Asian Century or
Multi-polar Century?

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Summary

The “rise of Asia” is something of a myth. During 1990–2005 China accounted for 28% of global growth, measured at PPP. India accounted for 9%. The rest of developing Asia, with nearly a billion people, accounted for only 7%, the same as Latin America. Hence there is no general success of Asian developing economies. China has grown better than its developing neighbors because it started its reform with a better base of human capital, has been more open to foreign trade and investment, and created good investment climates in coastal cities. China’s success changes the equation going forward: its wages are now two to three times higher than in the populous Asian countries (India, Pakistan, Bangladesh, Vietnam, Indonesia), and China will become an ever-larger importer of natural resource and labor-intensive products. Developing countries need to become more open and improve their investment climates to benefit from these opportunities. China itself faces new challenges that could hamper its further development: unsustainable trade imbalance with the U.S., energy and water scarcity and unsustainable use of natural resources, and growing inequality and social tension. To address the first two of these challenges, good cooperation between China and the U.S. is essential. I conclude that we are more likely to be facing a “multi-polar century,” than an Asian century.


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Introduction

The *Asian Century* is a term used to describe the belief that, if certain demographic and economic trends persist, the 21st century will be dominated by Asian politics and culture, similarly to how the 20th century is sometimes called the American Century. – Wikipedia

The emergence of big developing countries, notably China and India, from a long period of self-imposed isolation is the most distinctive feature of the modern era of globalization. In the 15 years between 1990 and 2005, developing economies of Asia accounted for 44% of global economic growth, measured at purchasing power parity. The established industrial powers of the OECD accounted for 41%. Many observers believe that these trends will continue and that we are on the verge of an “Asian Century” that will be dominated by Asian economics, politics, and culture.

This paper examines the Asia’s recent development, future prospects, and impact on the rest of the developing world. I address this topic by dividing Asia into three roughly equal parts—China, India, and the rest of developing Asia (RODA)—and by comparing their economic performances and future prospects.

Just separating the region into these three parts quickly reveals that the notion of the rise of Asia is something of a myth. In the next section I look at the recent economic performance of China, India, and RODA (each of which has, roughly speaking, about a billion people). China’s economic performance has been spectacular and the “rise of China” is a real phenomenon. India has done well, but over a 15-year period its per capita GDP growth averaged 4%, far behind China’s performance. That growth rate has accelerated in recent years and a key issue for India is whether it can sustain this higher growth. The rest of developing Asia has grown at 2.7%, just slightly better than the world
average. Within RODA, there is large heterogeneity, with Thailand and Vietnam growing quite well, while other large economies such as Bangladesh, Indonesia, Myanmar, Pakistan, and the Philippines have performed from poor to average. The weaker performances of India and of RODA, compared to China, can be traced to a weaker base of human capital, less openness to foreign trade and investment, and relatively poor investment climate, compared to Chinese coastal locations.

As a result of its rapid growth, China has emerged with significantly higher per capita income than either India or RODA, and higher wages – wages have been rising rapidly in Chinese coastal cities, in real terms. Exchange rate appreciation will strengthen this tendency for China to be the high-wage producer in developing Asia. China has also become a major importer of various natural resources including oil, natural gas, copper, and timber. Looking forward, there are good opportunities for other developing countries to expand trade with China based on greater resource and labor abundance (Section 3). There is already some shift of labor-intensive manufacturing out of China to other Asian developing countries. But to really reap the potential benefits Asian developing countries need to continue to open up to foreign trade and investment and to strengthen investment climates. Much of what is important in the investment climate is determined at the local level, so the next period will see intense competition among cities to create good environments and attract both firms and talent. It is very likely that within Asia some cities will do much better than others in this competition.

As noted, the rise of China is a real phenomenon, and China’s continued growth will be increasingly important for the global economy and for developing economies. In Section 4 I examine some of the key issues that China faces. The fact that China has
grown well for 25 years does not guarantee continued growth. Its demographics, openness, and investment climate lay a foundation for further rapid growth for 15 years or so, but the country also faces some new challenges in the short and medium term. In the immediate future, the trade imbalance between China and the rest of the world is a real worry; the current situation is not sustainable and China needs to shift its production to some extent away from exports toward internal needs such as better social services and higher household consumption.

In the medium term, the resource-intensity of China’s growth is not sustainable. Energy efficiency has actually declined over the past five years. Inefficient use of energy is contributing to serious pollution problems, with very high human costs, and also making China increasingly dependent on an imported commodity that is in ever-scarcer supply. The third big issue that China faces is that recent growth has been accompanied by a sharp rise in inequality and by surprisingly little social improvement – so that there is growing popular demand for more public support to education and health and better designed safety nets.

Section 5 focuses on implications for the rest of the developing world. Continued success by China will pose challenges to the rest of the developing world, but also large opportunities. On the other hand, if China does not do a good job of addressing its challenges, the consequences for the rest of the developing world will be mostly negative. I also introduce the idea that in addressing its key challenges, cooperation between China and the U.S. will be crucial. If the two countries do not cooperate on resolving the trade imbalance through higher savings in the U.S. and greater consumption in China (including public spending on health and education), there could be a nasty global
recession with high U.S. dollar interest rates and sharply falling commodity prices, which would create a very poor environment for the rest of the developing world.

Looking to the longer term, China and the U.S. are the two big consumers of energy and the two big emitters of greenhouse gases. They could cooperate on developing new energy-efficient technologies and capping greenhouse gas emissions. Or they could compete to try to lock up declining supply of oil and gas with negative consequences for global stability and for the global climate. The Stern review suggests that the economic impact of climate change will be quite devastating for many poor countries, so how China and the U.S. deal with their energy needs will have major ramifications for the developing world.

I conclude that the next century is more likely to be a “Multi-polar Century” than an “Asian Century.” There is too much heterogeneity within Asia to make “Asian Century” a very useful concept. If current trends continue, the U.S. and China will be the main sources of global growth. Good cooperation between China and the U.S. on important global issues such as maintaining an open trading system, resolving global imbalances, and managing energy scarcity and global climate change could usher in an era of harmony and successful development throughout much of the world. On the other hand, if there is poor cooperation and lack of progress on these issues, much of the cost will be borne by people in the developing world. If India continues its recent strong growth performance it will become a third significant force in the global economy, and one can imagine scenarios in which China stumbles while India surges ahead. So “multi-polar” seems a good adjective to describe this moment in global economic history.

1. *The rise of Asia?*
The period since 1990 marks an important change in world economic history. For a long period, going back 200 years, the countries of Western Europe and their offshoots (U.S., Canada, Australia, and New Zealand) grew faster than economies in the rest of the world creating the division of the world between “developed” and “developing” countries. During this time Japan was the only major country outside of the European sphere that managed to join the club of developed nations. This pattern of the already rich growing faster came to an end during the 1980s. In the 1990s developing countries as a whole grew twice as fast (3.5% per capita) as the developed countries (1.7% per capita). The world has reached an important milestone in which about one-half of global GDP, measured at PPP, comes from developing countries. Most of this rapid, emerging market growth has occurred in Asia, leading to talk of “the rise of Asia.”

One immediate problem with the concept of “the rise of Asia” is that the continent is a large and heterogeneous one. It has about half of the world’s population, divided roughly in thirds among China, India, and the Rest of Developing Asia (RODA). RODA in turn is quite heterogeneous. The main population centers are Indonesia, Pakistan, Bangladesh, Myanmar, Thailand, Vietnam, and the Philippines. Those seven countries have a combined population of 800 million people. Thailand is relatively wealthy and developed, while Myanmar next door is extremely poor and backward.

In 1990 RODA in the aggregate had per capita GDP of $2421 (measured at PPP), about 50% richer than India ($1701) or China ($1597). What has happened since? For the world as a whole, per capita GDP growth was 2% in the 1990-2005 period. Over this period China had spectacular growth of 8.7% per annum. India grew at 4%; RODA at 2.7% (Table 1). Hence if one were grading growth performances over the past 15 years, I
would give China A, India B+, and RODA C+. Once one takes out China and India, the rest of developing Asia has grown only slightly faster than the world economy as a whole.

While it is useful to talk about growth rates, they also mask important things that are going on in global production. The U.S. has been growing at a fairly steady rate, around 2% per capita. That sounds very modest. But with a level of per capita GDP that averaged $33,000 over the 1990-2005 period, the U.S.’s 2% per capita growth generates about $660 in additional goods and services per person per year. China’s spectacular growth of 8.7% generated an average increase in goods and services per person of $320 per year during the period.

If we look at where increased GDP was produced in this period, China and the U.S. seem to be the two big winners in this era of globalization. China accounted for 28% of the global increase in GDP since 1990, while the U.S. accounted for 19% (Figure 1). Hence China and the U.S. combined generated nearly half of all global GDP growth in the recent period. India, with 16% of the global population, generated 9% of GDP growth. RODA, with 14% of world population, only generated 7% of growth. The figure is almost identical for Latin America. These numbers suggest that the rise of China is a real phenomenon and the rise of India has good potential, but talk of “Asia rising” may be misleading. For Asia, outside of China and India, economic performance has been only slightly better than the world average.

A similar pattern is observed in the area of trade. One of the features of this modern era of globalization is that trade is growing a lot faster than GDP, so that trade integration is deepening, especially for developing countries, many of whom had
followed inward-oriented strategies up to the 1980s. Global per capita GDP growth has averaged 2% since 1990, aggregate GDP growth 3.4% (adding in population growth), while merchandise export growth has been 6%. For China, export growth has been a spectacular 15.0% per year; for India, 8.9%; for RODA, 8.5% (Table 1).

Since China, India, and RODA all had similar per capita GDP in 1990, it is natural to inquire why their growth performances have been so different. This is obviously a complex question involving many factors. I would highlight three factors in particular that help to explain the divergent growth performances. First, China had a better base of human capital in 1990 compared to India or RODA. Second, over this period China has been more open to foreign trade and investment than India or RODA. Third, China has created a better investment climate for the private sector than India, which in turn had a better climate than RODA on average. The qualifier “on average” is important because Thailand, for example, had quite a good investment climate and grew well, but it is a relatively small part of RODA, dwarfed in size by Indonesia, Bangladesh, and Pakistan.

In the area of human capital, it is important to note that China’s advantage has historical roots. Already in 1870, 21% of adults in China were literate – since nearly all of these would have been males, this means that about 40% of adult males were literate. In South Asia the literacy rate in 1870 was 3% of the adult population, about the same as in Africa. Latin America had a literacy rate of 15% in 1870 (Morrisson and Murtin, 2005). In 1990, even though China was poorer than India or RODA, it had a more educated population. Average years of schooling of the adult population in China was 5.2 years in 1990, compared to 3.7 in India or 3.5 for the rest of developing Asia (Barro
and Lee, 2000). The superior human capital of China can be seen as well in infant mortality data, which are a good summary indicator of health status. In 1990 China’s infant mortality rate was 38 per 1000, far below India’s 80 or RODA’s 69 (Table 2). Despite its good human capital, in 1990 China had about the same per capita income as Bangladesh, India, Pakistan, and Vietnam, and was substantially poorer than Indonesia, Philippines, and Thailand. It is hard to get reliable data on wages, but the available data suggest that China had wages somewhat lower than those in Bangladesh, India, and Pakistan, and far behind those in the more advanced Asian developing countries (Table 3).

The Chinese refer to their reform program as “Gai ge kai fang,” which translates as “change the system, open the door.” The whole reform program is often referred to in brief as the “open door policy.” This highlights that a key component of Chinese reform has been trade liberalization and opening up to direct foreign investment, but not opening the capital account more generally to portfolio flows. By 1990 China’s economy was far more open than those of the other low-wage countries in Asia: China’s average import tariff was 40%, well below those of Bangladesh (94%), India (82%), or Pakistan (65%). Thailand (40%) had the same average tariff rate in 1990; the Philippines (28%) and Indonesia (21%) were more open still, but with significantly higher wages they were not competing directly with China (Table 3). After joining the WTO China’s average tariffs have dropped below 10%, and to around 5% for manufactured imports. It initially welcomed foreign investment into “special economic zones,” but it is important to note that some of these were very large, amounting to urban areas of 20 million people or more. The positive impact of foreign investment in these locations led to a more general
opening up of the economy to foreign investment, with the result that China has become the largest recipient of direct investment flows in recent years. Thus, compared to other labor-abundant countries in Asia, China has been more open to foreign trade and investment.

The opening up measures would not have had such substantial impact if they had not been accompanied by improvements in investment climate. This is probably one of the least understood features of China’s recent development. There are literally dozens of Chinese coastal cities that have developed quite good investment climates. In these cities the private sector accounts for 90% or more of manufacturing assets and production. A genuine Chinese private sector has emerged that is highly profitable: in 2005 average pre-tax rate of return for domestic private firms was around 20%, similar to that for foreign-invested firms (Dollar and Wei, 2006). World Bank investment climate surveys have documented the differences in the objective conditions of production in Chinese cities, compared to ones elsewhere in developing Asia. For example, firms lose a lot of output as a result of unreliable power supply: 3.3% of output in Indonesia, 4.9% in Pakistan, 5.9% in Philippines, 7.9% in India. The figure for coastal Chinese cities was 1.0% (Table 4). Similarly, most manufacturing firms are importing some parts and material: customs clearance time for imports is low in Chinese cities (3.2 days) compared to those in Indonesia (4.8), India (6.6), Philippines (7.2), Bangladesh (10.6), or Pakistan (17.1).³ On a whole range of practical matters that affect production, Chinese coastal cities outperform the best locations in Bangladesh, India, Indonesia, Pakistan, and the Philippines. The only large Asian countries that have similarly good investment climate
indicators are Thailand and Vietnam, both of which have grown quite well – though not as fast as China – in the recent period.

In summary, China, India, and RODA entered this recent era of globalization with similar per capita GDP and wage levels. But China has done more to open its economy to the global market, while significant numbers of its coastal cities have created sound investment climates for private investment. The result has been a remarkable dynamic of growth. India has followed a similar path, but more slowly in terms of opening up the economy and with less success in creating good investment climates. The rest of developing Asia has some pockets of notable success such as Malaysia, Thailand, and Vietnam, but other large population centers such as Indonesia, Bangladesh, Pakistan, and the Philippines have been held back, primarily by poor investment climates and weaker connections to the global market.

3. Prospects for the rest of developing Asia

The world economy and global trade grew well in the 1990-2005 period, and the countries of developing Asia, outside of China, did not take full advantage of the opportunities offered by this growth. There is reason to be cautiously optimistic that in the next period India and the economies of RODA will perform better. In the 1990s many of the countries of Asia were competing directly with China, which was a labor-abundant economy that was largely self-sufficient in natural resources. China’s success, however, has changed the equation going forward. Wages have risen rapidly in coastal cities of China. Population growth, 1990-2005, was much slower in China (0.9% per annum) than in India (1.7%) or RODA (1.8%). So, China will have an increasingly tight labor market, combined with a likely exchange rate appreciation. Manufacturing wages
in China are now two to three times as high as wages in Bangladesh, India, Pakistan, or Vietnam (Table 3). In China’s good coastal locations manufacturing wages now reach $2400 per year. Compared in a common currency, the wage gap between China and the rest of developing Asia is likely to widen rapidly. Thus, comparative advantage in the more labor-intensive production processes will shift away from China – this is already happening.

At the same time, China has emerged as a large net importer of natural resources such as oil, gas, timber, copper, and other minerals. Looking ahead, the rest of developing Asia will thus be significantly more labor abundant and more resource abundant than China. Rather than competing with China, as in the recent period, the rest of developing Asia is looking toward an era in which its economies are more complementary to an increasingly developed China—providing good opportunities for mutually beneficial trade. Since China joined the WTO at the end of 2001 its imports from the rest of Asia have been rising at more than 20% per year.

Already there is some evidence of improved economic performance in the rest of developing Asia. For India, per capita growth accelerated from 3.5% in the 1990–2000 period to 5.1% in the subsequent five years. For RODA there was some growth acceleration as well, though less dramatic: from 2.6% per annum (1990–2000) to 2.8% (2000–2005). This acceleration can be seen in some of the major countries of RODA: growth accelerated from 2.0% to 3.8% in Bangladesh; from 5.1% to 6.2% in Vietnam; from 3.2% to 4.0% in Thailand; and from 2.1% to 2.2% in Pakistan.

Taking even more advantage of the opportunities that growth in China and the global economy presents will require that the economies of India and RODA rectify the
main deficiencies that held them back in the recent period: being more closed to global trade and direct investment than China, and having too many severe bottlenecks in the investment climate. Progress on the trade side is easier. Vietnam recently joined the WTO and in the process significantly liberalized its import regime, to an average tariff rate of 14%. Bangladesh (average 2004 tariff of 18%), India (28%), and Pakistan (16%) have lowered their trade barriers, though all are still less open than China (Table 3).

Progress on the investment climate front is more difficult, because typically there are important special interests that benefit from cumbersome customs procedures or complicated regimes of regulations and permits that make it difficult to start and operate firms. Many of the important aspects of the investment climate are actually determined by local government because local regulations and zoning (over land for example) are critical, and because local government often has discretion in implementation of matters that in theory are set at the national level.

In practice then we are seeing a lot of competition among cities to create better investment climates and attract both firms as well as talented workers. This competition among cities will be one of the hallmarks of the next 15 years. Most of the countries of developing Asia have achieved macroeconomic stability and a trade and investment regime that is open on paper. Competition then moves to the more micro level: which locations can create good environments for firms to start up, access finance, find skilled labor, and connect to the global market? The cities that succeed will be the centers of growth in the coming period.

Some critics of globalization have feared that competition would lead to a “race to the bottom,” but in fact the opposite seems to be happening: a “race to the top.” A World
Bank study of investment climate in 120 Chinese cities found that the ones that had created a good climate for private investment had also done the best job in terms of meeting social and environmental objectives (World Bank, 2006). In the cities with good investment climates wages have risen rapidly leading to other social advances such as low unemployment, low infant mortality, and high levels of investment in education. Somewhat surprisingly, the best investment climate cities also had better environmental indicators such as more clean air days per year, more green space per capita, and more industrial waste properly treated. This correlation likely arises from a number of different sources. The same effective governments that create non-bureaucratic and efficient production environments for private firms, seem to be better at meeting human needs as well. Also, as cities prosper and move up the value chain to more sophisticated products, it becomes increasingly important that they have good living environments in order to attract and retrain the best talent. At the high end of the value chain, a good living environment is a crucial part of a good investment climate.

I have not said anything so far about political developments. The reason for this is that political developments are much harder to predict than economic outcomes. Also, in developing Asia there is no clear relationship between political systems and good economic governance. Good economic governance provides wide economic opportunities to the populace through measures such as broad-based public education, sound investment climate to start firms, and openness to the global market to permit division of labor and specialization. While governance is hard to measure, researchers have often used ICRG’s property rights/rule of law index as a summary measure of economic governance and Freedom House’s political index as a measure of democracy.
Based on those indicators, among Asian developing countries, there are democracies with strong poverty rights/rule of law (Malaysia, Thailand, and India) and democracies where property rights/rule of law are measured to be less good (Bangladesh, Indonesia, Philippines). Similarly, there are less politically open countries measured by ICRG to have strong property rights/rule of law (China, Vietnam) and those measured to be less strong (Myanmar, Pakistan).

This pattern is similar throughout the developing world. If one leaves developed countries out of the analysis, there is no correlation between democracy as measured by Freedom House and ICRG’s property rights/rule of law index (Figure 2). In the very long run there is likely to be a relationship: all the fully industrialized countries have both good economic governance and liberal democracy. But the lack of correlation between democracy and economic governance among developing countries suggests that the relationship is a long-run one, and probably a complex one with causality running both ways. Good economic governance leads to sustained growth, higher incomes, and a broader civil society, which are promising foundations for political reform. Well-functioning democracy in turn provides a mechanism of accountability and checks and balances on decision-making that tends to prevent the worst economic mistakes. (While democracies and authoritarian states tend to grow at about the same average rate, the growth rates of authoritarian countries have greater dispersion suggesting that authoritarian states tend to really get it right or really get it wrong, without much corrective mechanism.)

4. China’s challenges
China accounted for 28% of global growth between 1990 and 2005. Going forward, China is likely to account for an even larger share of global growth in the next 15 years. If the growth rate of each region remained the same as in the past 15 years, then China would account for half of all the growth in the world over the next 15. The reason that the same growth rates produce a larger share for China is that its weight in the global economy is increasing rapidly. Now, it is unlikely that China can maintain a spectacular growth rate of around 9%, but it certainly has the potential to continue to grow in the 7% range. Its demographics, good investment climate, and growing integration with the global economy mean that the basic foundations of rapid growth remain in place. If China’s growth rate averages 7%, while the rest of the world performs as it did in the 1990–2015 period, then China would account for 37% of all global growth in the next period. In that scenario the U.S. would account for 16% of global growth and India 12%, so that these three large economies would account for about two-thirds of all the growth in the world.

Thus, how well the world economy performs will depend a lot on China, and hence the external environment for other developing countries will depend a lot on China’s performance. Because China has had impressive economic success in the past two decades, many outside observers (and investors) naively assume that the success will continue. But the past is no guarantee of success; in the immediate future China faces challenges of macroeconomic management that it has not faced before. It also faces medium-term challenges of resource scarcity and growing inequality and social tension. How well China manages these problems will have a large effect on the rest of the world.

A. Macroeconomic adjustment
While China has grown well since 1990, it is remarkable how much savings and investment this has required. Since 1990 China’s investment has been growing more rapidly than consumption – either household or government consumption. Much of this capital formation has been aimed at external markets, and China’s export volume has grown much faster than its GDP (so that trade to GDP keeps rising). Export orientation has been a good development strategy for China. And in recent years its tendency in that direction has been exacerbated by U.S. policy. U.S. fiscal stimulus after 9/11 was a positive factor in the world, and 2004 was the best year of growth for the world economy in 30 years. But with the U.S. and world economies growing well, there is no longer a macroeconomic justification for such large stimulus. Yet the shift in the U.S. fiscal position – from surplus to deficit – has been on the order of 6–7 percent of GDP. The U.S. is now set to run large fiscal deficits into the foreseeable future. The deficit, combined with low private savings in the U.S., then drives a large external imbalance. The U.S. is borrowing $800 billion per year from abroad to finance its shortfall of savings. The large trade deficit of the U.S. is necessary as long as the U.S. needs this level of external finance.

So, U.S. policy has acted as a giant vacuum cleaner aimed at a Chinese production machine that was already oriented towards exports. In some sense the U.S. stimulus accelerated development that was likely to take place in China anyway, but at a more gradual pace. This acceleration is great for China in the short run, but creates some real adjustment problems ahead. Since joining the WTO in 2001, China’s exports have grown at 29% per year, and its imports at 26%. Its real investment has increased at 14% per year. These rates are clearly not sustainable. China is now a large player in the world
market (second largest trader after the U.S.), and it would have to find huge new external markets every year to keep this up. And the U.S. cannot go on borrowing at its current rate forever. But getting out of this co-dependency is no simple matter.

The smooth adjustment in this situation requires an increase in savings in the U.S., partly through slower growth of private consumption and partly through a lower fiscal deficit (probably through some combination of expenditure reduction and tax increases). On the Chinese side, there is a need to encourage consumption. Further real appreciation of the renminbi would push in this direction. Structural measures such as collecting dividends from state enterprises, better pension and health insurance schemes, and more public spending on health and education would both meet human needs and tend to direct the economy away from investment and exports.

It is quite possible, however, that this adjustment could go badly. On the U.S. side, rising dollar interest rates and the end of the housing bubble could lead to a sharp contraction of consumption and a significant slowdown in global growth. The magnitude of interest rate rise will depend to some extent on the willingness of foreigners to continue to increase their holdings of U.S. bonds. If the world loses confidence in U.S. assets, then there could be the unpleasant combination of high interest rates and global recession.

On the Chinese side, a lot of capital stock has been built up in this boom to export to the U.S. market, and the growth of the capital stock in export industries continues to this day to expand at a rapid rate. As U.S. demand slows down and the real exchange rate appreciates, however, a good chunk of that investment will turn out to be unprofitable. Those firms will not be able to service their loans, and non-performing
loans will build up in the banking system. This happens in any boom in a market economy, and a robust financial system can deal with these problems pretty quickly. Unprofitable firms are forced into bankruptcy, their assets disposed of, and business goes on. But China has had a very big boom, and its banking system is still weak. There has been some reform of banking practices and regulatory supervision, and a small amount of private entry into the sector. We will only find out how deep this reform is when the economy experiences some kind of shock that requires the financial system to play this disciplining and restructuring role.

**B. Natural resource scarcity**

If China and the U.S. can successfully manage this structural adjustment and continue to grow well, natural resources will be one of the key constraints that China then has to confront. The rate at which the Chinese economy has been using natural resources in recent years is unsustainable. This is clearest in the area of energy. While China is relatively well endowed with coal, it appears so far to be scarce in oil and natural gas. Over the past 15 years China’s oil imports have been growing rapidly (at more than 30% per year in volume terms), and it has emerged as the second largest importer behind the U.S. Before long it will emerge as the largest importer. Given the supply situation in the world and the fact that much oil and gas come from politically unstable countries, this is clearly a risk factor for the country’s future.

While it is inevitable that energy use will grow with China’s economy, much could be done to increase the energy efficiency of China’s development. For specific industrial processes, China uses more energy than OECD countries. Its residential space heating is highly inefficient, using 50–100% more energy than is used in OECD countries
with comparable climates. Given the rapid pace of housing construction, enforcing strict standards now would make a big difference for future energy demand. So too with auto standards. Thirty percent of the buildings and 60% of the cars that will be in use in five years have not been built yet. Energy use and air pollution could be dramatically reduced by enforcing strict energy efficiency standards for both buildings and vehicles. Air pollution has become a serious problem in China. Of the 30 most air-polluted cities in the world, 20 are in China. The air pollution results from the combination of (1) coal use for power, industry, and home heating and (2) growing motorization.

Despite its extreme scarcity, many energy prices are low in China. The retail price of gasoline (about 50 cents per liter) is below the U.S. level and far behind other OECD countries such as Japan or Western Europe, encouraging inefficient motorization. China’s cheap gas policy is an important factor encouraging the development of a car culture. China in many ways is following the U.S. policy of car-led development from the 1950s, a policy in which the U.S. built an impressive highway system and guaranteed cheap gas to consumers. Whether or not this has been a good policy for the U.S. is debatable, but in China’s case the fact that the country is much more densely populated than the U.S. and that petroleum worldwide is increasingly scarce makes this a very questionable development choice.

China’s leaders recognize the importance of energy scarcity. In recent years China’s energy use has risen faster than GDP. For the next five-year plan the government has set an extremely ambitious target of increasing energy efficiency by 20%. The key elements of an energy policy to meet this target are pricing and standards. A significant petroleum tax raising the retail price of gasoline could lead to more
conservation and also provide a source of funds for urban planning and for public transportation investments.

China is already the second largest emitter of greenhouse gases, after the U.S., and is projected to emerge by 2010 as the largest emitter. So, an important question for the world will be whether China and the U.S., together with the other major industrial producers, can cooperate on energy efficiency and control of greenhouse gases. Under any scenario, demand for oil and gas (and hence prices) are likely to remain high, and the global climate is likely to become warmer. With sound energy policies and new technologies, the world can achieve a result of high but stable energy prices and mitigation of climate change. Without better cooperation and policies, on the other hand, the world could face some bad scenarios of climate change and competition over ever scarcer oil and gas resources.

C. Can the transformation be harmonious?

China should be praised for achieving the most rapid poverty reduction in history. The World Bank estimates that the number of people living on $1 per day (measured at PPP) declined from over 600 million at the beginning of economic reform to 135 million in 2004 (World Bank, 2007). The country is on track to eliminate $1 per day poverty by 2015. While poverty has been reduced, however, there has been mounting inequality in recent years that has generated social tension. Roughly speaking, urban real incomes have been growing at about 12% per year while rural real incomes have grown at 5–6%. The rural-urban income gap in China is one of the largest observed in the world, fueling massive migration from the countryside to cities. Already about 200 million people have
relocated. In the next 10–15 years it is likely that another 200 million will move from
countryside to city.

China’s Gini coefficient has risen from .25 at the beginning of reform to .41
today. Some increase in inequality was inevitable, starting from the 1978 situation, and
.41 is not high compared to Gini measures of inequality in large Latin American
countries (for example, Brazil .58 or Mexico .50). But still, the rapid recent increase is a
real worry. China’s recent growth is also having surprisingly little effect on social
welfare. Infant mortality declined at a rate of 2.5% per year since 1990. This rate is
higher than in Pakistan (1.5%) or India (1.7%), but slower than in other Asian countries
that have not grown as well as China: Philippines (3.0% rate of decline), Thailand
(3.6%), Bangladesh (3.8%), Indonesia (4.7%), or Vietnam (5.2%). High-income
countries in which infant mortality is already low have also managed to continue high
rates of decline (3.6% per annum). In this sense we can say that China’s growth in the
last 15 years has brought less social improvement than one would have expected. The
top leadership in China has recognized this slow social improvement and rising
inequality, and focuses now on developing a more “harmonious society.”

The lack of social progress partly reflects the pattern of growth noted above. A
lot of resources have gone into investment, especially for export. This has created a lot of
jobs and helped many poor families increase their income and move out of poverty. But
government spending has grown less rapidly, and that is reflected in the low share of
GDP that is accounted for by public health expenditure. China spends 2% of GDP on
public health, compared to 3% for other middle-income countries and much higher levels
in rich countries. It spends 2% of GDP on public education, compared to 4% in other
middle-income developing countries. China, ironically, has one of the most privatized health care and education systems in the world in which the majority of expenditure is paid for privately, out of peoples’ pockets.

Increasing the social benefit of further growth in China will require a number of measures. One important issue concerns rights over agricultural land. The ongoing process of urbanization requires alienating some land out of agriculture to urban uses. At the moment this is handled in an administrative way, with relatively little benefit accruing to the farmers who are displaced. There are reasons why the country may not want the full market value of the land to go to individual peasant families, but there is a lot of scope to increase the compensation to rural families. This would ease their adjustment to urban life and reduce inequalities. Also, newspaper reports suggest that the current, non-transparent system is often a source of abuse, leading to unhappiness and growing protest.

To be fair to local governments, currently they have few sources of revenue to finance their infrastructure needs and social expenditure. There is a need to overhaul the inter-governmental fiscal system, to ensure that every community can pay for basic health and education and to devise sustainable funding sources for local infrastructure. Adequate financing of local services and a more market-based system of land transfer would greatly ease the inevitable process of rural-urban migration.

While rural-urban differences are the most striking aspect of inequality in China, another important dimension is the large gap that has opened up between coastal cities in the southeast and cities in the interior and northeast of China. The difference in per capita GDP between coastal cities and interior cities is eight-fold. There are a number of
factors at work here; coastal locations have inherent advantages of being close to the
global market. But the inherent advantages are magnified because many coastal cities
have created good investment climates for private investors. Interior cities still tend to be
dominated by state enterprises, which have about one-third the rate of return as private
enterprises (Dollar and Wei, 2006). The mindset of local government in the interior and
northeast is different from along the coast, less investor friendly and more focused on
protecting local firms.

As noted earlier, wages in coastal cities have risen sharply. There is some
ongoing labor migration into these cities, but there is not huge scope for relocation of
population to the existing production centers. A key issue for China is whether more
cities in the interior and northeast can reform their investment climates and attract labor-
intensive production. Many of these cities have 3–5 million people and thus are of scale
for efficient production; most have good transport links as well. Creating a better
investment climate in these cities is critical if China’s growth is to continue smoothly and
if the whole population is to benefit from that growth.

These different challenges that China faces are inter-related. China’s current level
of urbanization – about 40% of the population – is low for its level of income, especially
given the scarcity of arable land and water. Rural-urban migration is a source of growth
as people move from low productivity agriculture to higher productivity urban
employment and also leave the remaining rural population with a better ratio of land to
people. But for this rural-urban migration to proceed relatively smoothly, it is important
that the still large rural population have good public health and education and some assets
that they can bring to the city. Reform of interior cities is important, otherwise too many
people will try to move to the coast and create congestion problems. Urbanization is much more energy-intensive than rural life, hence the explosive growth of energy demand. Standards for buildings and cars, gasoline prices, and investments in urban mass transit are critical if the growth of energy demand and its environmental consequences are to be handled well. For preparation of its most recent urban plan, Beijing took the unprecedented step of polling citizens about priorities: no surprise for those of us living in Beijing, the two most important issues on peoples’ minds are pollution and traffic. Redirecting Chinese production to meet these diverse domestic needs will be good for China and also a necessary adjustment in the world economy. But if the financial system does not handle this adjustment well, then a lot of potential output can easily be lost in financial crisis and its aftermath.

5. The rise of China and implications for the developing world

What I have argued so far is that the “rise of Asia” is something of a myth, whereas the rise of China is real. For a long time, the health of developing economies depended to a considerable extent on growth in the largest economy, the U.S. The U.S. will continue to be important, but as China moves quickly toward becoming the largest economy in the world, the health of China’s economy will be at least as important to the developing world as the health of the U.S. economy. Continued success of China will pose challenges for the rest of the developing world, but also great opportunities. On the other hand, if China manages its challenges badly, the consequences for much of the developing world will be negative.
One can imagine a whole continuum of outcomes for China, but for expository purposes I will focus on a scenario in which China handles all of its challenges badly and one in which it handles its challenges well. The “bad scenario” starts with a sharp global contraction sometime in the next few years. It will be a contraction with high U.S. dollar interest rates because the U.S. has not contained its demand for overseas capital, while the world has diminished interest in purchasing additional U.S. assets. A sharp slowdown in the world economy would most likely lead to falls in many commodity prices. So, the contraction could have some similarity to the one in the early 1980s, when the combination of high interest rates and falling commodity prices led to debt crises in a range of developing countries, particularly ones that had been dependent on commodity exports and had prospered in the prior boom.6

In the bad scenario China is likely to have a growth recession as it finds that it can no longer increase exports at the same rate, but the financial and corporate sectors do a poor job of reorienting the economy toward domestic demand. There may well be some significant losses in the banking sector that have to be covered by the government, but the reservoir of US$1 trillion in reserves means that there is virtually no chance of a serious crisis. To restore growth the government can resort to fiscal expansion, both social spending and infrastructure investment, so China is likely to grow fairly well even in the bad scenario.

A second key aspect of the bad scenario is that China does not succeed in increasing energy efficiency and resource efficiency more generally. Once the global recession ends, China will continue to generate large demand for commodities, benefiting commodity exporters. But without significant increases in energy efficiency, China’s
growth is likely to lead to competition over ever-scarcer energy supplies. By the middle of the century global warming will be a serious issue for the world. The specific numbers in the Stern report on the economics of climate change can be debated, but there is certainly a very serious risk that climate change will impose large costs on the developing world (UK Treasury, 2006).

The third aspect of the bad scenario is that issues of inequality and social harmony in China are not addressed very successfully. A somewhat reduced growth rate in China makes it difficult to generate all the jobs needed to absorb surplus rural labor. If interior cities fail to improve their investment climates, then they will continue to lag behind, and population will try to cluster in coastal cities, creating self-defeating congestion. The high level of inequality may well generate rising crime and social conflict.

I hope that the bad scenario sounds scary enough to convince everyone of the importance of achieving the good scenario. The good scenario depends not just on China’s management, but also on cooperation between China and the rest of the world, especially the U.S. Resolving the current global economic imbalance requires coordinated effort between China and the U.S., in which the U.S. takes fiscal steps to increase public savings and policy measures to encourage private savings. China in turn needs to encourage greater consumption through expansion of its pension and health safety net to reduce household insecurity, increased public spending on education and health, and further exchange rate appreciation. Managing this well would be the most important contribution that China and the U.S. can make to healthy growth in the developing world in the next five years. In the good scenario, more and more of the
developing world’s trading opportunities would be in China, rather than the U.S. or other developed markets.

Looking longer term, the good scenario also has China and the U.S. cooperating on energy efficiency and curbing greenhouse gases. Some kind of global limits on greenhouse gas emissions with a trading system will almost certainly be required, and China and the U.S. will be the keys to reaching this kind of agreement. The right incentives and subsidies could well usher in a period of technological advance that addresses energy efficiency but also has all kinds of unpredictable spillover benefits.

The final piece of the good scenario is that China successfully improves the investment climate in a range of interior cities, while at the same time providing the rural population with better education, health, water, and other services. The better rural services equip some people for the successful transition to urban life, while at the same time making a better life for the large rural population that will remain in agriculture. These kinds of reforms will tend to keep China in labor-intensive production longer, posing competition for the labor abundant parts of the developing world (eg, nearby Vietnam and Bangladesh). At the same time, these reforms would keep China’s aggregate growth rate higher and make for larger overall demand, creating greater opportunities in the aggregate for the developing world.

6. Conclusion: a multi-polar century?

The “Asian century” is something of a myth. Looking at the past 15 years, only China has risen strongly in the global economy. Looking ahead, China has the potential to continue to grow well and to provide an ever greater market for products from other
developing countries. If India sustains its rapid growth of the past five years it will also become a large player in the global economy. But it would be premature to write off the rich world. The U.S. in particular, with a relatively dynamic economy and population growth higher than China’s, is likely to be an important part of global growth in the next few decades. Successful growth of the global economy in the near future requires that China and the U.S. smoothly resolve the unsustainable trade imbalance; if they do a poor job of this, it will have negative repercussions for the developing world.

Looking further down the road, China and the U.S. are the two big users of energy and the two big emitters of greenhouse gases, and India is coming up strongly. If these big economies do not reach some accommodation on capping global emissions and distributing the costs fairly, the best estimates suggest that there will be disastrous economic consequences for the developing world. Hence the label “multi-polar century” seems more appropriate than “Asian century.” If things go badly, it will most likely be because China, India, and the U.S. have cooperated poorly on short-term and long-term challenges. On the other hand, good collaboration among the existing superpower and the emerging powers could usher in a long period of harmony and successful development.
References


**Table 1**

<table>
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<tr>
<th>Number of Countries</th>
<th>Pop. (million)</th>
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*Sources: World Development Indicators; World Bank WITS database.*
### Table 2

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**Sources:** World Development Indicators; Barro and Lee (2000).
### Table 3

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<th>Average import tariff (percent)</th>
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*Source: UNCTAD TRAINS database; World Development Indicators.*
Table 4

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<th>Country (Year)</th>
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<th>Output lost to power outages (percent of sales)</th>
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Sources: www.enterprisesurveys.org; World Bank (2006).
Figure 1. Distribution of Increase in Global GDP, 1990-2005, by Region/Country (percent)

- CHN, 28.14
- USA, 19.31
- OECD, 18.33
- IND, 9.46
- JPN, 2.95
- LAC, 7.14
- MNA, 3.82
- ECA, 1.58
- Rest of developing Asia, 7.13
- AFA, 2.14

Figure 2: ICRG Property Rights/Rule of Law Index and Freedom House Democracy Index, 79 Developing Countries, 2005

ICRG = -0.1116FH + 3.676

R² = 0.024
(n=79)
End Notes


2 Lardy (2002) analyzes the importance of liberalizing foreign trade and investment for China’s modern development.

3 Dollar, Hallward-Driemeier, and Mengistae, 2005, show that these investment climate indicators affect firm productivity and profitability in a study covering Bangladesh, China, India, and Pakistan.

4 India’s reform efforts are described in Acharya et al., 2003; and Srinivasan, 2001.

5 Freedom House ranks political freedom on a scale of 1-7 with 1 most democratic and 7 most authoritarian. ICRG ranks countries’ property rights/rule of law strength on a scale of 1-5 with 1 as poor property rights and 5 as strong property rights. Figure 2 has 79 developing countries for which both data sources are available; some countries have identical data points and thus there are only 34 different combinations in the figure. There is a very slight tendency for more authoritarian countries to have weaker property rights, but the slope is not statistically different from zero and the R-squared of the relationship is 0.02, indicating no correlation.

6 For more analysis of how a hard landing may unfold, see Roubini and Setser, 2005, and Williamson, 2005.