td>
</tr>
<tr>
<td>2013</td>
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<td>50.00</td>
<td>62.00</td>
<td>89.00</td>
<td>115.00</td>
<td>111.00</td>
<td>45.80</td>
<td>86.30</td>
<td>84.80</td>
</tr>
</tbody>
</table>

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

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

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

**Source:** World Bank

### Telephone Lines

**per 100 persons**

<table>
<thead>
<tr>
<th>Year</th>
<th>China</th>
<th>Japan</th>
<th>ROK</th>
</tr>
</thead>
<tbody>
<tr>
<td>2004</td>
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<td>51</td>
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</tr>
<tr>
<td>2012</td>
<td>50</td>
<td>21</td>
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</tr>
<tr>
<td>2013</td>
<td>23</td>
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</tbody>
</table>
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.