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China's Economic Rise: History, Trends, Challenges, and Implications for the United States

Wayne M. Morrison

Specialist in Asian Trade and Finance

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Summary

Prior to the initiation of economic reforms and trade liberalization 36 years ago, China maintained policies that kept the economy very poor, stagnant, centrally-controlled, vastly inefficient, and relatively isolated from the global economy. Since opening up to foreign trade and investment and implementing free market reforms in 1979, China has been among the world's fastest-growing economies, with real annual gross domestic product (GDP) growth averaging nearly 10% through 2014. In recent years, China has emerged as a major global economic power. It is now the world's largest economy (on a purchasing power parity basis), manufacturer, merchandise trader, and holder of foreign exchange reserves.

The global economic crisis that began in 2008 greatly affected China's economy. China's exports, imports, and foreign direct investment (FDI) inflows declined, GDP growth slowed, and millions of Chinese workers reportedly lost their jobs. The Chinese government responded by implementing a \$586 billion economic stimulus package and loosening monetary policies to increase bank lending. Such policies enabled China to effectively weather the effects of the sharp global fall in demand for Chinese products. However, the Chinese economy has slowed in recent years, due in part to sharp slowdowns in the growth rates of export and fixed investment. Real GDP fell from 10.4% in 2010 to 7.8% in 2012, to 7.3% in 2014. The IMF projects that China's real GDP growth will slow to 6.8% in 2015 and to 6.3% in 2016.

The Chinese government has attempted to steer the economy to a "new normal" of slower, but more stable and sustainable, economic growth. Yet, concerns have deepened in recent months over the health of the Chinese economy. For example, the Shanghai Composite Index fell by 43% from June 12 to August 25, 2015, despite extensive intervention by the Chinese government to halt the slide. On August 11, 2015, the Chinese government announced that the daily reference rate of the renminbi (RMB) would become more "market-oriented." Over the next three days, the RMB depreciated by 4.4% against the dollar, leading some critics to charge that China's goal was actually to boost exports to help stimulate the economy, which some suspect may be in worse shape than indicated by official Chinese economic statistics. Concerns over the state of the Chinese economy appear to have contributed to recent sharp volatility in global stock indexes.

The ability of China to maintain a rapidly growing economy in the long run will likely depend largely on the ability of the Chinese government to implement comprehensive economic reforms that more quickly hasten China's transition to a free market economy; rebalance the Chinese economy by making consumer demand, rather than exporting and fixed investment, the main engine of economic growth; boost productivity and innovation; address growing income disparities; and enhance environmental protection. The Chinese government has acknowledged that its current economic growth model needs to be altered and has announced several initiatives to address various economic challenges. In November 2013, the Communist Party of China held the Third Plenum of its 18th Party Congress, which outlined a number of broad policy reforms to boost competition and economic efficiency. For example, the communique stated that the market would now play a "decisive" role in allocating resources in the economy. At the same time, however, the communique emphasized the continued important role of the state sector in China's economy. In addition, many foreign firms have complained that the business climate in China has worsened in recent years. Thus, it remains unclear how committed the Chinese government is to implementing new comprehensive economic reforms.

China's economic rise has significant implications for the United States and hence is of major interest to Congress. This report provides background on China's economic rise; describes its current economic structure; identifies the challenges China faces to maintain economic growth; and discusses the challenges, opportunities, and implications of China's economic rise.

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The rapid rise of China as a major economic power within a time span of about three decades is often described by analysts as one of the greatest economic success stories in modern times. From 1979 (when economic reforms began) to 2014, China's real gross domestic product (GDP) grew at an average annual rate of nearly 10%.¹ The World Bank estimates that from 1981 to 2010, 679 million people in China were raised out of extreme poverty.² China has emerged as a major global economic power. It is now the world's largest economy (on a purchasing power parity basis) manufacturer, merchandise exporter and importer, and holder of foreign exchange reserves.

China's rapid economic growth has led to a substantial increase in bilateral commercial ties with the United States. According to U.S. trade data, total trade between the two countries grew from \$5 billion in 1980 to \$592 billion in 2014. China is currently the United States' second-largest trading partner, its third-largest export market, and its largest source of imports. Many U.S. companies have extensive operations in China in order to sell their products in the booming Chinese market and to take advantage of lower-cost labor for export-oriented manufacturing.³ These operations have helped some U.S. firms to remain internationally competitive and have supplied U.S. consumers with a variety of low-cost goods. China's large-scale purchases of U.S. Treasury securities (which totaled \$1.24 trillion as of July 2015) have enabled the federal government to fund its budget deficits, which help keep U.S. interest rates relatively low.⁴

However, the emergence of China as a major economic power has raised concern among many U.S. policymakers. Some claim that China uses unfair trade practices (such as an undervalued currency and subsidies given to domestic producers) to flood U.S. markets with low-cost goods, and that such practices threaten American jobs, wages, and living standards. Others contend that China's growing use of industrial policies to promote and protect certain domestic Chinese industries or firms favored by the government, and its failure to take effective action against widespread infringement and theft of U.S. intellectual property rights (IPR) in China, threaten to undermine the competitiveness of U.S. IP-intensive industries. In addition, while China has become a large and growing market for U.S. exports, critics contend that numerous trade and investment barriers limit opportunities for U.S. firms to sell in China, or force them to set up production facilities in China as the price of doing business there. Other concerns relating to China's economic growth include its growing demand for energy and raw materials and its emergence as the world's largest emitter of greenhouse gasses.

The Chinese government views a growing economy as vital to maintaining social stability. However, China faces a number of major economic challenges which could dampen future growth, including distortive economic policies that have resulted in over-reliance on fixed investment and exports for economic growth (rather than on consumer demand), government support for state-owned firms, a weak banking system, widening income gaps, growing pollution, and the relative lack of the rule of law in China. The Chinese government has acknowledged these problems and has pledged to address them by implementing policies to increase the role of

¹ China's economic reform process began in December 1978 when the Third Plenum of the Eleventh Central Committee of the Communist Party adopted Deng Xiaoping's economic proposals. Implementation of the reforms began in 1979.

² The World Bank, *World DataBank, Poverty and Inequality Database*. Extreme poverty is defined as those living on less than \$1.25 per day on a purchasing power parity basis.

³ Some companies use China as part of their global supply chain for manufactured parts, which are then exported and assembled elsewhere. Other firms have shifted the production of finished products from other countries (mainly in Asia) to China; they import parts and materials into China for final assembly.

⁴ See CRS Report RL33536, *China-U.S. Trade Issues*, by Wayne M. Morrison.

the market in the economy, boost innovation, make consumer spending the driving force of the economy, expand social safety net coverage, encourage the development of less-polluting industries (such as services), and crack down on official government corruption. The ability of the Chinese government to implement such reforms will likely determine whether China can continue to maintain relatively rapid economic growth rates, or will instead begin to experience significantly lower growth rates.

China's growing economic power has led it to become increasingly involved in global economic policies and initiatives, especially aimed at financing infrastructure development abroad, including the recent creation by China of two new investment banks. China's growing economic influence globally has raised a number of questions, and in some cases, concerns, as to how China's rise will affect U.S. economic interests and influence on global economic policies. China's economic rise has become a factor in congressional debate over various aspects of U.S. trade policy (that are not directly related to China), such as the renewal of trade promotion authority (TPA) and the Trans-Pacific Partnership (TPP).⁵

This report provides background on China's economic rise; describes its current economic structure; identifies the challenges China faces to maintain economic growth; and discusses the challenges, opportunities, and implications of China's economic rise for the United States.

The History of China's Economic Development

China's Economy Prior to Reforms

Prior to 1979, China, under the leadership of Chairman Mao Zedong, maintained a centrally planned, or command, economy. A large share of the country's economic output was directed and controlled by the state, which set production goals, controlled prices, and allocated resources throughout most of the economy. During the 1950s, all of China's individual household farms were collectivized into large communes. To support rapid industrialization, the central government undertook large-scale investments in physical and human capital during the 1960s and 1970s. As a result, by 1978 nearly three-fourths of industrial production was produced by centrally controlled, state-owned enterprises (SOEs), according to centrally planned output targets. Private enterprises and foreign-invested firms were generally barred. A central goal of the Chinese government was to make China's economy relatively self-sufficient. Foreign trade was generally limited to obtaining those goods that could not be made or obtained in China. Such policies created distortions in the economy. Since most aspects of the economy were managed and run by the central government, there were no market mechanisms to efficiently allocate resources, and thus there were few incentives for firms, workers, and farmers to become more productive or be concerned with the quality of what they produced (since they were mainly focused on production goals set by the government).

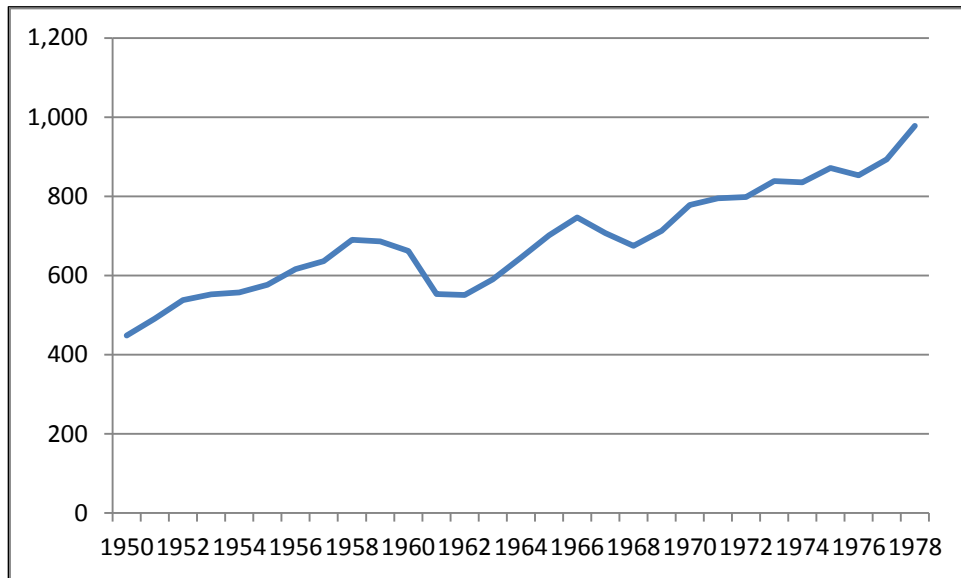
According to Chinese government statistics, China's real GDP grew at an average annual rate of 6.7% from 1953 to 1978, although the accuracy of these data has been questioned by many analysts, some of whom contend that during this period, Chinese government officials (especially at the sub-national levels) often exaggerated production levels for a variety of political reasons. Economist Angus Maddison puts China's actual average annual real GDP during this period at

⁵ For additional information on TPA and TPP, see CRS In Focus IF10038, *Trade Promotion Authority (TPA)*, by Ian F. Fergusson, and CRS In Focus IF10000, *The Trans-Pacific Partnership (TPP) Agreement*, by Brock R. Williams and Ian F. Fergusson.

about 4.4%.⁶ In addition, China's economy suffered significant economic downturns during the leadership of Chairman Mao Zedong, including during the Great Leap Forward from 1958 to 1960 (which led to a massive famine and reportedly the deaths of up to 45 million people)⁷ and the Cultural Revolution from 1966 to 1976 (which caused widespread political chaos and greatly disrupted the economy). From 1950 to 1978, China's per capita GDP on a purchasing power parity (PPP) basis,⁸ a common measurement of a country's living standards, doubled. However, from 1958-1962, Chinese living standards fell by 20.3%, and from 1966-1968, they dropped by 9.6% (see **Figure 1**). In addition, the growth in Chinese living standards paled in comparison to those in the West, such as Japan, as indicated in **Figure 2**.

Figure 1. Chinese Per Capita GDP: 1950-1978

(\$ billions, PPP basis)



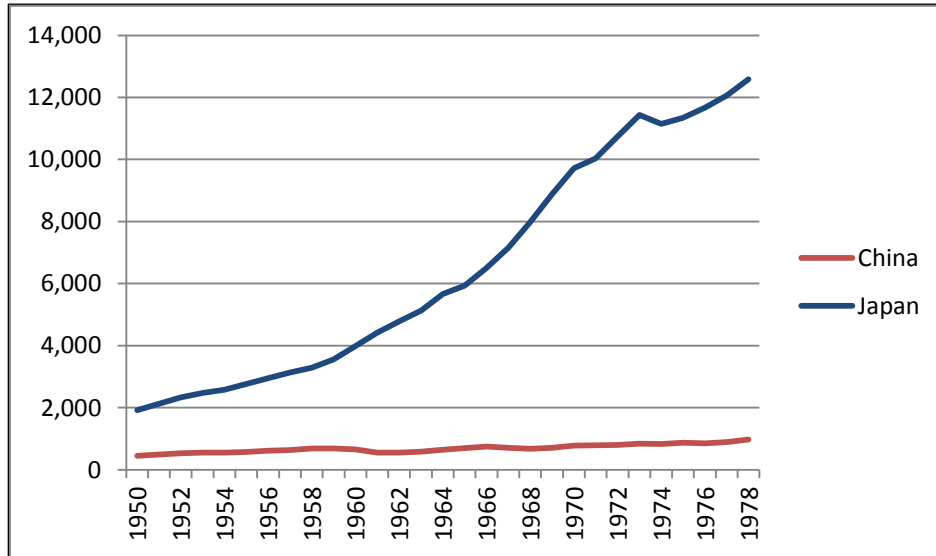
Source: Angus Maddison, Historical, *Statistics of the World Economy: 1-2008 AD*.

⁶ The Organization for Economic Cooperation and Development, *Chinese Economic Performance in the Long Run, 960-2030*, by Angus Maddison, 2007.

⁷ New York Times, Editorial, *Mao's Great Leap to Famine*, December 15, 2010.

⁸ Purchasing power parities are a method used to measure and compare the economic data of other countries expressed in U.S. dollars. That method adjusts the data to reflect differences in prices across countries. This method is discussed in more detail later in the report.

Figure 2. Comparison of Chinese and Japanese Per Capita GDP: 1950-1978
(\$ billions, PPP basis)



Source: Angus Maddison, *Historical Statistics of the World Economy: 1-2008 AD*.

The Chinese government in 1978 (shortly after the death of Chairman Mao in 1976) decided to break with its Soviet-style economic policies by gradually reforming the economy according to free market principles and opening up trade and investment with the West, in the hope that this would significantly increase economic growth and raise living standards. As Chinese leader Deng Xiaoping, the architect of China's economic reforms, put it: "Black cat, white cat, what does it matter what color the cat is as long as it catches mice?"⁹

The Introduction of Economic Reforms

Beginning in 1979, China launched several economic reforms. The central government initiated price and ownership incentives for farmers, which enabled them to sell a portion of their crops on the free market. In addition, the government established four special economic zones along the coast for the purpose of attracting foreign investment, boosting exports, and importing high technology products into China. Additional reforms, which followed in stages, sought to decentralize economic policymaking in several sectors, especially trade. Economic control of various enterprises was given to provincial and local governments, which were generally allowed to operate and compete on free market principles, rather than under the direction and guidance of state planning. In addition, citizens were encouraged to start their own businesses. Additional coastal regions and cities were designated as open cities and development zones, which allowed them to experiment with free market reforms and to offer tax and trade incentives to attract foreign investment. In addition, state price controls on a wide range of products were gradually eliminated. Trade liberalization was also a major key to China's economic success. Removing trade barriers encouraged greater competition and attracted FDI inflows. China's gradual implementation of economic reforms sought to identify which policies produced favorable economic outcomes (and which did not) so that they could be implemented in other parts of the

⁹ This reference appears to have meant that it did not matter whether an economic policy was considered to be "capitalist" or "socialist," what really mattered was whether that policy would boost the economy.

country, a process Deng Xiaoping reportedly referred to as “crossing the river by touching the stones.”¹⁰

China's Economic Growth and Reforms: 1979-the Present

Since the introduction of economic reforms, China's economy has grown substantially faster than during the pre-reform period, and, for the most part, has avoided major economic disruptions.¹¹ From 1979 to 2014, China's annual real GDP averaged nearly 10% (see **Figure 3**). This has meant that, on average, China has been able to double the size of its economy in real terms every eight years.

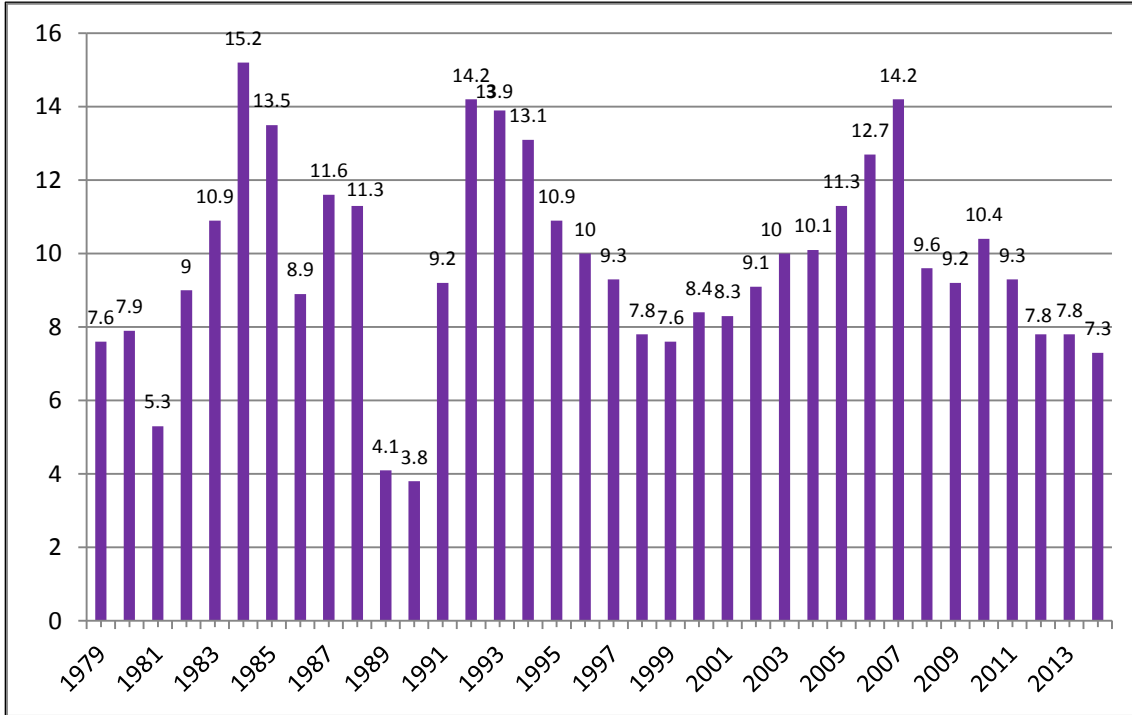
The global economic slowdown, which began in 2008, affected the Chinese economy (especially the export sector). China's real GDP growth fell from 14.2% in 2007 to 9.6% in 2008, and slowed to 9.2% in 2009. In response, the Chinese government implemented a large economic stimulus package and an expansive monetary policy. These measures boosted domestic investment and consumption and helped prevent a sharp economic slowdown in China. From 2009 to 2011, China's real GDP growth averaged 9.6%. China's economy has slowed in recent years—real GDP growth fell from 10.4% in 2010 to 7.8% in 2012, to 7.3% in 2014 (see **Figure 4**). The IMF projects that China's real GDP growth will slow to 6.8% in 2015 and to 6.3% in 2016.¹²

¹⁰ Many analysts contend that Deng's push to implement economic reforms was largely motivated by a belief that the resulting economic growth would ensure that the Communist Party stayed in power.

¹¹ China's economic growth slowed significantly followed the aftermath of the Tiananmen massacre that occurred in June 1989. Several countries, including the United States, imposed trade sanctions against China. In addition, Chinese economic reforms were essentially put on hold. China's real GDP growth rate fell from 11.3% in 1988 to 4.1% in 1989, and declined to 3.8% in 1990. In 1991, Chinese economic reforms were resumed, and several economic sanctions were lifted. As a result, China's rapid economic growth rates resumed.

¹² IMF, *World Economic Outlook, October 2015*.

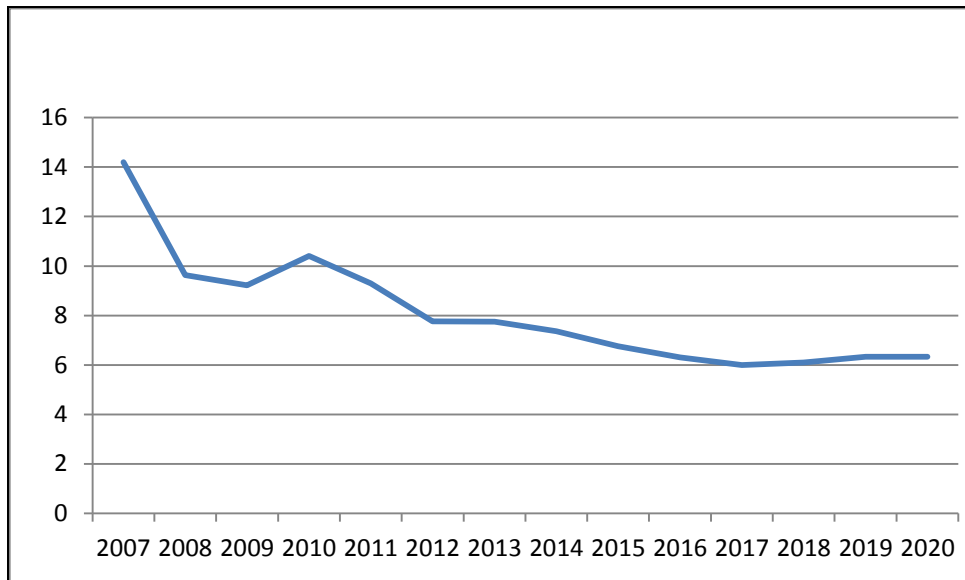
Figure 3. Chinese Real GDP Growth: 1979-2014
(percent)



Source: International Monetary Fund, *World Economic Outlook*.

Note: The sharp economic slowdown in 1989 and 1990 was largely the result of the political and economic turmoil in China that occurred following the June 4, 1989, Chinese government crackdown on pro-democracy students and subsequent economic sanctions that were imposed against China by several countries.

Figure 4. China's Real GDP Growth 2007-2014 and Projections through 2020
(percent)



Source: IMF, *World Economic Outlook*, April 2015.

Causes of China's Economic Growth

Economists generally attribute much of China's rapid economic growth to two main factors: large-scale capital investment (financed by large domestic savings and foreign investment) and rapid productivity growth. These two factors appear to have gone together hand in hand. Economic reforms led to higher efficiency in the economy, which boosted output and increased resources for additional investment in the economy.

China has historically maintained a high rate of savings. When reforms were initiated in 1979, domestic savings as a percentage of GDP stood at 32%. However, most Chinese savings during this period were generated by the profits of SOEs, which were used by the central government for domestic investment. Economic reforms, which included the decentralization of economic production, led to substantial growth in Chinese household savings as well as corporate savings. As a result, China's gross savings as a percentage of GDP is the highest among major economies. The large level of savings has enabled China to substantially boost domestic investment. In fact, China's gross domestic savings levels far exceed its domestic investment levels, which have made China a large net global lender.

Several economists have concluded that productivity gains (i.e., increases in efficiency) have been another major factor in China's rapid economic growth. The improvements to productivity were caused largely by a reallocation of resources to more productive uses, especially in sectors that were formerly heavily controlled by the central government, such as agriculture, trade, and services. For example, agricultural reforms boosted production, freeing workers to pursue employment in the more productive manufacturing sector. China's decentralization of the economy led to the rise of non-state enterprises (such as private firms), which tended to pursue more productive activities than the centrally controlled SOEs and were more market-oriented and more efficient. Additionally, a greater share of the economy (mainly the export sector) was exposed to competitive forces. Local and provincial governments were allowed to establish and operate various enterprises without interference from the government. In addition, FDI in China brought with it new technology and processes that boosted efficiency.

However, as China's technological development begins to approach that of major developed countries (i.e., through its adoption of foreign technology), its level of productivity gains, and thus, real GDP growth, could slow significantly from its historic levels unless China becomes a major center for new technology and innovation and/or implements new comprehensive economic reforms. Several developing economies (notably several in Asia and Latin America) experienced rapid economic development and growth during the 1960s and 1970s by implementing some of the same policies that China has utilized to date to develop its economy, such as measures to boost exports and to promote and protect certain industries. However, at some point in their development, some of these countries began to experience economic stagnation (or much slower growth compared to previous levels) over a sustained period of time, a phenomenon described by economists as the "middle-income trap."¹³ This means that several developing (low-income) economies were able to transition to a middle income economy, but because they were unable to sustain high levels of productivity gains (in part because they could not address structural inefficiencies in the economy), they were unable to transition to a high-income economy.¹⁴ China may be at a similar crossroads now.¹⁵ The Economist Intelligence Unit

¹³ Japan was able to become a high-income economy, but since the mid-1980s, its economic growth has been relatively stagnant.

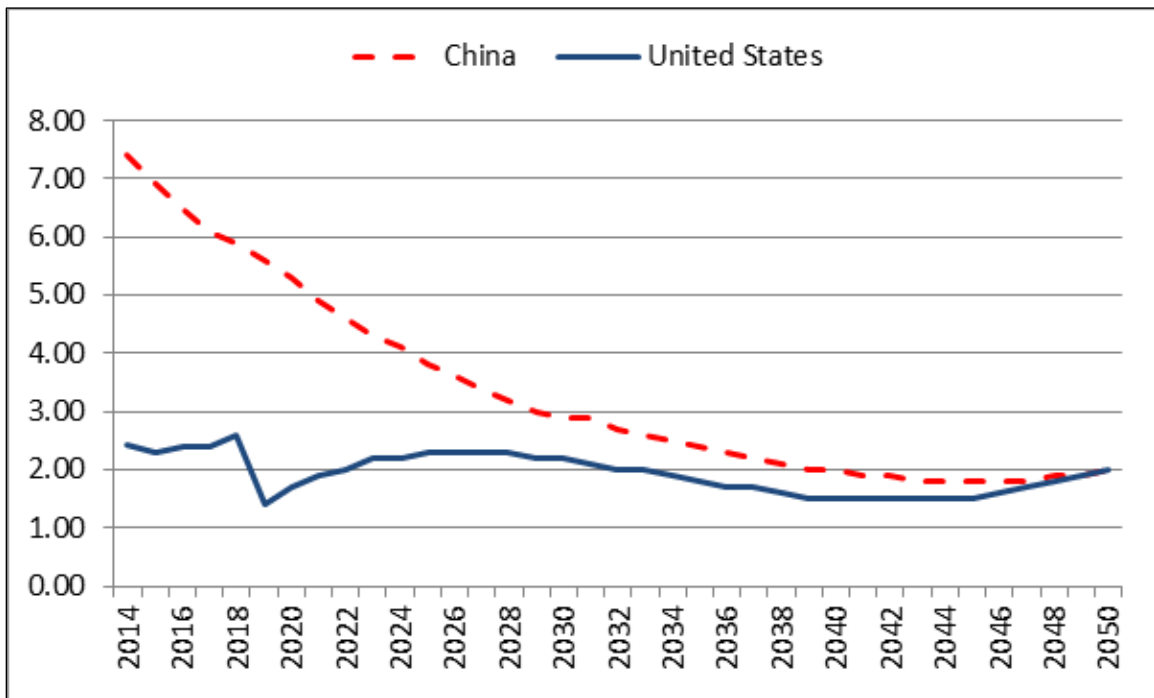
¹⁴ These designations are based on World Bank per capita GDP measurements.

¹⁵ For a discussion of this issue, see the World Bank, *China 2030*, 2013, p. 12, at <http://www-wds.worldbank.org/> (continued...)

(EIU) projects that China's real GDP growth will slow considerably in the years ahead, averaging 5.4% from 2015 to 2024, 3.1% from 2025 to 2034, and 2.0% from 2035 to 2044. Eventually, according to the EIU, Chinese real GDP growth rates will be similar to U.S. levels (**Figure 5**).¹⁶

The Chinese government has indicated its desire to move away from its current economic model of fast growth at any cost to more “smart” economic growth, which seeks to reduce reliance on energy-intensive and high-polluting industries and rely more on high technology, green energy, and services. China also has indicated it wants to obtain more balanced economic growth. (These issues are discussed in more detail later in the report.)

Figure 5. U.S. and Chinese Real GDP Growth Rates in 2014 and Projections through 2050
(percent)



Source: Economist Intelligence Unit Database (accessed on September 8, 2015).

Note: Long-range economic projections should be viewed with caution.

Measuring the Size of China's Economy

The rapid growth of the Chinese economy has led many analysts to speculate if and when China will overtake the United States as the “world's largest economic power.” The “actual” size of China's economy has been a subject of extensive debate among economists. Measured in U.S. dollars using nominal exchange rates, China's GDP in 2014 in nominal dollars was \$10.4 trillion,

(...continued)

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¹⁶ Real GDP growth for China and the United States are projected to be the same in 2049 and 2050 at 1.9% and 2.0%, respectively. Note, however that long-term economic projections should be viewed with caution.

about 60% the size of the U.S. economy, according to estimates made by the IMF in April 2015. China's per capita GDP in 2014 was \$7,589, which was 14% of the U.S. level.

Many economists contend that using nominal exchange rates to convert Chinese data (or that of other countries) into U.S. dollars fails to reflect the true size of China's economy and living standards relative to the United States. Nominal exchange rates simply reflect the prices of foreign currencies vis-à-vis the U.S. dollar and such measurements exclude differences in the prices for goods and services across countries. To illustrate, one U.S. dollar exchanged for local currency in China would buy more goods and services there than it would in the United States. This is because prices for goods and services in China are generally lower than they are in the United States. Conversely, prices for goods and services in Japan are generally higher than they are in the United States (and China). Thus, one dollar exchanged for local Japanese currency would buy fewer goods and services there than it would in the United States. Economists attempt to develop estimates of exchange rates based on their actual purchasing power relative to the dollar in order to make more accurate comparisons of economic data across countries, usually referred to as purchasing power parity (PPP).

The PPP exchange rate increases the (estimated) measurement of China's economy and its per capita GDP. According to the IMF (which uses price surveys conducted by the World Bank), prices for goods and services in China are about 56% the level they are in the United States. Adjusting for this price differential raises the value of China's 2014 GDP from \$10.4 trillion (nominal dollars) to \$17.6 trillion (on a PPP basis) (see **Table 1**).¹⁷ This would indicate that China in 2014 overtook the United States as the world's largest economy.¹⁸ China's share of global GDP on a PPP basis rose from 2.3% in 1980 to 16.5% in 2014, while the U.S. share of global GDP on a PPP basis was 24.3% in 1980, but by 2014, had fallen to 16.3%. This would not be the first time in history that China was the world's largest economy (see **text box**). China's economic ascendancy has been impressive, especially considering that in 1980, China's GDP on a PPP basis was only one-tenth that of the United States (see **Figure 6**). The IMF predicts that by 2019, China's economy will be 21.3% larger than the U.S. economy on a PPP basis.

Table 1. Comparisons of Chinese, Japanese, and U.S. GDP and Per Capita GDP in Nominal U.S. Dollars and a Purchasing Power Parity Basis: 2014

	China	United States
Nominal GDP (\$ billions)	10,355	17,419
GDP in PPP (\$ billions)	17,617	17,419
Nominal Per Capita GDP (\$)	7,589	54,597
Per Capita GDP in PPP (\$)	12,880	54,597

Source: IMF, World Economic Outlook, April 2015.

¹⁷ In other words, the PPP data reflect what the value of China's goods and services would be if they were sold in the United States.

¹⁸ The IMF originally first projected that China would overtake the United States as the largest economy in its October 2014 World Economic Outlook report.

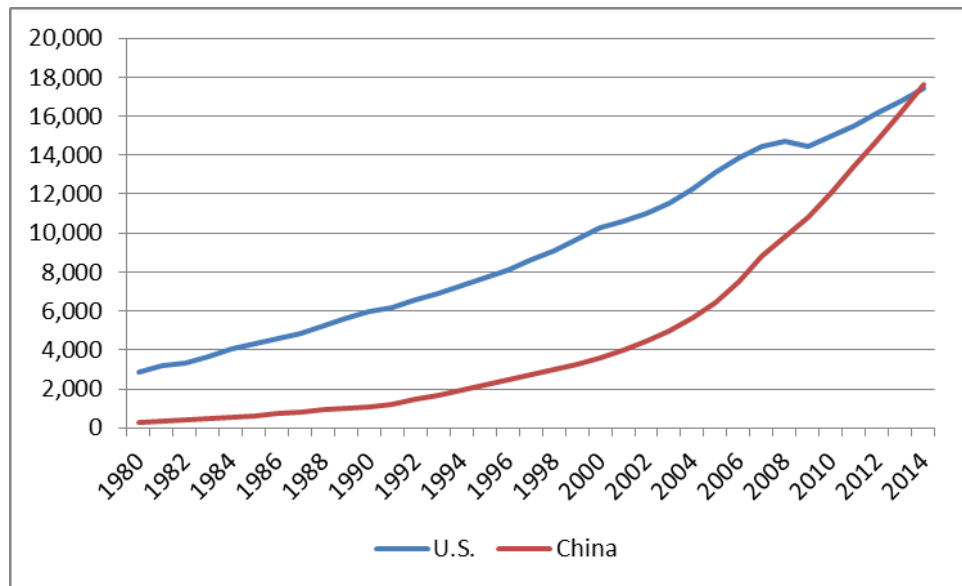
The Decline and Rise of China's Economy

According to a study by economist Angus Maddison, China was the world's largest economy in 1820, accounting for an estimated 32.9% of global GDP. However, foreign and civil wars, internal strife, weak and ineffective governments, natural disasters (some of which were man-made), and distortive economic policies caused China's share of global GDP on a PPP basis to shrink significantly. By 1952, China's share of global GDP had fallen to 5.2%, and by 1978, it slid to 4.9%.¹⁹ The adoption of economic reforms by China in the late 1970s led to a surge in China's economic growth and has helped restore China as a major global economic power.

Source: The Organization for Economic Cooperation and Development, *Chinese Economic Performance in the Long Run, 960-2030*, by Angus Maddison, 2007.

Figure 6. Chinese and U.S. GDP on a PPP Basis: 1980-2014

(\$ trillions)



Source: IMF, *World Economic Outlook*.

The PPP measurement also raises China's 2014 nominal per capita GDP (from \$7,589) to \$12,880, which was 24% of the U.S. level. Even with continued rapid economic growth it would likely take many years for Chinese living standards to approach U.S. levels. The EIU projects that, even by the year 2050, Chinese living standards will be 48% those of the United States.²⁰

China as the World's Largest Manufacturer

China has emerged as the world's largest manufacturer according to the United Nations. **Figure 7** lists estimates of the gross value added of manufacturing in China, the United States, and Japan expressed in U.S. dollars for 2004 to 2013. Gross value added data reflect the actual value of manufacturing that occurred in the country (i.e., they subtract the value of intermediate inputs and raw materials used in production). These data indicate that China overtook Japan as the world's second-largest manufacturer on a gross value added basis in 2006 and the United States in 2010.

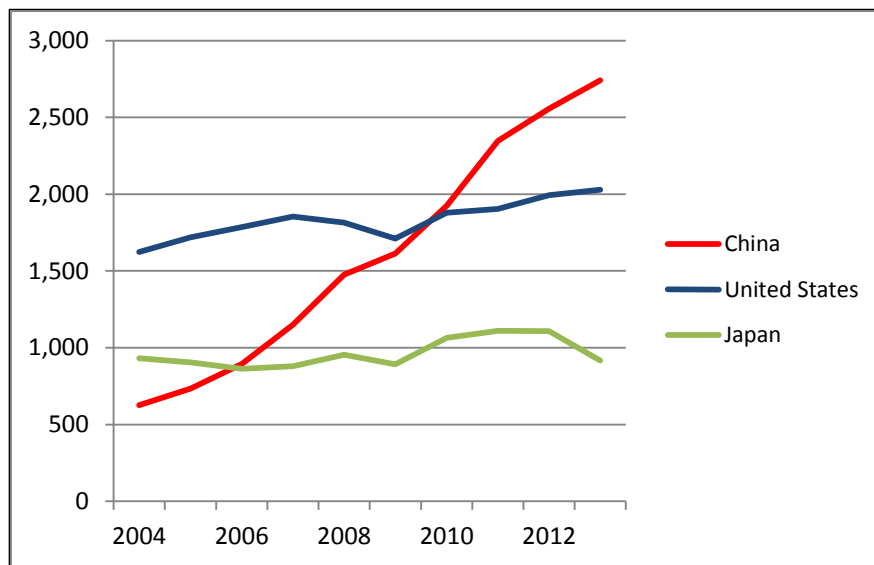
¹⁹ In comparison, the U.S. share of global GDP was estimated to have risen from 1.8% in 1820 to 27.5% in 1952, but declined to 21.6% by 1978.

²⁰ EIU database, surveyed on September 8, 2015.

In 2013, the value of China's manufacturing on a gross value added basis was 35.1% higher than that in the United States. Manufacturing plays a considerably more important role in the Chinese economy than it does for the United States and Japan. In 2013, China's gross valued added manufacturing was equal to 28.9% of GDP, compared to 12.1% for the United States and 18.7% for Japan.²¹

In its 2013 Global Manufacturing Competitiveness Index, Deloitte (an international consulting firm) ranked China first in manufacturing in 2013 and projected it would remain so in five years (the United States ranked third in 2013 and was projected to rank fifth in 2018). The report stated that "China's competitiveness is bolstered by conducive policy environment either encouraging or directly funding investments in science and technology, employee education and infrastructure development," and further stated that "the landscape for competitive manufacturing is in the midst of a massive power shift, in which twentieth-century manufacturing stalwarts like the United States, Germany and Japan will be challenged to maintain their competitive edge to emerging nations, including China."²²

Figure 7. Gross Value Added Manufacturing in China, the United States, and Japan: 2004-2013
(\$ billions)



Source: United Nations, *UNdata*.

Changes in China's Wage Advantage

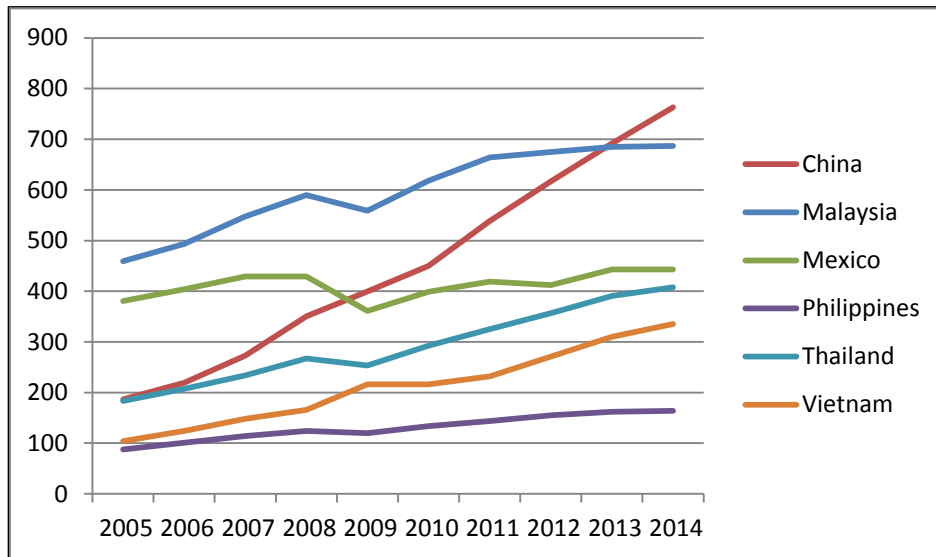
China's huge population and relatively low wage rates gave it a significant competitive advantage when economic reforms and trade liberalization were first begun by the government in the late 1970s. However, this advantage appears to be eroding as wages in China have risen in recent

²¹ United Nations, *UNdata*, available at <http://data.un.org/Data.aspx?d=SNAAMA&f=grID%3a201%3bcurreID%3aUSD%3bpcFlag%3a0>.

²² Deloitte, Press Release, January 22, 2013, available at http://www.deloitte.com/view/en_CN/cn/Pressroom/pr/105280463d16c310VgnVCM2000003356f70aRCRD.htm. The index was based on a survey of 550 chief executive officers and senior leaders in manufacturing companies around the world.

years. From 2005 to 2014, Chinese wages rose by 309%. As indicated in **Figure 8**, China's average monthly wages (converted into U.S. dollars) in 2005 were \$187 compared with \$381 per month for Mexico (China's wages were 49% the size of Mexican wages).²³ However, in 2014, China's average monthly wages at \$763 were 72.2% higher than those in Mexico (\$443). A 2014 survey by the U.S.-China Business Council indicated that a majority of U.S. firms American surveyed reported that they have been increasing wages between 5% and 10% annually for at least the last three years and they anticipate this trend would continue as the labor market becomes even tighter.²⁴ Rising labor costs are one of the main reasons why the Chinese government has focused on boosting the nation's innovation and productivity levels.²⁵

Figure 8. Average Monthly Wages for Selected Countries: 2000-2014
(U.S. dollars)



Source: Economist Intelligence Unit.

Notes: Because data are listed in U.S. dollars rather than local currency, changes to monthly wages may also partially reflect changes to exchange rates with the U.S. dollar. However, such data reflect average labor costs that U.S.-invested firms might face in their overseas operations.

Foreign Direct Investment (FDI) in China

China's trade and investment reforms and incentives led to a surge in FDI beginning in the early 1990s. Such flows have been a major source of China's productivity gains and rapid economic and trade growth. There were reportedly 445,244 foreign-invested enterprises (FIEs) registered in

²³ The Economist Intelligence Unit, *Data Tool*.

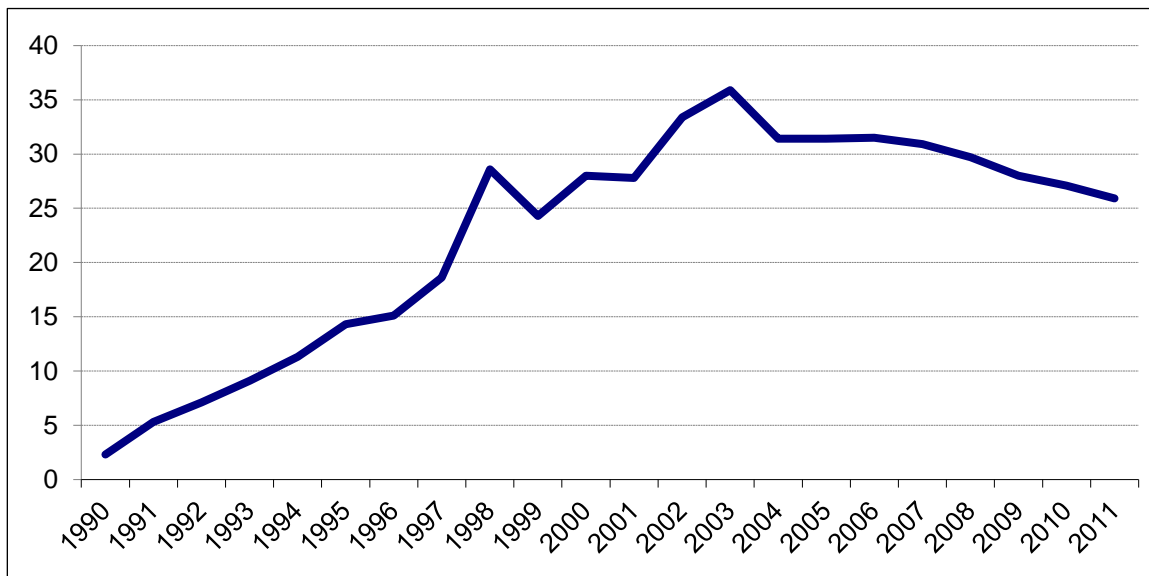
²⁴ U.S. China Business Council, *USCBC 2014 China Business Environment Survey Results: Growth Continues Amidst Rising Competition, Policy Uncertainty*, 2014, at https://www.uschina.org/sites/default/files/USCBC%202014%20China%20Business%20Environment%20Survey%20Results%20%28English%29_0.pdf.

²⁵ Despite rising labor costs, China continues to enjoy a significant excess supply of labor, estimated by the IMF to be currently at 150 million. However, that level is projected to fall to around 30 million by 2020. See IMF, *2012 Article IV Report, People's Republic of China*, July 2012, p. 8.

China in 2010, employing 55.2 million workers or 15.9% of the urban workforce.²⁶ As indicated in **Figure 9**, FIEs account for a significant share of China's industrial output. That level rose from 2.3% in 1990 to a high of 35.9% in 2003, but fell to 25.9% as of 2011.²⁷ In addition, FIEs are responsible for a significant level of China's foreign trade. In 2014, FIEs in China accounted for 45.9% of China's exports and 46.4% of its imports, although this level was down from its peak in 2006 when FIEs' share of Chinese exports and imports was 58.2% and 59.7%, respectively, as indicated in **Figure 10**.²⁸ FIEs in China dominate China's high technology exports. From 2002 to 2010, the share of China's high tech exports by FIEs rose from 79% to 82%. During the same period, the share of China's high tech exports by wholly owned foreign firms (which excludes foreign joint ventures with Chinese firms) rose from 55% to 67%.

Figure 9. Industrial Output by Foreign-Invested Firms in China as a Share of National Output Total: 1990-2011

(percent)



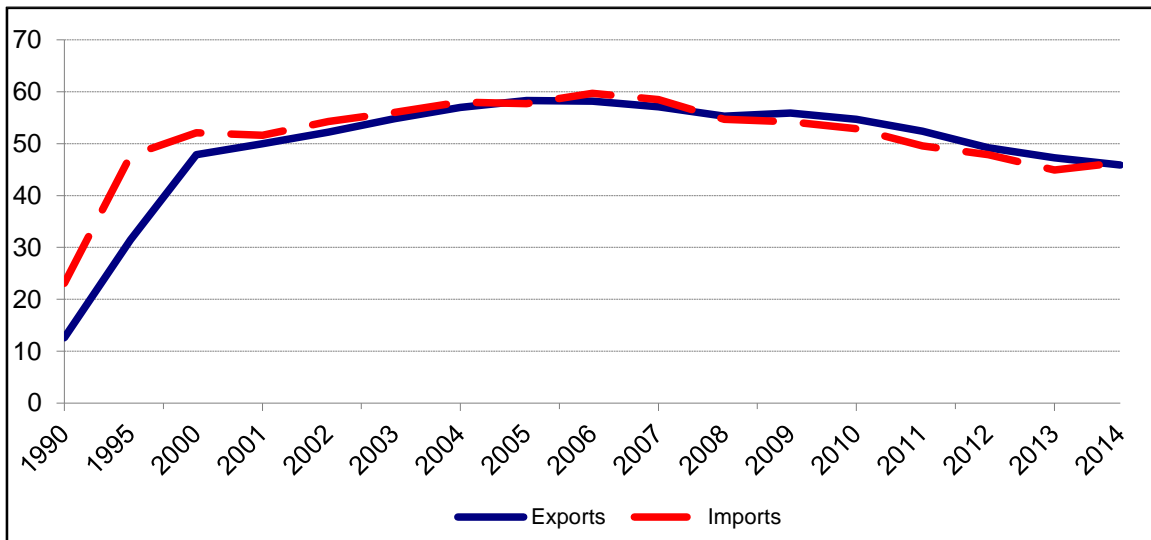
Source: Invest in China (<http://www.fdi.gov.cn>) and China's 2012 Statistical Yearbook.

²⁶ China 2012 Statistical Yearbook.

²⁷ Industrial output is defined by the Chinese government as the total volume of final industrial products produced and industrial services provided during a given period. Source: China 2012 Statistical Yearbook.

²⁸ For January-June 2014, the shares for exports and imports were 46.6% and 45.1%, respectively.

Figure 10. Share of China's Exports and Imports Attributed to Foreign-Invested Enterprises in China: 1990-2014
(percent)



Source: Invest in China (<http://www.fdi.gov.cn>).

According to the United Nations, annual FDI flows to China grew from \$2 billion in 1985 to \$128 billion in 2014 (see **Figure 11**).²⁹ The U.N. further estimates the stock of FDI in China through 2013 at nearly \$1.1 trillion.³⁰ As indicated in **Figure 12**, China was the world's largest destination for FDI inflows in 2014 (followed by Hong Kong and the United States).³¹

According to Chinese government data on non-financial FDI inflows, the largest sources of cumulative FDI in China for 1979-2014 were Hong Kong (48.9%),³² the British Virgin Islands (BVI), Japan, the United States, and Taiwan (see **Table 2**).³³ The largest sources of non-financial FDI inflows into China in 2014 were Hong Kong (71.7% of total), Singapore, Taiwan, Japan, and South Korea (the United States ranked sixth). According to Chinese data, annual U.S. non-financial FDI flows to China peaked at \$5.4 billion in 2002 (10.2% of total FDI in China). In 2014, they were \$2.7 billion or 2.3% of total FDI flows to China (see **Figure 13**).³⁴ According to Chinese data, the stock of U.S. non-financial FDI in China (based on Chinese data) was \$77.6

²⁹ Chinese data indicate that FDI inflows from January-July 2015 were up 7.5% over the same period in 2014.

³⁰ U.N. data differ from Chinese data, in part because Chinese data include only nonfinancial FDI.

³¹ According to the United Nations, the United States was the largest source of FDI flows in 2013. The fall in the U.S. ranking in 2014 was largely the result of \$130 billion buy-back of shares by the U.S. firm Verizon from the British firm Vodafone (which reduced the level of U.S. equity inflows).

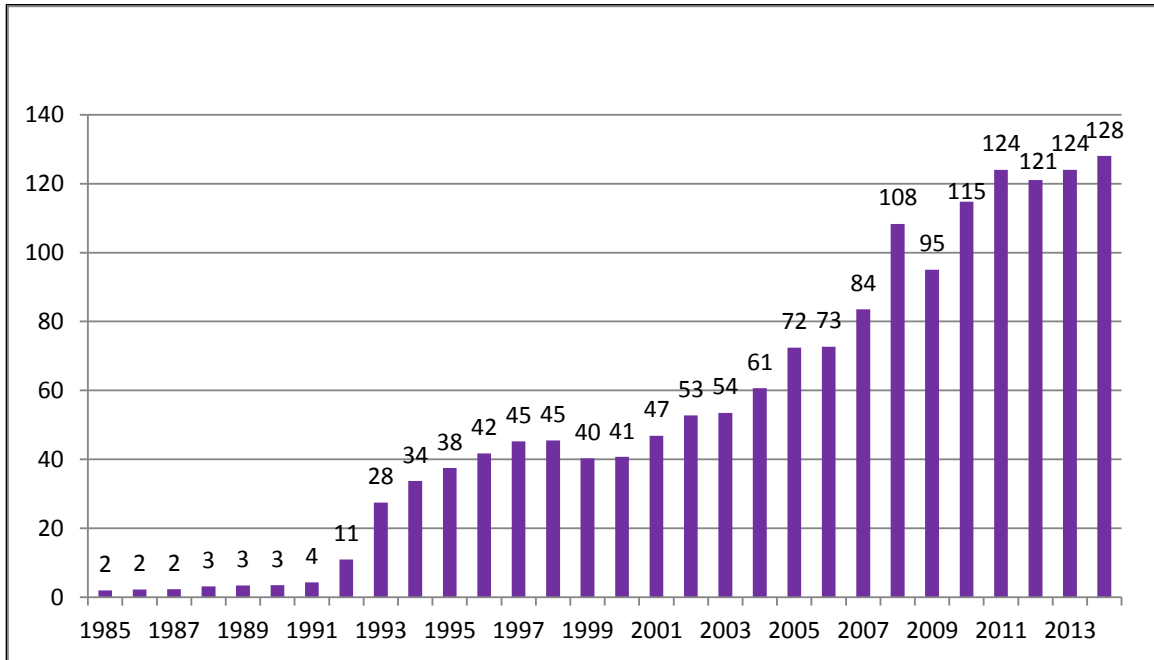
³² Much of the FDI originating from Hong Kong may originate from other foreign investors, such as Taiwan. In addition, some Chinese investors might be using these locations to shift funds overseas in order to re-invest in China to take advantage of preferential investment policies (this practice is often referred to as "round-tipping"). Thus, the actual level of FDI in China may be overstated.

³³ Cumulative values are totals of the data collected each year, are not adjusted for inflation, and do not reflect divestment that may have occurred.

³⁴ U.S. data on bilateral FDI flows with China differ significantly with Chinese data. For additional info on bilateral FDI flows based on U.S. data, see CRS Report RL33536, *China-U.S. Trade Issues*, by Wayne M. Morrison.

billion through 2014.³⁵ According to BEA, U.S. affiliates in China employed nearly \$1.6 million workers in 2012 (the most recent year data are available).

Figure 11. Chinese Data on Annual FDI Inflows to China: 1985-2014
(\$ billions)

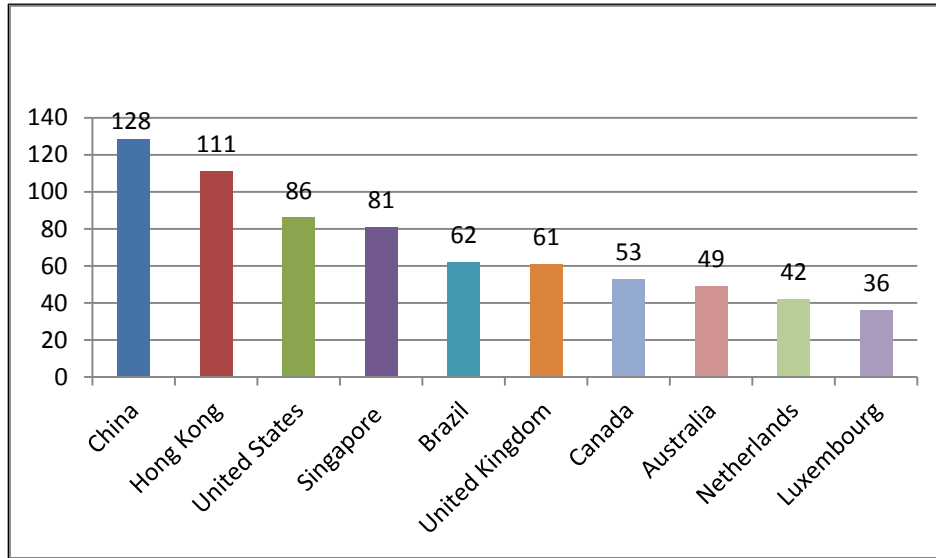


Source: The United Nations.

Note: U.N. FDI data differ from that of official Chinese data.

³⁵ These data are accumulated annual data on FDI flows reported by the Chinese government and do not reflect the historic-cost value of current U.S. FDI in China.

Figure 12. U.N. Estimates of the Largest Recipients of Global FDI Inflows in 2014
(\$ billions)



Source: United Nations Conference on Trade and Investment.

Note: U.N. FDI data on China's FDI inflows differ from China's official data.

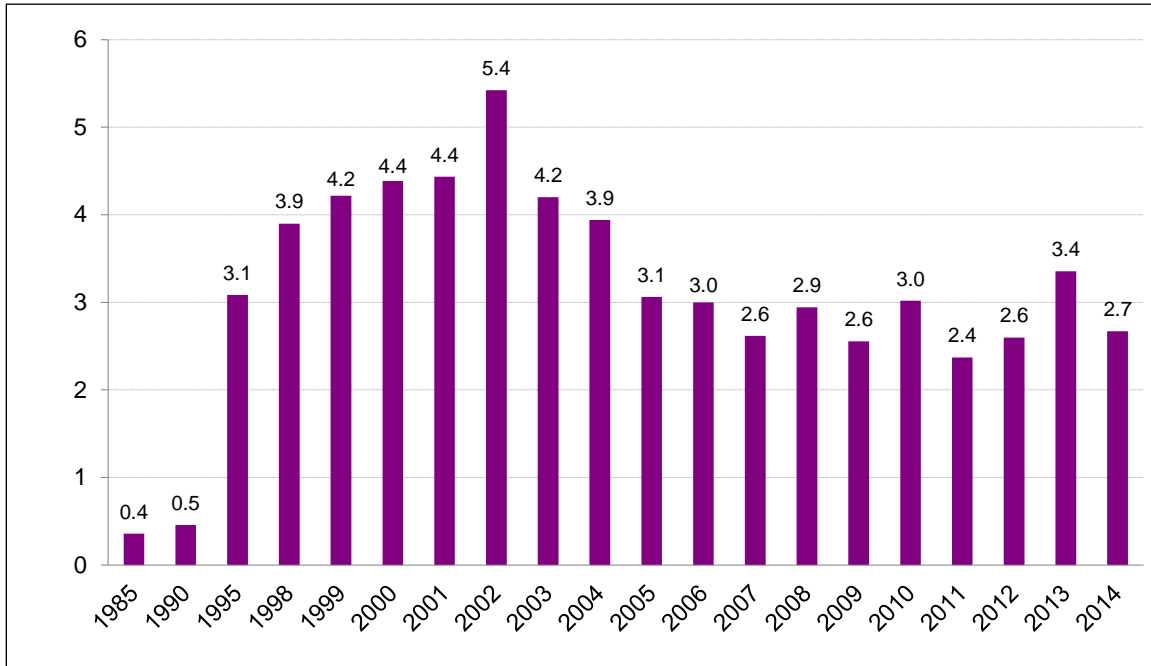
Table 2. Chinese Data on Major Sources of FDI Flows to China: 1979-2014
(\$ billions and percentage of total)

Country	Estimated Cumulative Utilized FDI: 1979-2014		Utilized FDI in 2014	
	Amount	% of Total	Amount	% of Total
Total	1,572.9	100.0	119.6	100.0
Hong Kong	768.5	48.9	85.7	71.7
British Virgin Islands*	111.8	7.1	NA	NA
Japan	98.7	6.3	4.3	3.6
United States	77.3	4.9	2.7	2.3
Taiwan	75.3	4.8	5.2	4.3
Singapore	73.1	4.6	5.9	4.9
South Korea	60.1	3.8	4.0	3.3

Source: Chinese Ministry of Commerce and Chinese Statistical Yearbook.

Notes: Ranked according to the top seven sources of FDI in China through 2014. * Data for the British Virgin Islands are through 2010. China's cumulative data are the sum of annual data and do not reflect disinvestment or current value.

Figure 13. Chinese Data on Annual U.S. FDI Inflows into China: 1985-2014
(\$ billions)



Source: Chinese Ministry of Commerce and Chinese Yearbook, various years.

Note: Chinese and U.S. data on bilateral FDI flows differ sharply because of different methodologies used.

China's Growing FDI Outflows

A key aspect of China's economic modernization and growth strategy during the 1980s and 1990s was to attract FDI into China to help boost the development of domestic firms. Investment by Chinese firms abroad was sharply restricted. However, in 2000, China's leaders initiated a new "go global" strategy, which sought to encourage Chinese firms (primarily SOEs) to invest overseas. One key factor driving this investment is China's massive accumulation of foreign exchange reserves. Traditionally, a significant level of those reserves has been invested in relatively safe, but low-yielding, assets, such as U.S. Treasury securities. On September 29, 2007, the Chinese government officially launched the China Investment Corporation (CIC) in an effort to seek more profitable returns on its foreign exchange reserves and diversify away from its U.S. dollar holdings. The CIC was originally funded at \$200 billion, making it one of the world's largest sovereign wealth funds.³⁶ Another factor behind the government's drive to encourage more outward FDI flows has been to obtain natural resources, such as oil and minerals, deemed by the government as necessary to sustain China's rapid economic growth.³⁷ Finally, the Chinese government has indicated its goal of developing globally competitive Chinese firms with their own brands. Investing in foreign firms, or acquiring them, is viewed as a method for Chinese firms to obtain technology, management skills, and often, internationally recognized brands, needed to help Chinese firms become more globally competitive. For example, in April 2005, Lenovo Group Limited, a Chinese computer company, purchased IBM Corporation's personal

³⁶ See CRS Report RL34337, *China's Sovereign Wealth Fund*, by Michael F. Martin.

³⁷ Chinese oil and mineral companies are dominated by SOEs.

computer division for \$1.75 billion.³⁸ Similarly, overseas FDI in new plants and businesses is viewed as developing multinational Chinese firms with production facilities and R&D operations around the world. According to U.N. data, China's annual FDI outflows rose from \$12.3 billion in 2005 to \$116 billion in 2014, an 843% increase (see **Figure 14**). According to U.N. estimates, China ranked as the third-largest source of global FDI in 2014 (at \$116 billion), up from sixth in 2011, (see **Figure 14**).³⁹ The stock of China's outward FDI through 2014 is estimated at \$646.3 billion.⁴⁰

China's FDI outflows by destination for 2013 (the most recent year country data are available) are listed in **Table 3**. These data indicate that the largest destinations of the stock total Chinese FDI through 2013 were Hong Kong (57.5% of total), the BVI, the Cayman Islands, the United States, and Australia. In terms of annual Chinese FDI outflows, the largest recipients of the flows in 2013 were Hong Kong (58.3% of total), the Cayman Islands, the United States, Australia, and Singapore. It seems highly likely that a significant level of Chinese FDI that goes to Hong Kong, the BVI, and the Cayman Islands is redirected elsewhere.⁴¹ Many analysts contend that a large share of FDI flows from China to Hong Kong represents "round tripping," where Chinese entities shift money to Hong Kong, but then re-invest the money in China.

Table 3. Major Destinations of Chinese Non-Financial FDI Outflows in 2013: Flows and Stock
(\$ billions)

Destination	FDI Flows in 2013	Stock of FDI through 2013	Share of FDI Stock through 2013 (%)
Total	107.8	660.5	—
Hong Kong	62.8	377.1	57.1
British Virgin Islands	3.2	33.9	5.1
Cayman Islands	9.3	42.3	6.4
United States	3.9	21.9	3.3
Australia	3.5	17.4	2.6
Singapore	2.0	14.8	2.2
United Kingdom	1.4	11.8	1.8

Source: Chinese Ministry of Commerce.

Note: Ranked according to the top seven destinations of the stock of Chinese FDI outflows through 2013.

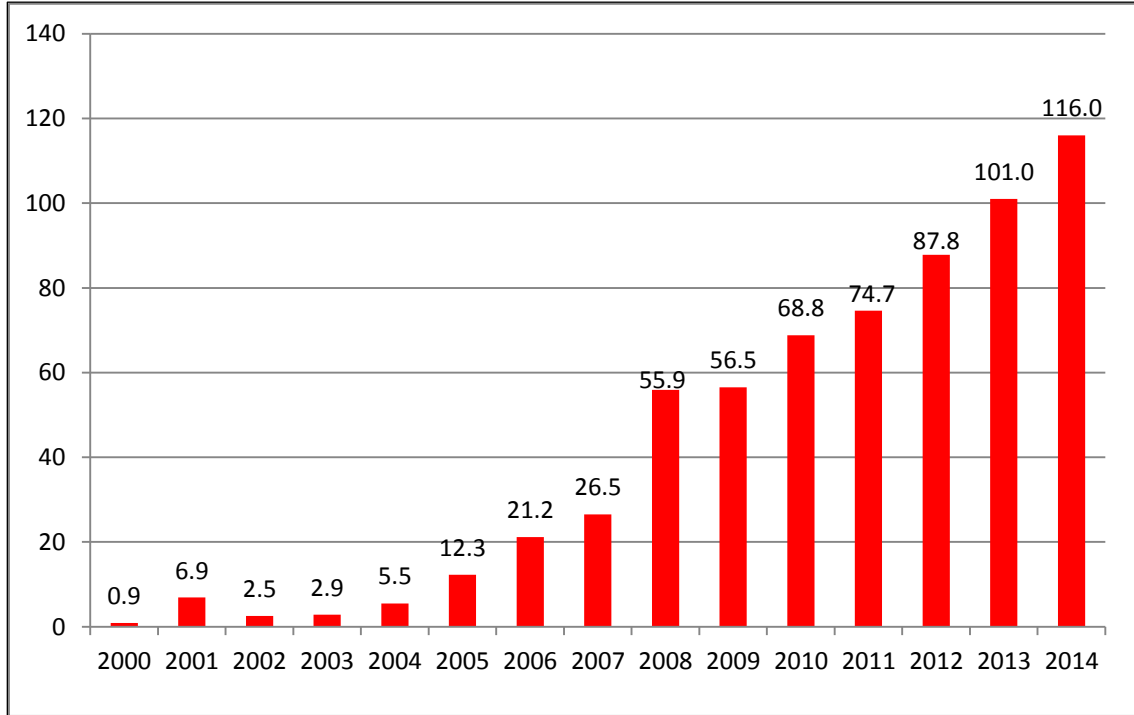
³⁸ The Chinese government is believed to be Lenovo's largest shareholder. For additional information on China's FDI flows to the United States, see CRS Report RL33536, *China-U.S. Trade Issues*, by Wayne M. Morrison.

³⁹ United Nations Conference on Trade and Development, *World Investment Report 2014*, July 3, 2014.

⁴⁰ United Nations Conference on Trade and Development.

⁴¹ Some share of FDI flows into Hong Kong from China may be profits from Hong Kong-invested firms on the mainland.

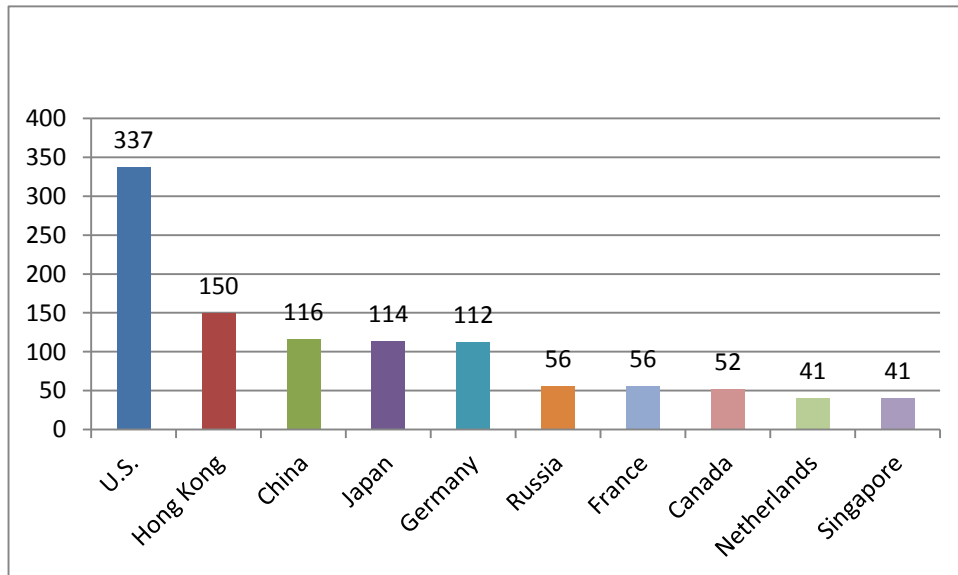
Figure 14. U.N. Estimates of Chinese Annual FDI Outflows: 2000-2014
(\$ billions)



Source: Data for 2000-2013 are estimates made by the United Nations. Data for 2014 are from the Chinese Ministry of Commerce and exclude FDI in financial assets.

Note: U.N. data on Chinese FDI differ from official Chinese data.

Figure 15. Major Sources of Global FDI Outflows in 2014
(\$ billions)



Source: United Nations, *Global Investment Trends Monitor*, May 18, 2015.

Note: U.N. FDI data differ from Chinese data.

China's Merchandise Trade Patterns

Economic reforms and trade and investment liberalization have helped transform China into a major trading power. Chinese merchandise exports rose from \$14 billion in 1979 to \$2.3 trillion in 2014, while merchandise imports grew from \$18 billion to nearly \$2.0 trillion (see **Table 4** and **Figure 16**). China's rapidly growing trade flows have made it an increasingly important (and often the largest) trading partner for many countries. According to China, it was the largest trading partner for 130 countries in 2013.⁴²

From 1990 to 2014, the annual growth of China's merchandise exports and imports averaged 18.0% and 16.6%, respectively (see **Figure 17**).⁴³ Over the past few years, China's trade has slowed significantly. In 2014, China's exports and imports grew by 6.0% and 0.7%, respectively. During the first nine months of 2015, China's exports and imports fell by 1.9% and 15.3%, respectively over the same period in 2014. The sharp drop in China's imports appears to have been caused in part by declining commodities prices (such as oil and ores).

China's merchandise trade surplus grew sharply from 2004 to 2008, rising from \$32 billion to \$297 billion. That surplus fell each year from 2009 to 2011, dropping to \$158 billion. However, China's trade surplus has risen in each of the past three years. That surplus was \$380 billion in 2014 and, based on current trends, could reach \$636 billion in 2015.

In 2009, China overtook Germany to become both the world's largest merchandise exporter and the second-largest merchandise importer (after the United States). In 2012, China overtook the United States as the world's largest merchandise trading economy (exports plus imports).⁴⁴ As indicated in **Figure 18**, China's share of global merchandise exports grew from 3.8% to 12.4%;⁴⁵ the World Bank projects this figure could increase to 20% by 2030.⁴⁶ Until recently, merchandise trade surpluses, large-scale FDI inflows, and large purchases of foreign currencies to maintain its exchange rate with the dollar and other currencies, were major contributors to China's accumulation of foreign exchange reserves, which stood at \$3.56 trillion as of August 2015, and were the world's largest reserves.⁴⁷

Table 4. China's Merchandise World Trade: 1979-2015*

(\$ billions)

Year	Exports	Imports	Trade Balance
1979	13.7	15.7	-2.0
1980	18.1	19.5	-1.4
1985	27.3	42.5	-15.3
1990	62.9	53.9	9.0

⁴² *China.org.cn*, "Promoting China-Japan relations through Culture," June 18, 2014, at http://www.china.org.cn/opinion/2014-06/18/content_32690843.htm.

⁴³ Chinese exports and imports dropped sharply in 2009 (over 2008 levels) because of the global economic slowdown. By 2010, China's trade had recovered and exceeded pre-crisis levels.

⁴⁴ In 2013, China became the largest trading economy for goods and services.

⁴⁵ Economist Intelligence Unit, *Data Tools*.

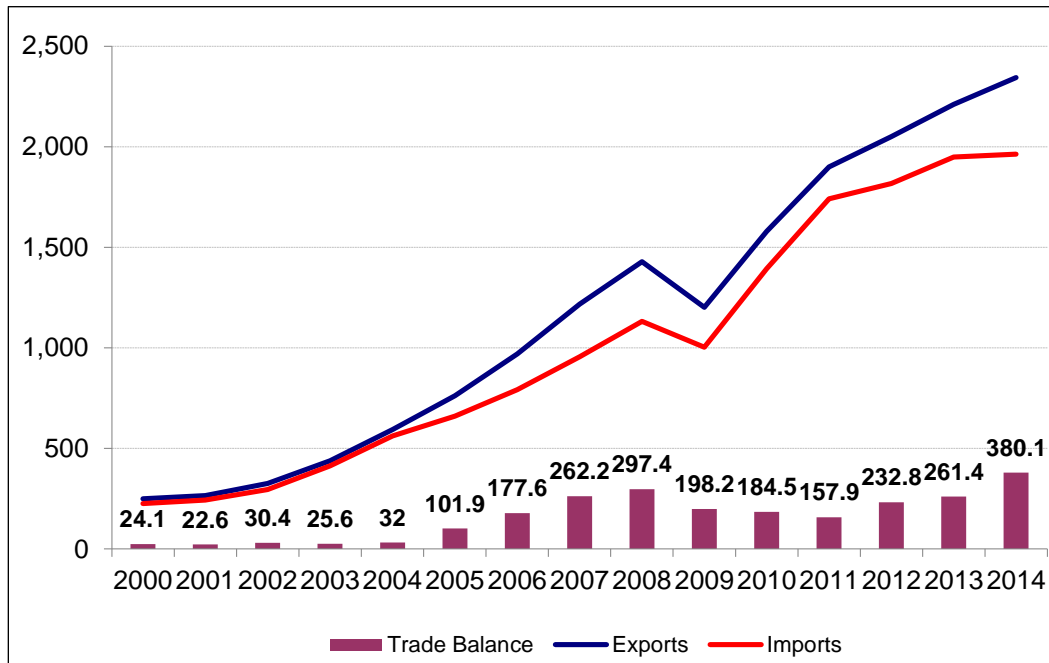
⁴⁶ The World Bank, *China 2030, Building a Modern, Harmonious, and Creative High-Income Society*, 2012, p. 14. Hereinafter referred to as World Bank, *China 2030*.

⁴⁷ China's foreign exchange reserves peaked at nearly \$4.0 trillion in August 2014.

Year	Exports	Imports	Trade Balance
1995	148.8	132.1	16.7
2000	249.2	225.1	24.1
2001	266.2	243.6	22.6
2002	325.6	295.2	30.4
2003	438.4	412.8	25.6
2004	593.4	561.4	32.0
2005	762.0	660.1	101.9
2006	969.1	791.5	177.6
2007	1,218.0	955.8	262.2
2008	1,428.9	1,131.5	297.4
2009	1,202.0	1,003.9	198.2
2010	1,578.4	1,393.9	184.5
2011	1,899.3	1,741.4	157.9
2012	2,050.1	1,817.3	232.8
2013	2,210.7	1,949.3	261.4
2014	2,343.2	1,963.1	380.1
2015 (est)*	2,298.7	1,662.7	636.0

Source: Global Trade Atlas. *2015 estimates based on actual data for January-August 2015.

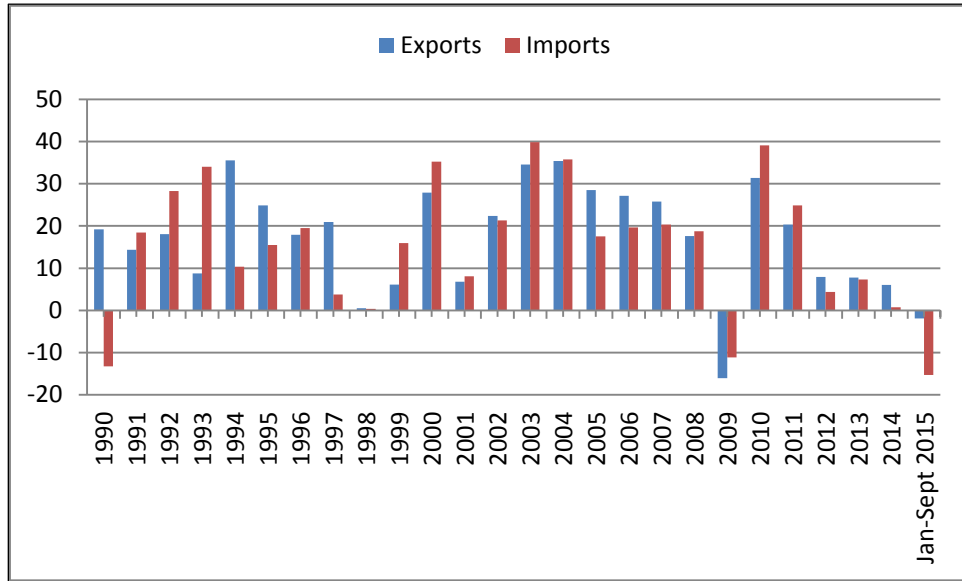
Figure 16. China's Merchandise Trade: 2000-2014
(\$ billions)



Source: World Trade Atlas.

Note: Chinese data often differ from those of its trading partners.

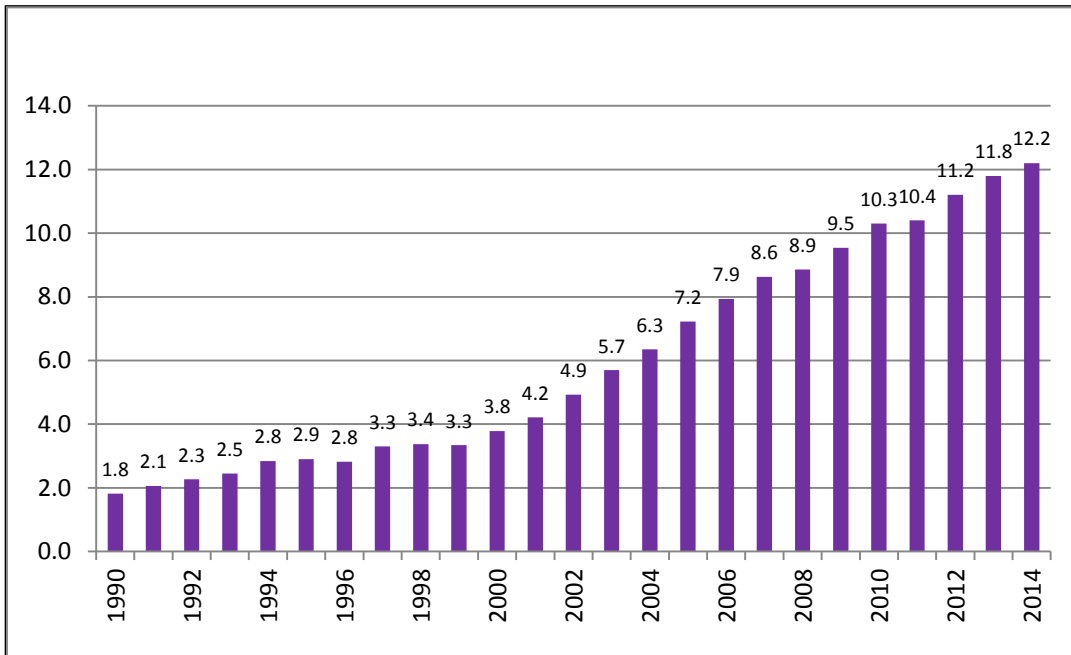
Figure 17. Annual Change in China's Merchandise Exports and Imports: 1990-2015*
(percent)



Source: *Global Trade Atlas* using official Chinese data.

Note: * Data for January-September 2015, year-on-year change.

Figure 18. China's Share of Global Merchandise Exports: 1990-2014
(percent)



Source: Economist Intelligence Unit.

China's Major Trading Partners

Table 5 lists official Chinese trade data on its seven largest trading partners in 2014 (based on total trade). These include the 28 countries that make up the European Union (EU28), the United States, the 10 nations that constitute the Association of Southeast Asian Nations (ASEAN), Hong Kong, Japan, South Korea, and Taiwan.⁴⁸ China's top three export markets were the United States, the EU28, and Hong Kong, while its top sources for imports were the EU28, ASEAN, and South Korea. According to Chinese data, it maintained large trade surpluses with Hong Kong (\$350 billion), the United States (\$243 billion), and the EU28 (\$127 billion), and reported large trade imbalances with Taiwan (\$106 billion) and South Korea (\$93 billion). China's trade data differ significantly from those of many of its trading partners. These differences appear to be largely caused by how China's trade via Hong Kong is counted in official Chinese trade data. China treats a large share of its exports through Hong Kong as Chinese exports to Hong Kong for statistical purposes, while many countries that import Chinese products through Hong Kong generally attribute their origin to China for statistical purposes, including the United States.⁴⁹

Table 5. China's Major Trading Partners in 2014

(\$ billions)

Country	Total Trade	Chinese Exports	Chinese Imports	China's Trade Balance
European Union	614.8	370.9	243.9	127.0
United States	549.2	396.1	153.1	243.0
ASEAN	479.8	271.7	208.1	63.6
Hong Kong	376.1	362.2	12.9	350.3
Japan	312.2	149.5	162.7	-12.2
South Korea	293.7	100.4	193.3	-92.9
Taiwan	198.6	46.3	152.3	-106.0

Sources: *Global Trade Atlas* and *World Trade Atlas*.

Notes: Rankings according to China's total trade in 2014. China's bilateral trade data often differ from that of its trading partners.

Major Chinese Trade Commodities

China's abundance of low-cost labor has made it internationally competitive in many low-cost, labor-intensive manufactures. As a result, manufactured products constitute a significant share of China's trade. A substantial amount of China's imports is comprised of parts and components that are assembled into finished products, such as consumer electronic products and computers, and then exported. Often, the value-added to such products in China by Chinese workers is relatively small compared to the total value of the product when it is shipped abroad.

China's top 10 exports and imports in 2014 are listed in **Table 6** and **Table 7**, respectively, using the harmonized tariff system (HTS) on a two-digit level. Major exports included electrical

⁴⁸ ASEAN members include Brunei, Cambodia, Indonesia, Laos, Malaysia, Myanmar (Burma), the Philippines, Singapore, Thailand, and Vietnam.

⁴⁹ See CRS Report RS22640, *What's the Difference?—Comparing U.S. and Chinese Trade Data*, by Michael F. Martin.

machinery,⁵⁰ machinery (including computers), furniture and bedding, and knit apparel, while major imports included electrical machinery, mineral fuel, machinery, and ores.

Table 6. Major Chinese Exports: 2014
(\$ billions)

HS Code	Description	\$ Billions	Percent of Total Exports	2014/2013 % Change
85	Electrical machinery	571	24.4%	1.7%
84	Machinery	401	17.1%	4.7%
94	Furniture and bedding	93	4.0%	8.1%
61	Knit apparel	92	3.9%	-5.0%
62	Woven apparel	81	3.5%	19.3%
90	Optical, photographic, cinematographic, measuring checking, precision, medical or surgical instruments and apparatus; parts and accessories thereof	74	3.2%	-0.9%
39	Plastics	67	2.9%	8.2%
87	Vehicles, except railway (mainly auto parts, motorcycles, trucks, and bicycles)	64	2.7%	9.6%
71	Precious stones and metals	63	2.7%	26.2%
73	Iron and steel products	61	2.6%	5.8%

Source: *World Trade Atlas*, using official Chinese statistics.

Note: Top 10 exports in 2014, two-digit level, harmonized tariff system.

⁵⁰ This includes electrical machinery and equipment and parts thereof; sound recorders and reproducers, television image and sound recorders and reproducers, and parts and accessories of such articles.

Table 7. Major Chinese Imports: 2014
(\$ billions)

HS Code	Description	\$ billions	Percent of Total Imports	2014/2013 % change
85	Electrical machinery	425	21.7%	-3.2%
27	Mineral fuel, oil etc.	317	16.1%	0.7%
84	Machinery	180	9.2%	5.3%
26	Ores, slag, and ash	136	6.9%	-8.1%
90	Optical, photographic, cinematographic, measuring, checking, precision, medical or surgical instruments and apparatus; parts and accessories thereof	106	5.4%	-1.8%
87	Vehicles, not railway (mainly autos and parts)	89	4.6%	20.7%
98	Special Classification	83	4.2%	-20.9%
39	Plastics	75	3.8%	3.9%
29	Organic chemicals	61	3.1%	-7.6%
74	Copper and articles thereof	48	2.4%	-5.4%

Source: *World Trade Atlas*, using official Chinese statistics.

Note: Top 10 imports in 2014, two-digit level, harmonized tariff schedule.

China's Regional and Bilateral Free Trade Agreements

The Chinese government has maintained an active policy of boosting trade and investment ties around the world, especially with countries in Asia.⁵¹ To that end, China has entered into a number of regional and bilateral trade agreements, or is in the process of doing so. China currently has free trade agreements (FTAs) with ASEAN, Australia, Chile, Costa Rica, Hong Kong, Iceland, Macau, New Zealand, Pakistan, Peru, Singapore, and Switzerland. China also has an “economic cooperation framework agreement” (ECFA) with Taiwan, which is the equivalent to an FTA. China is currently in the process of negotiating FTAs with the Cooperation Council for the Arab States of the Gulf (which includes Saudi Arabia, Kuwait, the United Arab Emirates, Qatar, and Bahrain), Norway, and the Southern African Customs Union (which includes South Africa, Botswana, Lesotho, Namibia, and Swaziland), Sri Lanka, Japan, and South Korea.⁵² China has also considered negotiating FTAs with India, Columbia, Moldova, and Maldives.

In December 2012, China joined with the 10 members of ASEAN, Japan, South Korea, Australia, and New Zealand to begin negotiations toward a Regional Comprehensive Economic Partnership (RCEP), which, if concluded, could constitute the world's largest free trade bloc (in terms of combined population and GDP).⁵³ In November 2014, during the Asia-Pacific Economic

⁵¹ The Chinese government states that it deems FTAs as “a new platform to further opening up to the outside and speeding up domestic reforms, and speeding up domestic reforms, an effective approach to integrate into global economy and strengthen economic cooperation with other economies, as well as particularly an important supplement to the multilateral trading system.”

⁵² China has held individual FTA talks with South Korea and Japan with the goal of a forming a trilateral FTA. China is also negotiating with ASEAN for an upgraded FTA.

China is also negotiating with ASEAN

⁵³ The RCEP countries combined have 3 billion people and total GDP of \$17 trillion.

Cooperation (APEC) summit in Beijing, Chinese President Xi called for renewed efforts to achieve a Free Trade Area of the Asia-Pacific (FTAAP) agreement, an idea that was first proposed over a decade ago. China has also expressed interest in joining the Trans-Pacific Partnership (TPP) negotiations, a proposed FTA that currently includes the United States and 11 other countries.⁵⁴

Major Long-Term Challenges Facing the Chinese Economy

China's economy has shown remarkable growth over the past several years, and many economists project that it will enjoy fairly healthy growth in the near future. However, economists caution that these projections are likely to occur only if China continues to make major reforms to its economy. Failure to implement such reforms could endanger future growth. They note that China's current economic model has resulted in a number of negative economic (and social) outcomes, such as over-reliance on fixed investment and exporting for its economic growth, extensive inefficiencies that exist in many sectors (due largely to government industrial policies), wide-spread pollution, and growing income inequality, to name a few. Many of China's economic problems and challenges stem from its incomplete transition to a free market economy and from imbalances that have resulted from the government's goal of economic growth at all costs.

China's Incomplete Transition to a Market Economy

Despite China's three-decade history of widespread economic reforms, Chinese officials contend that China is a "socialist-market economy." This appears to indicate that the government accepts and allows the use of free market forces in a number of areas to help grow the economy, but the government still plays a major role in the country's economic development.

Industrial Policies and SOEs

According to the World Bank, "China has become one of the world's most active users of industrial policies and administrations."⁵⁵ China's SOEs may account for up of 50% of non-agriculture GDP.⁵⁶ In addition, although the number of SOEs has declined sharply, they continue to dominate a number of sectors (such as petroleum and mining, telecommunications, utilities, transportation, and various industrial sectors); are shielded from competition; are the main sectors encouraged to invest overseas; and dominate the listings on China's stock indexes.⁵⁷ One study

⁵⁴ On the one hand, Chinese official news media has often criticized the TPP as an effort to economically isolate China. However, in recent years, China's media has indicated that the Chinese government may be interested in joining the TPP. For example, in May 2013, Xinhua News Agency reported that the Chinese government "would study the possibility of joining the Trans-Pacific Partnership (TPP) on the basis of equality and mutual benefit, and that "China hoped to exchange information and materials with TPP members on the negotiations."

⁵⁵ The World Bank, *China: 2030*, p. 114.

⁵⁶ U.S.-China Economic and Security Review Commission, *An Analysis of State-owned Enterprises and State Capitalism in China*, by Andrew Szamosszegi and Cole Kyle, October 26, 2011, p. 1.

⁵⁷ The nature of China's SOEs has become increasingly complex. Many SOEs appear to be run like private companies. For example, a number of SOEs have made initial public offerings in China's stock markets and those in other countries (including the United States), although the Chinese government is usually the largest shareholder. It is not clear to what extent the Chinese government attempts to influence decisions made by the SOE's which have become shareholding companies.

found that SOEs constituted 50% of the 500 largest manufacturing companies in China and 61% of the top 500 service sector enterprises.⁵⁸ It is estimated that there were 154,000 SOEs as of 2008, and while these accounted for only 3.1% of all enterprises in China, they held 30% of the value of corporate assets in the manufacturing and services sectors.⁵⁹ Of the 95 Chinese firms on the 2014 *Fortune* Global 500 list, 82 were identified as having government ownership of 50% or more.⁶⁰ The World Bank estimates that more than one in four SOEs lose money.⁶¹

A Weak Banking Sector and Growing National Debt

China's banking system is largely controlled by the central government, which attempts to ensure that capital (credit) flows to industries deemed by the government to be essential to China's economic development. SOEs are believed to receive preferential credit treatment by government banks, while private firms must often pay higher interest rates or obtain credit elsewhere. According to one estimate, SOEs accounted for 85% (\$1.4 trillion) of all bank loans in 2009.⁶² In addition, the government sets interest rates for depositors at very low rates, often below the rate of inflation, which keeps the price of capital relatively low for firms.⁶³ It is believed that oftentimes SOEs do not repay their loans, which may have saddled the banks with a large amount of nonperforming loans. Some contend these measures could further add to the amount of nonperforming loans held by the banks. Many analysts contend that one of the biggest weaknesses of the banking system is that it lacks the ability to ration and allocate credit according to market principles, such as risk assessment.

Local government debt is viewed as a growing problem in China, largely because of the potential impact it could have on the Chinese banking system. During the beginning of the global financial slowdown, many Chinese subnational government entities borrowed extensively to help stimulate local economies, especially by supporting infrastructure projects. In December 2013, the Chinese National Audit Office reported that from the end of 2010 to mid-year 2013, local government debt had increased by 67% to nearly \$3 trillion.⁶⁴

A 2015 report by the McKinsey Global Institute (MGI) stated that high debt levels are prevalent throughout the Chinese economy (especially the corporate sector), and that the combined debt of Chinese corporations, government, households, and financial institutions China's total debt rose from \$7 trillion in 2007 to \$28 trillion by mid-2014. China's debt as of mid-2014 was equivalent to 282% of China's GDP, which was higher than the total U.S. level of 269% of GDP.⁶⁵ The report indicated that the rapid increase in China's debt levels was largely caused by real estate and shadow banking loans.⁶⁶ While many analysts contend that the Chinese government has the

⁵⁸ Xiao Geng, Xiuke Yang, and Anna Janus, *State-owned Enterprises in China, Reform Dynamics and Impacts*, 2009, p. 155.

⁵⁹ The World Bank, *State-Owned Enterprises in China: How Big Are They?*, January 19, 2010.

⁶⁰ *Fortune*, *Global 500, 2014*, available at <http://fortune.com/global500/>.

⁶¹ World Bank, *China 2030: Building a Modern, Harmonious, and Creative Society*, February 2012, p. 25.

⁶² *The Economist*, *State Capitalism's Global Reach, New Masters of the Universe, How State Enterprise is Spreading*, January 21, 2012, available at <http://www.economist.com/node/21542925>.

⁶³ Some economists argue that a significant portion of China's SOEs could not stay in business if they had to pay a market-based interest rate for credit.

⁶⁴ *The Wall Street Journal*, *Xi Faces Test over China's Local Debt; Risks From Debt are Still Controllable, Audit Office Says*, December 30, 2013.

⁶⁵ The breakdown of Chinese debt by sector as a percent of GDP was as follows: non-financial corporations (125%), financial institutions (65%), government (55%), and households (38%).

⁶⁶ MGI, *Debt and (not Much) Deleveraging*, February 2015, available at <http://www.mckinsey.com/insights/> (continued...)

resources to intervene to stem a potential economic crisis caused by China's high debt levels, others warn that the rapid increase in debt is unsustainable and argue that much of the debt incurred may have involved wasteful spending on projects that will likely do little to enhance future economic growth.

Many economists blame China's closed capital account for a much of China's debt problems. The Chinese government has maintained restrictions on capital inflows and outflows for many years, in part to control the exchange of its currency, the renminbi (RMB), against the dollar and other currencies in order to boost exports. Many argue the Chinese government's restrictions on capital flows has greatly distorted financial markets in China, preventing the most efficient use of capital, such as over-investment in some sectors (such as real estate) and under-investment in others (such as services).

An Underdeveloped Financial System: China's Stock Exchanges

Despite extensive reforms over the past three decades, many parts of China's financial system are inefficient due largely to restrictions on market forces. China's stock market system is a good example of this. China's two stock exchanges, the Shanghai Stock Exchange and the Shenzhen Stock Exchange, are the world's third- and fifth-largest stock exchanges, respectively, based on domestic capitalization as of mid-June. Only domestic Chinese firms are these exchanges, many of which are SOEs. Both stock exchanges have experienced significant volatility. According to a study by the Brookings Institution, this is largely because the markets are dominated by speculators to a far greater extent than in Western nations. Chinese shareholders generally have very little influence over the companies they are investing in and thus they place less reliance on underlying firm value and focus more on likely stock price movements in the short run.⁶⁷

From January 5 to June 12, 2015, the Shanghai and Shenzhen indexes surged by 54% and 119% respectively, and on a year-on-year (YoY) basis, they were up by 141% and 132%, respectively—a situation the International Monetary Fund stated was “obviously a stock market bubble.” Many Chinese investors were buying stocks on margin (i.e., borrowing money to buy stocks). The bubble began to burst in early June. From June 12, 2015, to July 7, 2015, China's two stock indexes fell by 32% and 40%, respectively, resulting in capitalization losses of \$3.6 trillion (\$1.9 billion and \$1.7 trillion), nearly the size of Germany's economy and equivalent to 35% of GDP. This caused the Chinese government to intervene to halt the slide, such as by suspending initial public offerings, relaxing rules for insurance companies buying stocks, prohibiting state-owned companies from selling their shareholdings, and making funds available to brokerages in order to purchase equities.⁶⁸ According to one estimate, the Chinese government may have spent \$235 billion to stabilize the markets. Chinese authorities also reportedly have launched investigations, arrested a number of individuals for market manipulation, blamed foreign speculators for the crisis, and pressured one Chinese journalist to “confess” to causing panic and chaos in China's stock markets.⁶⁹

(...continued)

economic_studies/debt_and_not_much_deleveraging#.

⁶⁷ The Brookings Institution, *the Chinese Financial System: An Introduction and Overview*, by Douglas J. Elliott and Kai Yan, July 2013, p.4.

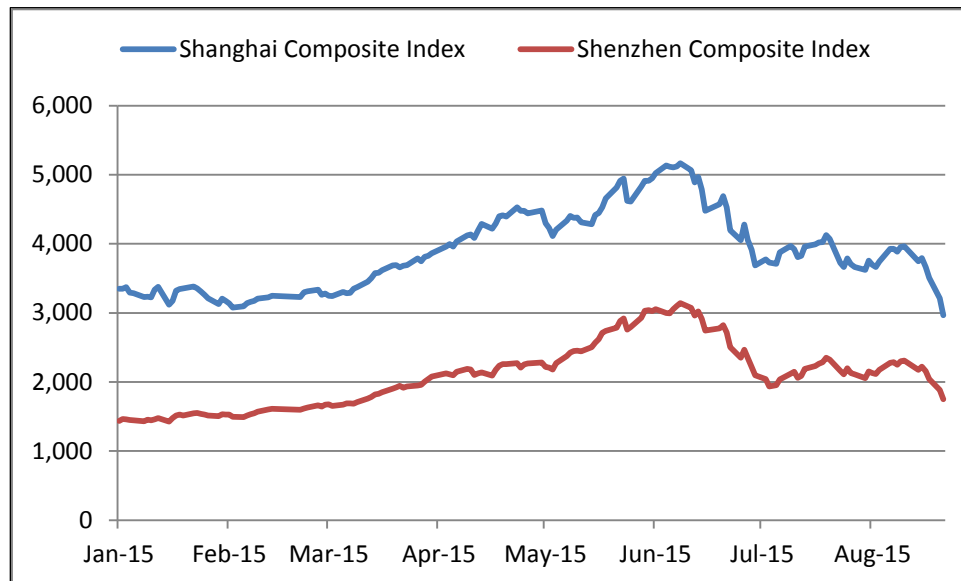
⁶⁸ Oxford Analytica, *Stock Market Moves Will Not Shake Beijing's Resolve*, July 10, 2015, available at <https://www.oxan.com/display.aspx?ItemID=DB200891>.

⁶⁹ The Washington Post, *China Pins Market Plunge on Financial Journalist, Airs "Confession,"* August 31, 2015

Both the SSE and the SZSE regained some stability in the wake of the government intervention, but begun to experience sharp losses again beginning around mid-August. From August 14 to August 25, 2015, the SEE and SZSE declined by 25.2% and 24.2%, respectively (see **Figure 19**). From June 12 to August 25, 2015, combined market capitalization losses by the SEE and SZSE totaled approximately \$5 trillion, essentially wiping out most of the gains made in the first half of 2015.

According to a Brookings Institution report, China's stock markets are more heavily affected by speculative investment than markets in Western countries. This situation exists in part because shareholders in Chinese markets generally have less influence over companies than their Western counterparts and so focus more on short-term movements in stock prices.⁷⁰ Chinese stock exchanges are also dominated by individuals (retail investors), who total 200 million and account for an estimated 85% of market trades. Reportedly, more than 30 million new trading accounts were added during the first five months of 2015. Many of these investors reportedly bought stocks on margin (i.e., using borrowed money), betting that stock prices would continue to rise. While many economists saw the decline in China's stock markets to be a normal correction, many raised concerns over how the Chinese government handled the crisis and over its commitment to enhancing free market reforms.

Figure 19. Changes in the Shanghai and Shenzhen Stock Exchange Composite Indices at Close: January 5, 2015-August 25, 2015



Source: Yahoo Finance.

Large Internal Imbalances of Savings, Fixed Investment, and Consumption

Many economists contend that China's economic model has produced large internal imbalances, characterized by high savings and fixed investment and relatively low private consumption, which may no longer be sustainable. As indicated in **Figure 20**, from 1990 to 2014, Chinese gross

⁷⁰ The Brookings Institute, *the Chinese Financial System, an Introduction and Overview*, by Douglas J. Elliott and Kai Yan, 2013, available at <http://www.brookings.edu/~media/research/files/papers/2013/07/01-chinese-financial-system-elliott-yan/chinese-financial-system-elliott-yan.pdf>.

savings as a percent of GDP and gross fixed investment as a percent of GDP both increased significantly, while private consumption as a percent of GDP declined sharply.⁷¹ In addition, as indicated in **Figure 21**, personal disposable income in China as a share of GDP was lower in 2014 (44.0%) than it was in 2000 (47.9%).⁷² China's gross savings as a percent of GDP and gross fixed investment as a percent of GDP are the highest among any of the world's largest economies, while China's private consumption as a share of GDP is among the lowest.⁷³ These data would imply that Chinese households have not benefited as much from China's economic growth as other sectors of the economy.

Many economists contend that the falling share of private consumption and disposable income relative to GDP is largely caused by two main factors: China's banking policies and the lack of an adequate social safety net. The Chinese government places restrictions on the export of capital. As a result, Chinese households put a large share of their savings in domestic banks. The Chinese government sets the interest rate on deposits. Often this rate is below the rate of inflation, which lowers household income. Some economists consider this policy to constitute a transfer of wealth from Chinese households to Chinese firms which benefit from low interest rates. This "tax" on household income negatively affects household consumption. Secondly, China's lack of an adequate social safety net (such as pensions, health care, unemployment insurance, and education) induces households to save a large portion of their income. According to one estimate, between 1982 and 2012, the average urban household saving rate rose from 12% to 32%.⁷⁴ Corporations are also a major contributor to the high savings rate in China. Many Chinese firms, especially SOEs, do not pay out dividends and thus are able to retain most of their earnings. Many economists contend that requiring the SOEs to pay dividends could boost private consumption in China if the money was then used to help fund social welfare programs. Chinese economic policies have resulted in gross fixed investment being the main engine of the country's economic growth for every year from 2000 to 2014. (In 2011 gross fixed investment and private consumptions each accounted for 3.0 percentage points; see **Figure 20**.)⁷⁵

A 2009 IMF report estimated that fixed investment related to tradable goods plus net exports together accounted for over 60% of China's GDP growth from 2001 to 2008 (up from 40% from 1990 to 2000), which was significantly higher than in the G-7 countries (16%), the euro area (30%), and the rest of Asia (35%).⁷⁶ The global financial crisis led to a sharp fall in demand for Chinese exports, which helped sharply reduce China's trade surpluses. The Chinese government responded in part by sharply increasing spending on fixed investment. As a result, fixed investment as a share of GDP rose from 40.5% in 2008 to 45.9% in 2013.

⁷¹ Over the past few years, savings as a percent of GDP has fallen (from 52.1% in 2010 to 48.6% in 2014), while private consumption has risen from 34.9% to 36.8%). However, fixed investment as a percent of GDP has returned near its historic highs.

⁷² Source: Economist Intelligence Unit.

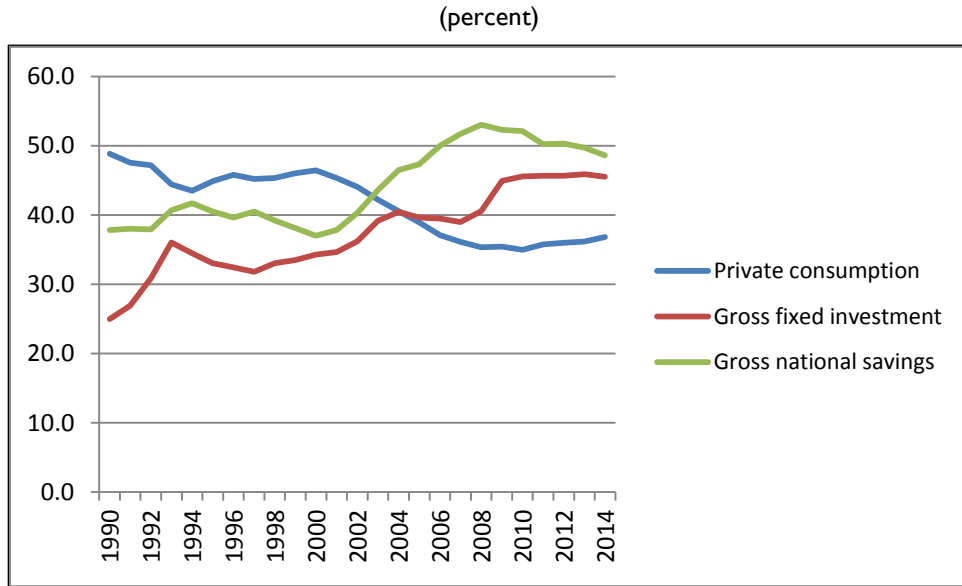
⁷³ Chinese private consumption as a percent of GDP in 2013 was 36.4%. Rates for other countries include the United States (at 68.3%), Brazil (62.9%), Japan (61.4%), Germany (57.6%), India (56.1%), and Russia (51.3%). Source: EIU.

⁷⁴ London School of Economic, *The One-Child Policy and Household Savings*, LSE working papers, September 18, 2014, p. 1. The authors contend that China's one child policy is largely the cause of the rise in household savings,

⁷⁵ The last time private consumption was the largest contributor to GDP was 1999.

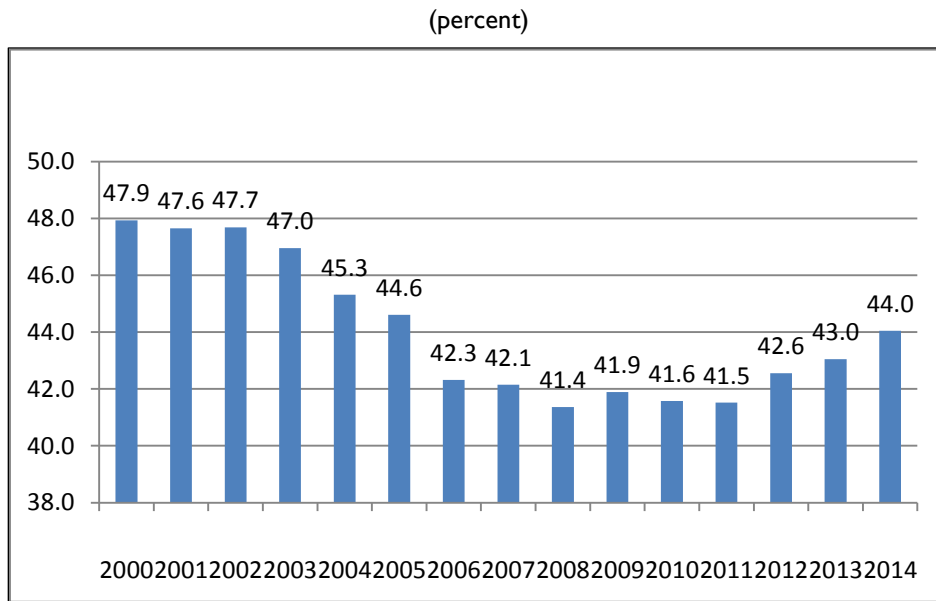
⁷⁶ Guo, Kai and Papa N'Diaye, *Is China's Export-Oriented Growth Sustainable*, IMF Working Paper, August 2009

Figure 20. Chinese Gross Savings, Gross Fixed Investment, and Private Consumption as a Percent of GDP: 1990-2014



Source: Economist Intelligence Unit.

Figure 21. Chinese Disposable Personal Income as a Percent of GDP: 2000-2014

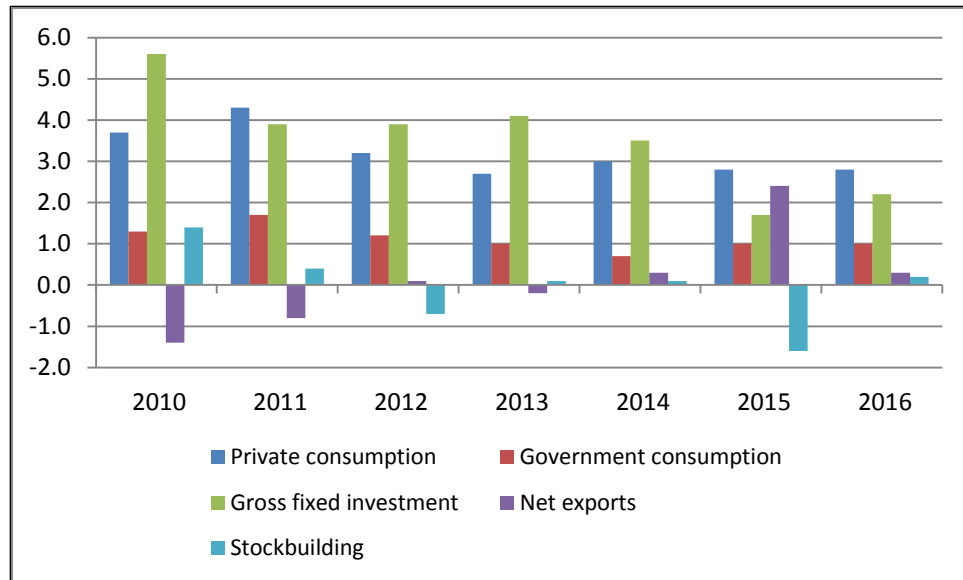


Source: Economist Intelligence Unit.

Some Indicators of Rebalancing

Some rebalancing of China's economy may have occurred in recent years. For the past several years, gross fixed investment (some of which is linked to tradable sectors) has generally been the largest contributor to China's real GDP growth. EIU projects that private consumption will be the largest contributor of real GDP in 2015 and 2016 (see **Figure 22**).

Figure 22. Sources of Chinese GDP Growth: 2010-2014 and Projections for 2015-2016: Percentage Points



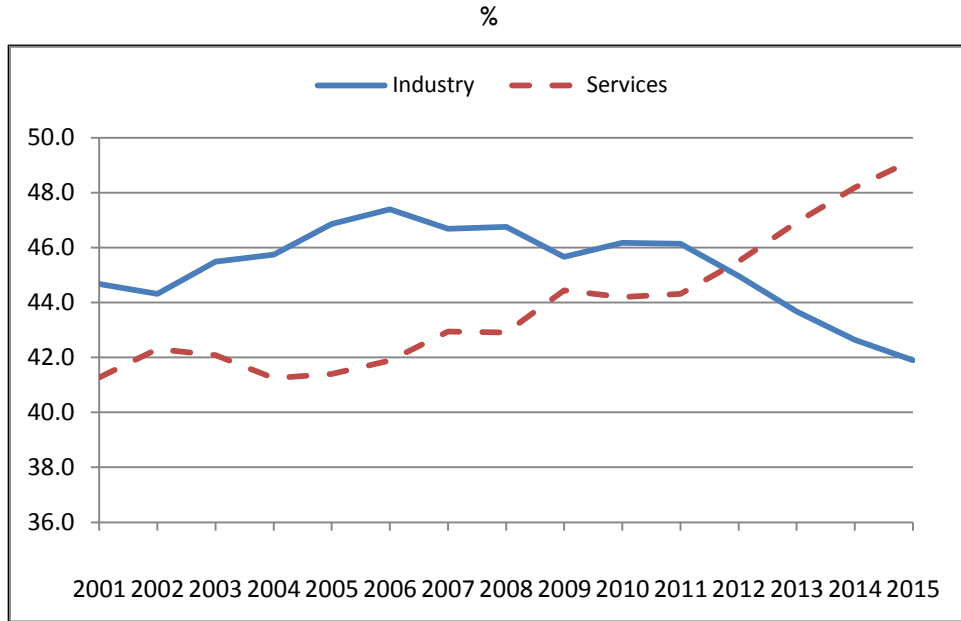
Source: Economist Intelligence Unit.

Another useful indicator is the broad sector composition of China's GDP (i.e., agriculture, industry, and services), referred to as gross value added at factor cost, the output of industry has surpassed that of services for many years. For example, output by industry as a percent of GDP in 2005 was for 46.9% compared to services at 41.4%.⁷⁷ In 2012, services output overtook industrial output for the first time and have grown in importance through 2014. The EIU projects that in 2015, output of services in China as a share of GDP will total 49.2% compared to 41.9% for industry (see **Figure 23**).⁷⁸

⁷⁷ Agriculture accounted for 11.7%.

⁷⁸ In comparison, output by U.S. services has exceeded that of U.S. industry each year going back as far as 1980, according to EIU. In 2015, U.S. services output as a percent of GDP is projected to be 77.6%, compared to 20.8% for industry.

Figure 23. Value-Added of Chinese Industry and Services at Factor Cost as a Percent of GDP: 2001-2015*



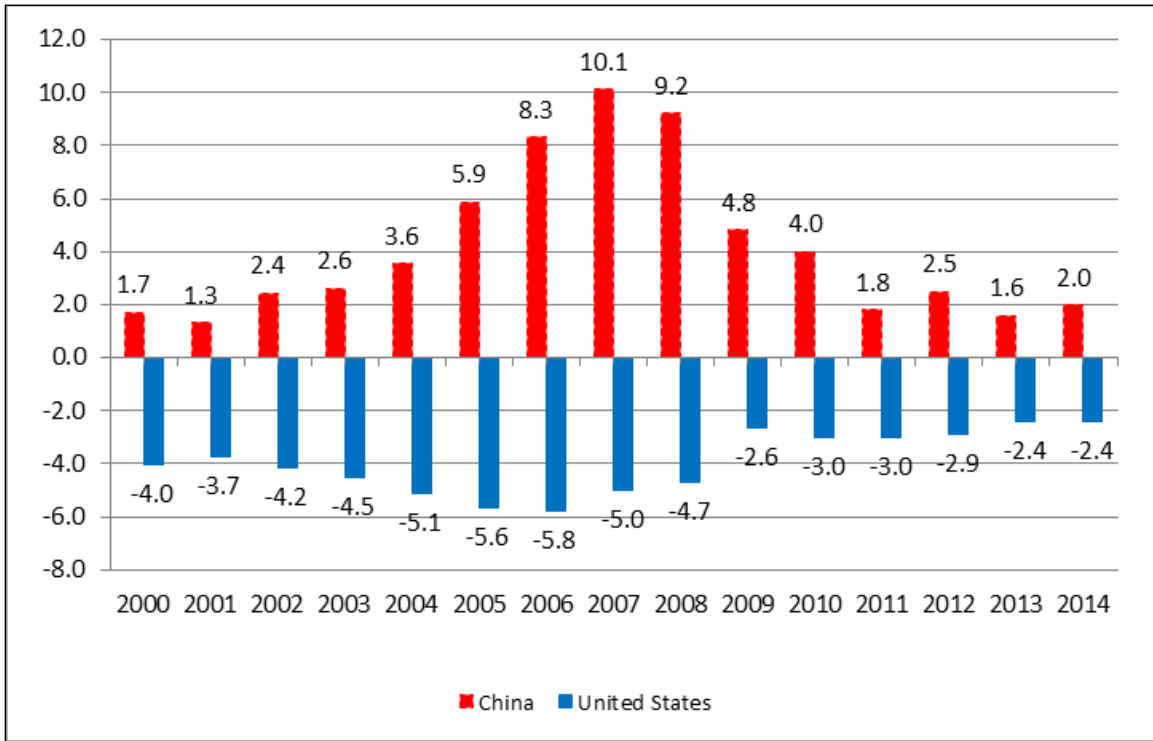
Source: EIU.

Notes: *Data for 2015 are projections. Industry includes mining, quarrying, manufacturing, construction and utilities.

China's current account (CA) balance as a percent of GDP (a measurement that reflects the size of trade balances savings/investment relative to the size of the economy) has also changed sharply in recent years. China has run CA surpluses every year since 1994. From 2001 to 2007, China's CA surpluses as a percent of GDP rose from 1.3% to 10.1% (see **Figure 24**). Since this time, China's CA surplus as a percent of GDP has fallen sharply, reaching 2.1% in 2014. Much of that decline was likely caused by the effects of the global economic slowdown that began in 2008, which sharply reduced foreign demand for Chinese exports. However, some of the decline may also have been the result of increased Chinese private consumption. As indicated in **Figure 25**, the growth of Chinese private consumption over the past 10 years has among the fastest of any major economy, averaging 8.9% annually compared with 1.8% for the United States.

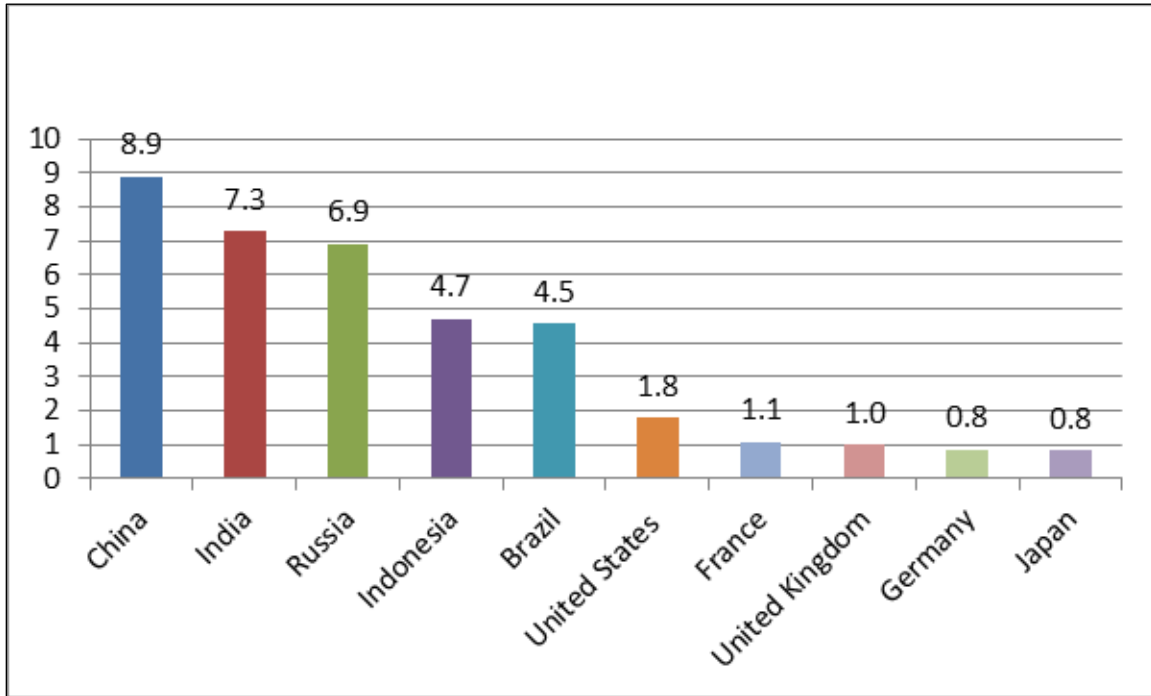
Figure 24. Current Account Balances as a Percent of GDP for China and the United States: 2000-2014

(percent)



Source: International Monetary Fund, *World Economic Outlook Database*, July 2015.

Figure 25. Average Annual Growth in Private Consumption: 2005-2014
(percent)



Source: Economist Intelligence Unit.

Environmental Challenges

China's economic growth model has emphasized the growth of heavy industry in China, much of which is energy-intensive and high polluting. The level of pollution in China continues to worsen, posing serious health risks to the population. The Chinese government often disregards its own environmental laws in order to promote rapid economic growth. China's environmental challenges are illustrated by the following incidents and reports:

- A 2014 OECD report estimated the health costs of China's air pollution in 2010 at \$1.4 trillion.⁷⁹
- The U.S. Embassy in Beijing, which monitors and reports air quality in China based on an air quality index of particle matter (developed by the U.S. Environmental Protection Agency) considered to pose a health concern, reported that the air quality in Beijing for a majority of the days in January 2013 ranged from "unhealthy" to "hazardous" (based on 24-hour exposure) and, on a few days, it recorded high readings that were "beyond index."⁸⁰ The level of poor air quality in Beijing was termed by some in China as "Airpocalypse," and reportedly forced the government to shut down some factories and reduce the

⁷⁹ OECD, *the Cost of Air Pollution: Health Impacts of Road Transportation*, 2014, p. 12.

⁸⁰ Hazardous is the worst category for air quality used by the U.S. embassy, based on a numerical value of its index ranging from 301 to 500. A measurement of below 50 is considered good. On several occasions, the air quality index in Beijing has surpassed 500, and on January 12, 2013, it reportedly hit 755.

level of official cars on the road.⁸¹ On December 9, 2013, China's media reported that half of China was blanketed by smog.⁸² The U.S. Consulate General in Shanghai reported that there were a number of days in December 2013 where its measurement of the air quality in Shanghai was hazardous or very unhealthy, and during some time periods on December 5, 2013, its readings were "beyond index."

- In February 2013, China's Geological Survey reportedly estimated that 90% of all Chinese cities had polluted groundwater, with two-thirds having "severely polluted" water.⁸³
- According to a 2012 report by the Asian Development Bank, less than 1% of the 500 largest cities in China meet the air quality standards recommended by the World Health Organization, and 7 of these are ranked among the 10 most polluted cities in the world.⁸⁴
- The U.S. Energy Information Administration (EIA) projected in 2011 that by 2035, China's carbon dioxide emissions (CO₂) could be nearly double its current levels.⁸⁵ A study by ExxonMobil projects that, by 2030, China's CO₂ emissions could equal the level in the United States and EU combined.⁸⁶
- The World Health Organization estimated that air pollution in China caused the death of 470,649 people in 2008.⁸⁷

The Chinese government has sharply criticized foreign governments for reporting air quality in China, calling their readings inaccurate and complaining that releasing such data violates international conventions and Chinese laws.⁸⁸ At the same time, China's media has boosted its reporting of China's environmental problems in response to public anger, prompting central government officials to promise new steps to reduce emissions. However, the central government has often found it difficult to induce SOEs and local governments to comply with environmental laws, especially when such officials feel doing so will come at the expense of economic growth.

On August 12, 2015, a series of large explosions in several warehouses containing chemicals occurred in the Chinese port city of Tianjin, which has claimed the lives of at least 163 people. Some press reports have blamed poor government enforcement of environmental regulations for the disaster. For example, some in China have questioned why dangerous chemicals were warehoused so close to residential areas and have raised concerns over the extent of chemical contamination in the area that may have resulted from the explosions.⁸⁹

⁸¹ National Public Radio, "Beijing's 'Airpocalypse' Spurs Pollution Controls, Public Pressure," January 14, 2013.

⁸² *Xinhua*, December 9, 2013.

⁸³ *New York Times*, "Concerns Grow About 'Severely Polluted' Water in China's Cities," February 20, 2013.

⁸⁴ The Asian Development Bank, *Toward an Environmentally Sustainable Future, Country Environmental Analysis of the People's Republic of China*, 2012, p. xviii.

⁸⁵ EIA, *International Energy Outlook*, September 19, 2011, available at <http://www.eia.gov/forecasts/ieo>.

⁸⁶ ExxonMobil, *The Outlook for Energy, A View to 2030*, December 29, 2009, p. 4.

⁸⁷ World Health Organization chart at http://gamapserver.who.int/gho/interactive_charts/phe/oap_mbd/atlas.html.

⁸⁸ See *Xinhua*, "Foreign Embassies' Air Data Issuing Inaccurate, Unlawful: Official," June 5, 2012, at http://news.xinhuanet.com/english/china/2012-06/05/c_131633044.htm.

⁸⁹ The Wall Street Journal, "Tianjin Explosion Erodes Faith in Leadership for Many in China," August 20, 2015, available at <http://www.wsj.com/articles/blast-erodes-faith-in-leadership-for-many-in-china-1440094622>.

Corruption and the Relative Lack of the Rule of Law

The relative lack of the rule of law in China has led to widespread government corruption, financial speculation, and misallocation of investment funds. In many cases, government “connections,” not market forces, are the main determinant of successful firms in China. Many U.S. firms find it difficult to do business in China because rules and regulations are generally not consistent or transparent, contracts are not easily enforced, and intellectual property rights are not protected (due to the lack of an independent judicial system). The relative lack of the rule of law and widespread government corruption in China limit competition and undermine the efficient allocation of goods and services in the economy. A *New York Times* article reported that (former) Chinese Premier Wen Jiabao’s family controlled assets worth at least \$2.7 billion.⁹⁰ One study estimates that between 2001 and 2010, China was the world’s largest source of illicit capital outflows at \$3.8 trillion.⁹¹ A 2012 survey by the Pew Research Center’s Global Attitudes Project reported that 50% of respondents said that corrupt officials are a very big problem (up from 39% in 2008).⁹² Chinese officials often identify government corruption as the greatest threat to the Chinese Communist Party and the state. The Chinese government’s anti-corruption watchdog reported that 106,000 officials were found guilty of corruption in 2009.⁹³ Since assuming power in 2012, Chinese Xi Jinping has carried out an extensive anti-corruption drive. China has reportedly sought cooperation with the United States to obtain extradition of 150 alleged corrupt officials who have fled to the United States.⁹⁴ However, many analysts contend that government anti-corruption campaigns are mainly used to settle political scores with out-of-favor officials. Some analysts contend that President’s Xi anti-corruption drive is more about consolidating his own political than instituting reforms.⁹⁵ In addition, there are some indicators that the current anti-corruption campaign may be having a negative impact on the Chinese economy, due to hesitancy by some local officials to pursue projects they feel will lead to scrutiny from the central government.⁹⁶ Many observers and argue that meaningful progress against government corruption cannot occur without greater government transparency, a system of checks and balances, a free press, Internet freedom, and an independent judiciary.⁹⁷ In October 2014, China held its fourth Plenum of the 18th Party Conference. The meeting focused on the need to enhance the rule of law in China, but emphasized the leading role of the Communist Party in the legal system.⁹⁸

China maintains a weak and relatively decentralized government structure to regulate economic activity in China. Laws and regulations often go unenforced or are ignored by local government

⁹⁰ *New York Times*, “Billions in Hidden Riches for Family of Chinese Leader,” October 25, 2012.

⁹¹ Global Financial Integrity, *Chinese Economy Lost \$3.79 Trillion in Illicit Financial Outflows Since 2000, Reveals New GFI Report*, October 25, 2012. It is not known how much of the illicit financial outflows in China are directly linked to government corruption.

⁹² Pew Research Global Attitudes Project, *Growing Concerns in China about Inequality, Corruption*, October 16, 2012.

⁹³ BBC News, “Corruption Up Among China Government Officials,” January 8, 2010.

⁹⁴ The Atlantic Monthly, *How to Discipline 90 Million People*, April 2015, available at <http://www.theatlantic.com/international/archive/2015/04/xi-jinping-china-corruption-political-culture/389787/>.

⁹⁵ The Washington Post, *China’s Leader, Xi Jinping, Consolidates Power with Crackdowns on Corruption, Internet*, October 3, 2013.

⁹⁶ A study reportedly issued by Bank of America Merrill Lynch estimated that China’s current anti-graft campaign would cost the Chinese economy more than \$100 billion. See, BBC, China Blog, *the Real Costs of China’s Anti-Corruption Crackdown*, April 2, 2014, available at <http://www.bbc.com/news/blogs-china-blog-26864134>.

⁹⁷ *New York Times*, “Chinese Officials Find Misbehavior Now Carries Cost,” December 25, 2012.

⁹⁸ The Diplomat, “4 Things We Learned from China’s 4th Plenum,” October 23, 2014, available at <http://thediplomat.com/2014/10/4-things-we-learned-from-chinas-4th-plenum/>.

officials. As a result, many firms cut corners in order to maximize profits. This has led to a proliferation of unsafe food and consumer products being sold in China or exported abroad. Lack of government enforcement of food safety laws led to a massive recall of melamine-tainted infant milk formula that reportedly killed at least four children and sickened 53,000 others in 2008.

Demographic Challenges

Many economists contend that China's demographic policies, particularly its one-child policy (first implemented in 1979), are beginning to have a significant impact on the Chinese economy. For example, according to a McKinsey Global Institute study, China's fertility rate fell from about 5.8 births per woman in 1964 to 1.6 in 2012.⁹⁹ This is now affecting the size of the Chinese workforce.

The existence of a large and underemployed labor force was a significant factor in China's rapid economic growth when economic reforms were first introduced. Such a large labor force meant that firms in China had access to a nearly endless supply of low-cost labor, which helped enable many firms to become more profitable, which in turn led them to boost investment and production. Some economists contend that China is beginning to lose this labor advantage. China's working population has reportedly fallen for three straight years (in 2014, it reportedly dropped by 3.7 million people).¹⁰⁰ *McKinsey Global Institute* predicts that over the next 50 years, China's labor force could shrink by one-fifth. Some economists contend such factors will lead to much smaller rates of future economic growth. As the labor force shrinks, Chinese wages could begin to rise faster than productivity and profits growth, which could make Chinese firms less competitive, and result in a shift of labor-intensive manufacturing overseas.¹⁰¹

The one-child policy has also resulted in a rapidly aging society in China.¹⁰² According to the Brookings Institute, China already has 180 million people aged over 60, and this could reach 240 million by 2020 and 360 million by 2030. The population share of people aged over 60 could reach 20% by 2020, and 27% by 2030.¹⁰³ With a declining working population and a rising elderly population, the Chinese government will face challenges trying to boost worker productivity (such as enhancing innovation and high-end technology development) and to expand spending on health care and elderly services. China's Hukou (household registration) system also poses challenges to the government.

China's Hukou System¹⁰⁴

First introduced in 1951, the Chinese Hukou (household registration) system is a categorization of its citizens based

⁹⁹ McKinsey Global Institute, *Can Long-Term Global Growth be Saved?*, January 2015, available at http://www.mckinsey.com/~media/McKinsey/dotcom/Insights/Growth/Can%20long-term%20global%20growth%20be%20saved/MGI_Global_growth_Full_report_February_2015pdf.ashx.

¹⁰⁰ The Washington Post, *One is enough: Chinese Families Lukewarm over Easing of One-Child Policy*, January 27, 2015, available at http://www.washingtonpost.com/world/asia_pacific/one-is-enough-chinese-families-lukewarm-over-easing-of-one-child-policy/2015/01/22/bdfeff1e-9d7e-11e4-86a3-1b56f64925f6_story.html.

¹⁰¹ International Monetary Fund, *the End of Cheap Labor*, June 2013, available at <http://www.imf.org/external/pubs/ft/fandd/2013/06/das.htm>.

¹⁰² Some analysts contend that because of its demographics, China will grow old before it grows rich.

¹⁰³ Brookings Institute, *Racing Towards the Precipice*, by: Feng Wang, June 2012, available at <http://www.brookings.edu/research/articles/2012/06/china-demographics-wang>.

¹⁰⁴ Prepared by Candy Meza, Research Associate, Foreign Affairs, Defense, and Trade Division.

on both their place of residence and eligibility of certain socioeconomic benefits. Hukou is issued through a registration process administered by local authorities and solidified into inheritable social identities.¹⁰⁵ The classification of the system is composed by two related parts: socioeconomic eligibility (agriculture/non-agriculture); and residential location (living in urban/rural areas) The Chinese government imposed the system with the purpose regulating population distribution, especially in regards to cities. Since economic reforms were begun in 1979, hundreds of millions of people have been allowed to leave their home towns to work in urban areas, such as Shanghai. The number of rural laborers working in China's cities was 274 million in 2014, over one-third (36%) of the total workforce.¹⁰⁶ Although such workers are allowed to reside in the cities where they work, they are generally denied access to social entitlements, such as pensions, medical insurance, and basic education for children. This forces such workers to save a very high level of their income to pay for these services. Due to China's desire to increase the urbanization of its population, combat demographic disparities, and to boost domestic consumption, the Chinese government is currently considering implementing new reforms to the Hukou system.

Plans Announced by the Chinese Government to Reform and Restructure the Economy

Various government officials have publicly stated the need for China to change course from its traditional economic growth model of growth at all cost to one that balances economic growth with a number of social goals in order to develop a “socialist harmonious society,” and to further modernize the economy. In March 2007, Chinese Premier Wen Jiabao stated that there are “structural problems in China’s economy which cause unsteady, unbalanced, uncoordinated and unsustainable development.” He defined “unsteady development” as overheated investment, excessive credit and liquidity, and merchandise trade and current account surpluses. “Unbalanced development” was described as economic disparities between rural and urban areas, regions of the country, and between economic and social development. “Uncoordinated development” was described as the lack of balance between various sectors of the economy (especially in regards to the services sector) and between investment and consumption (i.e., economic growth is mainly driven by investment and exports rather than consumer demand). Lastly, “unsustainable development” referred to problems caused by China’s inefficient use of energy and resources and failure to protect the environment.

The Central Government Five-Year Plans

China’s last two five-year plans (FYP), the 11th FYP (2006-2010) and the 12th FYP (2011-2015), have placed strong emphasis on promoting consumer demand, addressing income disparities (such as by boosting spending on social safety net programs), boosting energy efficiency, reducing pollution, improving the rule of law, and deepening economic reforms. Those plans have also identified a number of industries and technologies that the government has targeted for development (see **text box**).

¹⁰⁵ Congressional-Executive Commission on China, *Special Topic Paper: China’s Household Registration System: Sustained Reforms Needed to Protect China’s Rural Migrant*.

¹⁰⁶ Annual survey of migrant workers conducted by the National Bureau of Statistics, 2014. <http://www.stats.gov.cn/tjsj/ndsj/2014/indexeh.htm>.

China's 12th Five-Year Plan¹⁰⁷

China's Five-Year Plans (FYPs) have been issued by the government since 1953. The FYP is the major vehicle for the government to establish broad economic and social goals for the time period under consideration, to coordinate investments between the central and local governments, and to oversee implementation of policy. Not only does the plan influence investments by government entities, it also provides direction for bank lending and government approvals and regulation of private and semi-private industries. In March 2011, China's National People's Congress approved the 12th Five-Year Plan (covering the years 2011 to 2015).

The 12th FYP (2011-2015) contains three broad themes or areas of focus: (1) economic restructuring, (2) promoting greater social equality, and (3) protecting the environment. Chinese industrial policy comes into play primarily in economic restructuring but also is apparent in the other areas of focus. Particularly noteworthy is the targeting of seven strategic emerging industries that are intended to become the backbone of China's economy in the future and to be able to compete well on a global scale. These seven industries are (1) biotechnology; (2) new energy; (3) high-end equipment manufacturing; (4) energy conservation and environmental protection; (5) clean-energy vehicles; (6) new materials; and (7) next-generation information technology. The government reportedly intends to spend up to \$2.1 trillion on these industries during the 12th FYP. Some of the highlights of the FYP include the following:

- Achieving an average real GDP growth rate of 7% and ensuring that incomes rise at least as fast as GDP;
- Consolidating inefficient sectors and promoting the services industry (with the goal of expanding service sector output to account for 47% of GDP—up four percentage points from the current level);
- Promoting energy saving and new energy industries; promoting the development of nuclear, water, wind, and solar power; and expanding non-fossil fuel to account for 11.4% of primary energy consumption;
- Welcoming foreign investment in modern agriculture, high-technology, and environmental protection industries;
- Turning coastal regions from “world's factory” to hubs of research and development, high-end manufacturing, and services;
- Lengthening high-speed railway and highway networks;
- Increasing expenditure on R&D to account for 2.2% of GDP;
- Expanding non-fossil fuel to account for 11.4% of primary energy consumption;
- Cutting water consumption per unit of value-added industrial output by 30%, energy consumption per unit of GDP by 16%, and carbon dioxide emission per unit of GDP by 17%;
- Increasing the minimum wage by no less than 13% on average each year; and
- Building 36 million affordable apartments for low-income people.

Sources: Xinhua News Agency, *Highlights of China's 12th Five-Year Plan*, March 5, 2011; and APCO Worldwide, *China's 12th Five-Year Plan: How it Actually Works and What's in Store For the Next Five Years*, December 10, 2010.

The Drive for “Indigenous Innovation”

Many of the industrial policies that China has implemented or formulated since 2006 appear to stem largely from a comprehensive document issued by China's State Council (the highest executive organ of state power) in 1996 titled *The National Medium-and Long-Term Program for Science and Technology Development (2006-2020)*, often referred to as the MLP. The MLP appears to represent an ambitious plan to modernize the structure of China's economy by transforming it from a global center of low-tech manufacturing to a major center of innovation (by the year 2020) and a global innovation leader by 2050. As some observers describe it, China wants to go from a model of “made in China” to “innovated in China.” It also seeks to sharply reduce the country's dependence on foreign technology. The MLP includes the stated goals of “indigenous innovation, leapfrogging in priority fields, enabling development, and leading the future.”¹⁰⁸ Some of the broad goals of the MLP state that by 2020

¹⁰⁷ “Highlights of China's Draft 12th Five-Year Plan,” *Xinhua*, March 5, 2011.

¹⁰⁸ The MLP identifies main areas and priority topics, including energy, water and mineral resources, the environment, (continued...)

- The progress of science and technology will contribute 60% or above to China's development.
- The country's reliance on foreign technology will decline to 30% or below (from an estimated current level of 50%).
- Gross expenditures for research and development (R&D) would rise to 2.5% of gross domestic product (from 1.3% in 2005). Priority areas for increased R&D include space programs, aerospace development and manufacturing, renewable energy, computer science, and life sciences.¹⁰⁹

The document states that "China must place the strengthening of indigenous innovative capability at the core of economic restructuring, growth model change, and national competitiveness enhancement. Building an innovation-oriented country is therefore a major strategic choice for China's future development." This goal, according to the document, is to be achieved by formulating and implementing regulations in the country's government procurement law to "encourage and protect indigenous innovation," establishing a coordination mechanism for government procurement of indigenous innovative products, requiring a first-buy policy for major domestically made high-tech equipment and products that possess proprietary intellectual property rights, providing policy support to enterprises in procuring domestic high-tech equipment, and developing "relevant technology standards" through government procurement.

Economic Policies Outlined in the November 2013 Third Plenum

From November 9-12, 2013, the Communist Party of China held the Third Plenum of its 18th Party Congress, a meeting that many analysts anticipated would result in the initiation of extensive new economic reforms under China's new leadership. Following the meeting, the Communist Party issued a communique with a number of broad (and often vague) policy statements on reforms to be implemented by 2020, and then a few days later it issued a 60-point document that provided more detail of the Plenum's results. Many of the proposed reforms addressed issues to boost competition and economic efficiency. The Plenum also established a new "Central Leading Group" to design and coordinate the proposed reforms.

One of the major results of the Plenum highlighted by the Chinese media was that the market would now play a "decisive" role in allocating resources in the economy. China's media stated the economic reforms announced in the communique were comparable to those announced in 1978, when major reforms were first undertaken, and in 1992, when the Communist party agreed that the market should be the "basic" means of allocating resources under the concept of a socialist market economy. The 2013 Plenum communique thus elevated markets from having a "basic" role in resource allocation to having a "decisive" role.¹¹⁰ It further stated that "both public and non-public ownership are key components of China's socialist market economy."

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agriculture, manufacturing, communications and transport, information industry and modern service industries, population and health, urbanization and urban development, public security, and national defense. The report also identifies 16 major special projects and 8 "pioneer technologies."

¹⁰⁹ *R&D Magazine*, December 22, 2009.

¹¹⁰ For example, an editorial by *Xinhua* on November 13, 2013, stated that this was "not only a change in wording, but more importantly, a breakthrough in China's market reform and highlighting the importance of market power. The expression also means that the state should exert the government's role under the domination of the market, rather than exerting the market's role under the domination of the government."

While appearing to elevate the role of the private sector in the economy, the Plenum communique also emphasized the importance of the public sector in the economy, stating that China “must unwaveringly consolidate and develop the publicly owned economy, persist in the dominant role of the public ownership system, give rein to the leading role of the State-owned economy, and incessantly strengthen the vitality, control, strength and influence of the State-owned economy.” Some observers contend that this could indicate that the Chinese government will continue to actively support and protect state-owned enterprises (SOEs). Others argue that the Plenum documents indicate that SOEs will be subject to structural and market-based reforms.

For example, the 60-point document indicates that China plans to push forward with market-based price reforms, including for water, oil, natural gas, electricity, transport, and telecommunications (sectors that generally been dominated by SOEs and used to subsidize other SOEs); allow nonpublic entities to invest in SOEs; and increase the level of dividends SOEs are required to transfer back to the government for use in social safety net programs. The document emphasizes the goals of perfecting a mechanism where prices are determined by the market; making market rules that are fair, open, and transparent; implementing a unified market entrance system where market players of all kind are allowed to compete (except in sectors on a “negative list”); reducing regional protectionism; and improving market exit mechanisms to promote the “survival of the fittest.”

Other proposed areas of reforms include improving protection of intellectual property rights; implementing new financial reforms (such as allowing more private banks, improving market mechanisms for the exchange rate of the renminbi, and accelerating interest rate liberalization and capital account convertibility); liberalizing rules on foreign investment and establishing new free trade zones; and improving macroeconomic control over the economy while reducing government involvement in market operations. Some economic reforms have been implemented since the Third Plenum was held, such as interest rate liberalization and currency reform. Some U.S. business groups have expressed disappointment with the overall pace of reforms.¹¹¹

Challenges to U.S. Policy of China's Economic Rise

China's rapid economic growth and emergence as a major economic power have given China's leadership increased confidence in its economic model. Many believe the key challenges for the United States are to convince China that (1) it has a stake in maintaining the international trading system, which is largely responsible for its economic rise, and to take a more active leadership role in maintaining that system; and (2) that further economic and trade reforms are the surest way for China to grow and modernize its economy. Lowering trade and investment barriers would boost competition in China, lower costs for consumers, increase economic efficiency, and spur innovation. However, many U.S. stakeholders are concerned that China's efforts to boost the development of indigenous innovation and technology could result in greater intervention by the state (such as subsidies, trade and investment barriers, and discriminatory policies), which could negatively affect U.S. IP-intensive firms.

Opinions differ as to the most effective way of dealing with China on major economic issues. Some support a policy of engagement with China using various forums, such as the U.S.-China Strategic and Economic Dialogue (S&ED), which holds discussions on major long-term

¹¹¹ See for example, the U.S.-China Business Council, *USCBC China Economic Reform Scorecard—Impact Unchanged; Still Limited*, September 2015, available at <https://www.uschina.org/sites/default/files/USCBC%20China%20Economic%20Reform%20Scorecard%20Sep%202015%20Final.pdf>.

economic issues at the highest government level as is scheduled to meet next in June 2016. Others support a somewhat mixed policy of using engagement when possible, coupled with a more aggressive use of the World Trade Organization (WTO) dispute settlement procedures to address China's unfair trade policies. Still others, who see China as a growing threat to the U.S. economy and the global trading system, advocate a policy of trying to contain China's economic power and using punitive measures when needed to force China to "play by the rules." Media reports of extensive cyber espionage by Chinese entities (including the Chinese military) against U.S. firms have also raised concern in the United States over how to respond to what many see as a serious threat to U.S. economic interests.¹¹²

China's growing economic power has made it a critical and influential player on the global stage (see **text box**) on a number of issues important to U.S. interests, such as global economic cooperation, climate change, nuclear proliferation, and North Korean aggression.¹¹³ China is in a position to help advance U.S. interests or to frustrate them. China's rising economy has also enabled it to boost its military capabilities.

China's Growing Soft Power

China's emergence as major global economic and trading power has made it increasingly relevant in the global economy and this trend will likely continue as long it continues to maintain rapid economic growth. China's continued economic rise may lead it to seek a larger role in setting global trade rules and economic policies, which may not always coincide with U.S. goals. Some view China's economic ascendancy as a major source of its rising "soft power," the ability to influence other nations, because they admire and/or seek to emulate China's economic system.

China has also undertaken a number of initiatives that could boost its soft power around the world. For example:

- In July 2014, China, along with Brazil, Russia, India, and South Africa, announced the creation of a \$100 billion "New Development Bank," to be headquartered in Shanghai, China. The new bank would be aimed at assisting developing economies.
- China's announced plans in 2013 for a Silk Road Economic Belt and a 21st Century Maritime Silk Road (together, referred to as the "One Belt, One Road initiative).
- In October 2014, China launched the creation of a new \$100 billion Asian Infrastructure Development Bank (AIIB), reportedly to be headquartered in Beijing, aimed at funding infrastructure projects in Asia. Fifty-seven nations joined as founding members. U.S. officials have expressed concerns over the AIIB in terms of governance and environmental standards and it is unclear whether or not the United States will eventually join the AIIB.
- In November 2014, China announced that would contribute \$40 billion to a new Silk Road Fund designed to improve trade and transport links in Asia.
- In April 2015, China announced that it would invest \$46 billion in infrastructure development in Pakistan.

U.S. policymakers face a number of complex challenges on how to deal with these issues. Can the United States compel better behavior from China via quiet diplomacy or public confrontation? Has U.S. leverage over Beijing lessened in the wake of China's economic rise, and has China's leverage over Washington increased? Are China's new leaders serious about undertaking comprehensive reforms as outlined in the Third Plenum?¹¹⁴ Does Chinese President Xi Jinping

¹¹² For example, see Mandiant, *APT1, Exposing One of China's Cyber Espionage Units*, February 19, 2013. The report documents cyber espionage by a Chinese entity (believed to be linked to the Chinese People's Liberation) against more than 141 companies in 20 industries.

¹¹³ For additional information on these issues, see CRS Report R41108, *U.S.-China Relations: An Overview of Policy Issues*, by Susan V. Lawrence.

¹¹⁴ In March 2013, Xi Jinping formally replaced Hu Jintao as China's President (Xi is also general secretary of the Communist Party of China Central Committee). Many analysts argue that during the eight years of Hu's presidency, economic reforms in China were essentially stalled (and in some instances, reversed) compared to policies under the (continued...)

have the power to implement new economic reforms if they are opposed by other factions of the government that have a stake in maintaining the status quo? To what extent will the Chinese government be willing to reduce or eliminate preferential policies (such as subsidies and preferential bank loans) given to SOEs? Will the reforms result in a significant reduction in trade and investment barriers against U.S. firms? China has become increasingly active in boosting its economic ties with other countries, such as by negotiating FTAs and pledging to help finance large-scale infrastructure projects in numerous countries. What implications could these initiatives have on U.S. economic interests?

Some financial analysts have recently raised concerns over China's economic slowdown, the Chinese government's poor handling of the stock market downturn, and the relatively slow pace of economic reforms. On the one hand, China appears to be rebalancing its economy away from rapid growth that is driven by high fixed investment, exporting, and heavy industry, to a more consumption-based economy with greater emphasis on services and innovation. For some, China's slower economic growth rates are a positive development. However, the Chinese government continues to emphasize the role of the state in the economy, and it is unclear whether it is willing to implement the type of comprehensive economic reforms that are needed to ensure that healthy economic growth continues in the years ahead. Some economists warn that the absence of new reforms could cause the Chinese economy to stagnate in the years ahead, which in turn could negatively affect the global economy.

Author Contact Information

Wayne M. Morrison
Specialist in Asian Trade and Finance
wmorrison@crs.loc.gov, 7-7767

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previous Chinese leader, President Jiang Zemin. On several occasions, China's media has reported President Xi call for deepening economic reforms, but few specific reforms been announced by the government to date.