China in the World Economy

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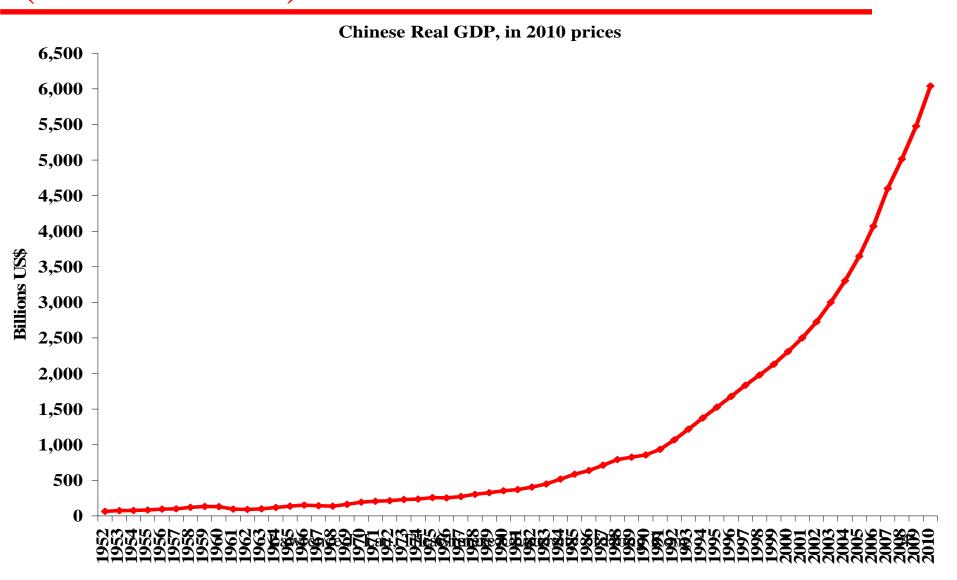
Outline

- **♦** Introduction
- ◆ China in the World Economy
- ◆ The International Monetary Order
- Concluding Remarks

Introduction

- ◆ China has made tremendous progress in its economic development since it began its economic reform and opened to the World in 1978. China is currently the fastest growing economy in the World—averaging 9.8% per annum over the past 33 years. It is historically unprecedented for an economy to grow at such a high rate over such a long period of time.
- ◆ Between 1978 and 2010, Chinese real GDP grew more than 20 times, from US\$304 billion to more than US\$6.04 trillion (2010 prices) to become the second largest economy in the World, after the U.S.
- ◆ By comparison, the U.S. GDP (approx. US\$14.66 trillion) was 2.4 times Chinese GDP in 2010.

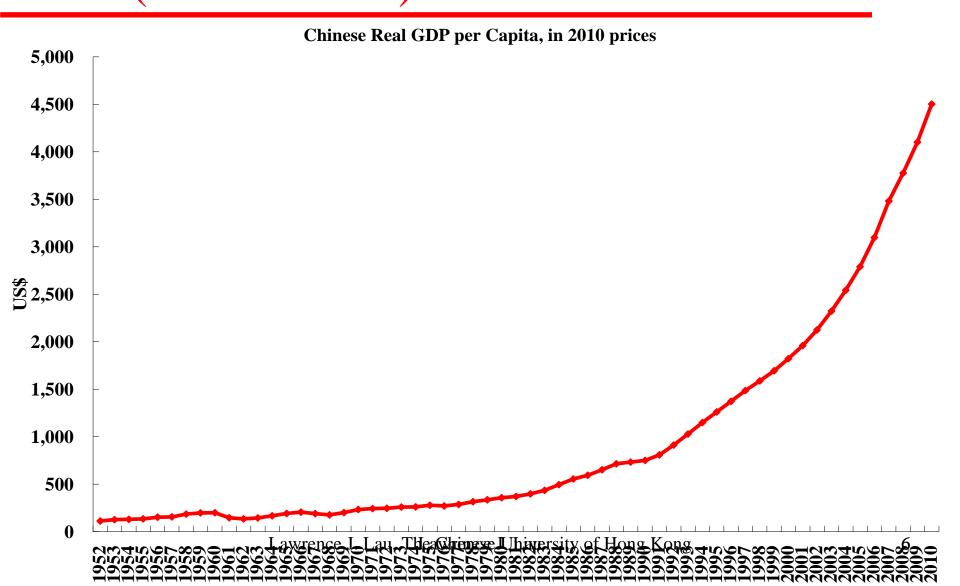
Chinese Real GDP in US\$ Since 1952 (2010 Prices)



Introduction

- ◆ Despite its rapid growth, in terms of its real GDP per capita, China is still a developing economy.
- ◆ Between 1978 and 2010, Chinese real GDP per capita grew almost 15 times, from US\$316 to US\$4,503 (in 2010 prices). By comparison, the U.S. GDP per capita (approx. US\$47,274) was 10.5 times Chinese GDP per capita in 2010.

Real Chinese GDP per Capita in US\$ Since 1952 (2010 Prices)



Introduction

- ◆ While many problems have arisen in the Chinese economy within the past decade— for example, income disparity--both inter-regional and intra-regional--uneven access to basic education and health care, environmental degradation, inadequate infrastructure and corruption—it is fair to say that everyone has benefited from the economic reform and opening since 1978, albeit to varying degrees, and few want to return to the central planning days.
- ◆ The Chinese Government leaders have also demonstrated their ability to confront important challenges and solve difficult problems.
- ◆ China is one of the very few socialist countries that have made a smooth transition from a centrally planned to a market economy. It is a model for other transition economies such as Vietnam and potential transition economies such as Cuba, Laos, and North Korea.

Thirty years of Chinese Economic Reform

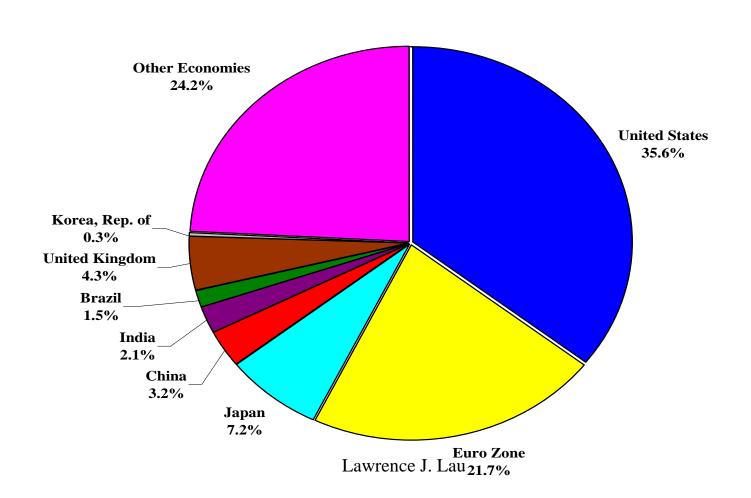
	Growth Rates percent per annum	
	Period I	Period II
	1952-1978	1978-2010
Real GDP	6.15	9.79
Real GDP per Capita	4.06	8.66
Exports	9.99	17.23
Imports	9.14	16.37
Inflation Rates (GDP deflator)	0.50	5.47
	1952-1978	1978-2009
Real Consumption	5.05	8.96
Real Consumption per Capita	2.99	7.79

The Shifting Centre of Gravity of the World Economy

- ◆ The centre of gravity of the World economy is gradually shifting from the United States and Europe to Asia, including both East Asia and South Asia.
- ◆ The East Asian economies are partially de-coupled from the rest of the World economy, as evidenced by the performance of China, India and other East Asian economies during the 2007-2009 global financial crisis.
- ◆ However, the Chinese and East Asian economies are not large enough to turn the World around. The idea of a G-2 consisting of the United States and China is premature.

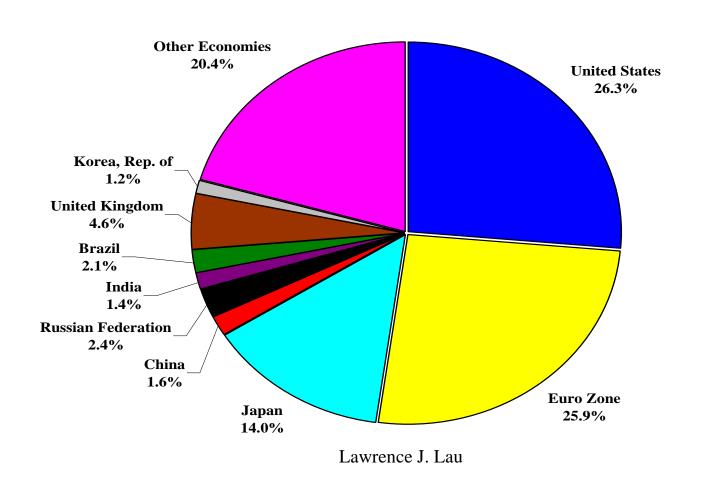
The Distribution of World GDP, 1970, US\$

The Distribution of World GDP in 1970, in USD



The Distribution of World GDP, 1990, US\$

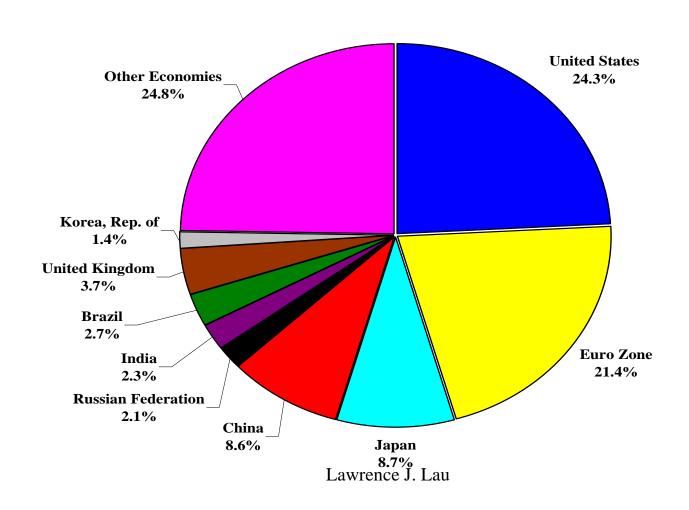
The Distribution of World GDP in 1990, in USD



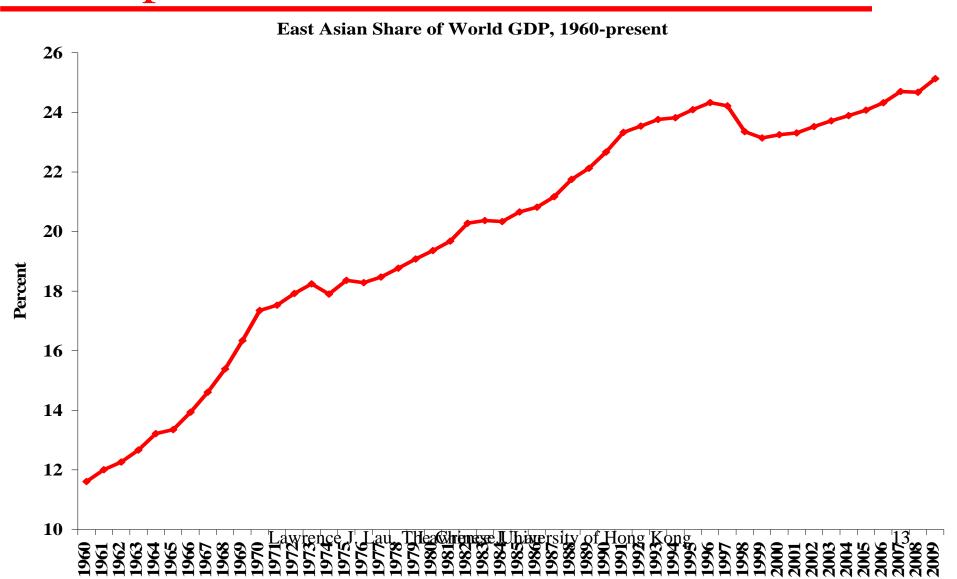
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The Distribution of World GDP, 2009, US\$

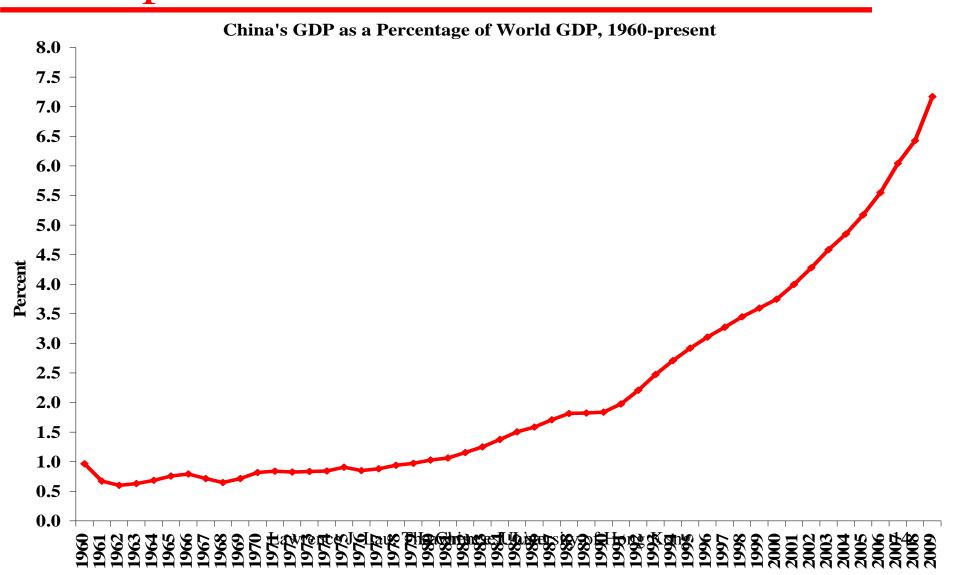
The Distribution of World GDP in 2009, in USD



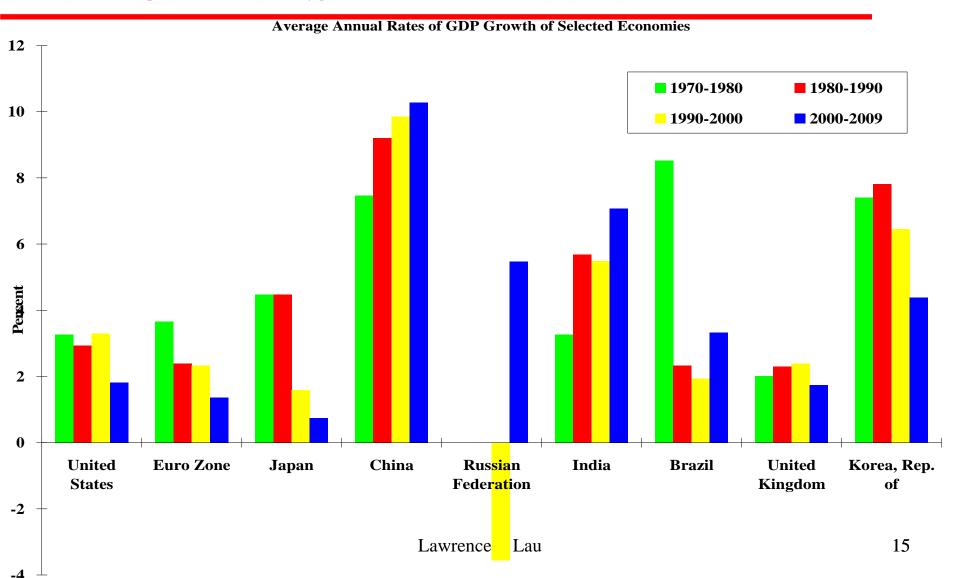
East Asian Share of World GDP, 1960-present



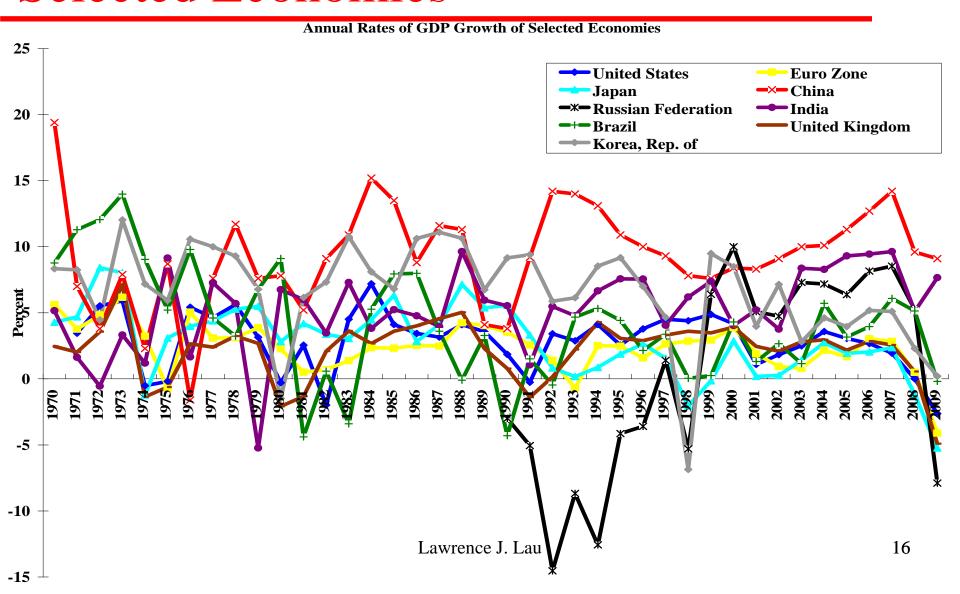
China's Share of World GDP, 1960-present



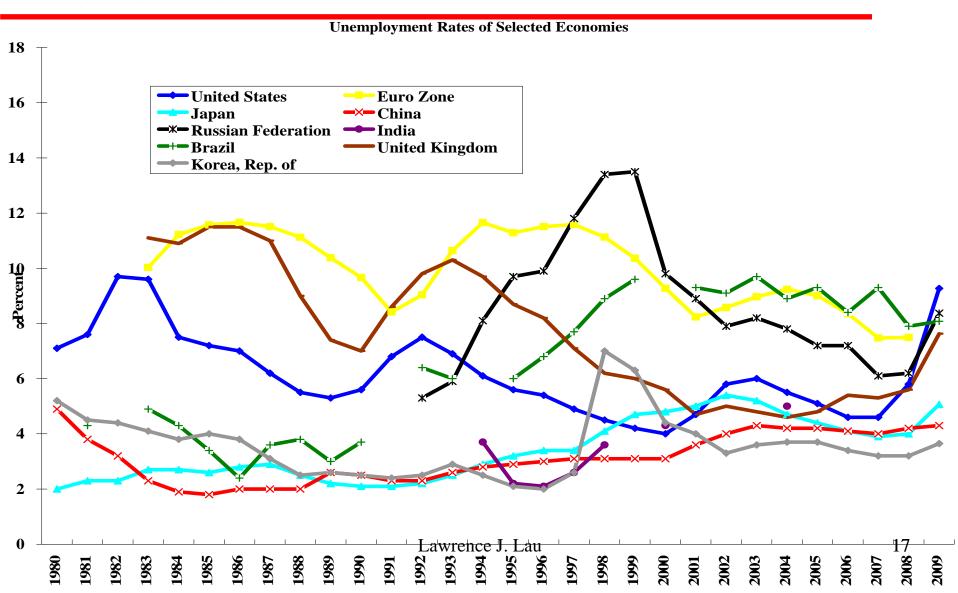
Average Annual Rates of Growth of Real GDP of Selected Economies



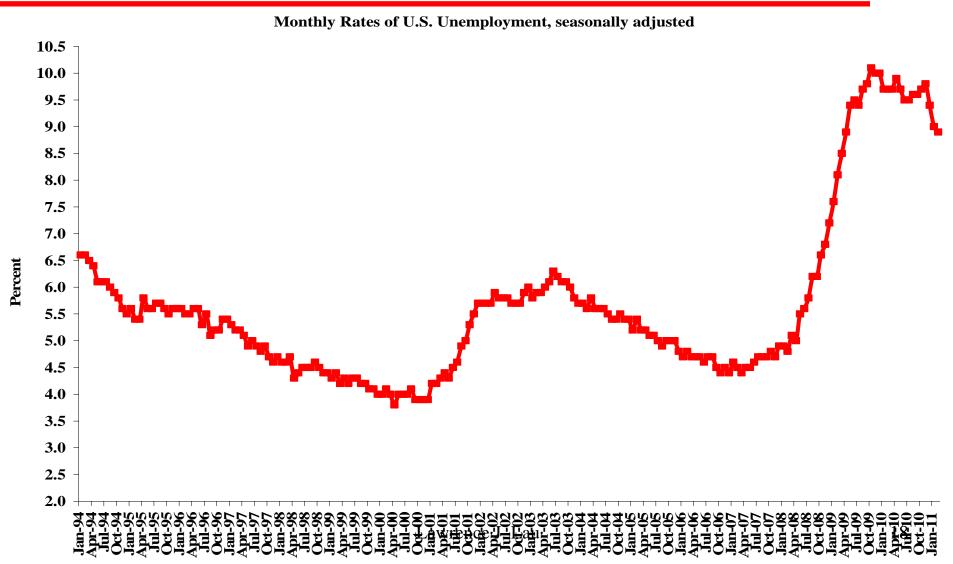
Annual Rates of Growth of Real GDP of Selected Economies



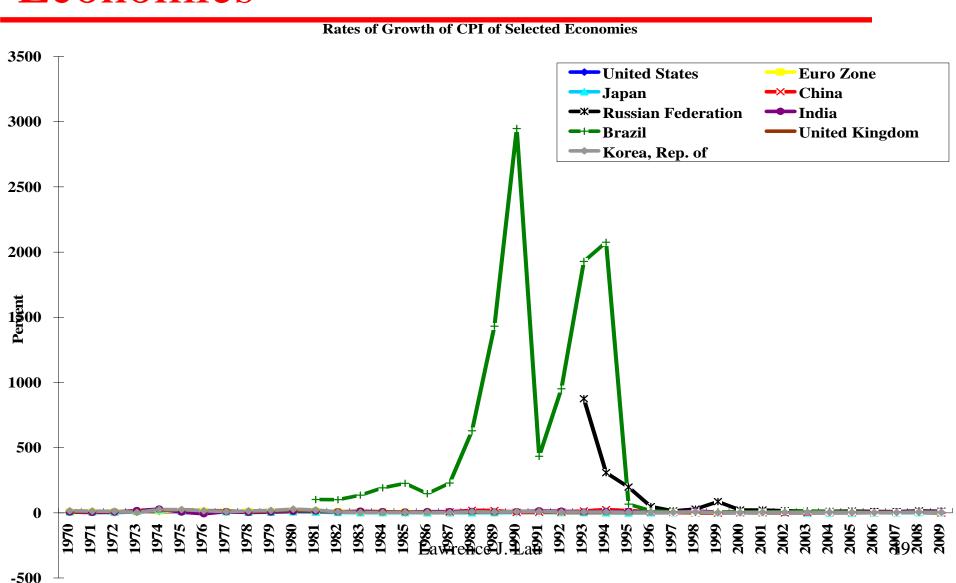
The Rate of Unemployment in Selected Economies



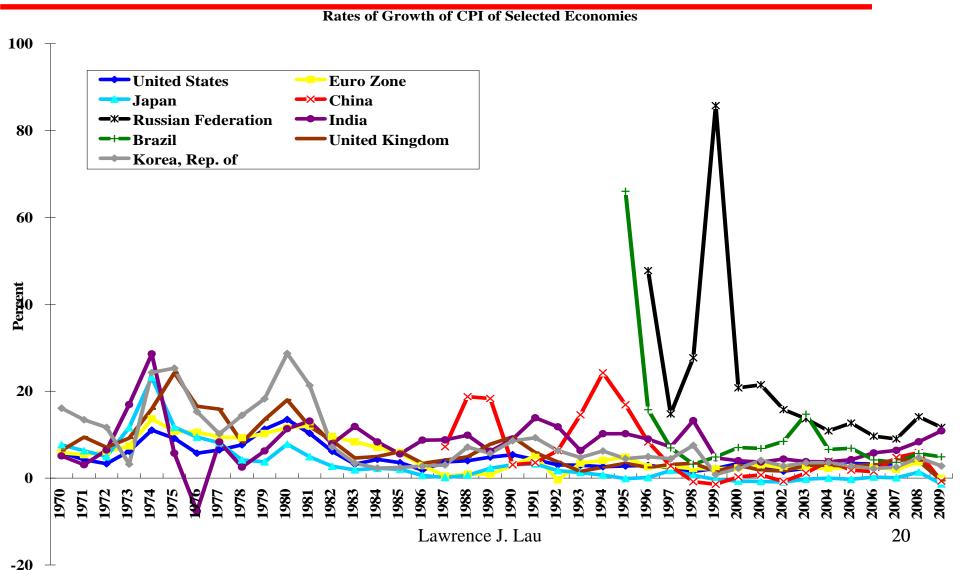
U.S. Unemployment Rate Seasonally Adjusted



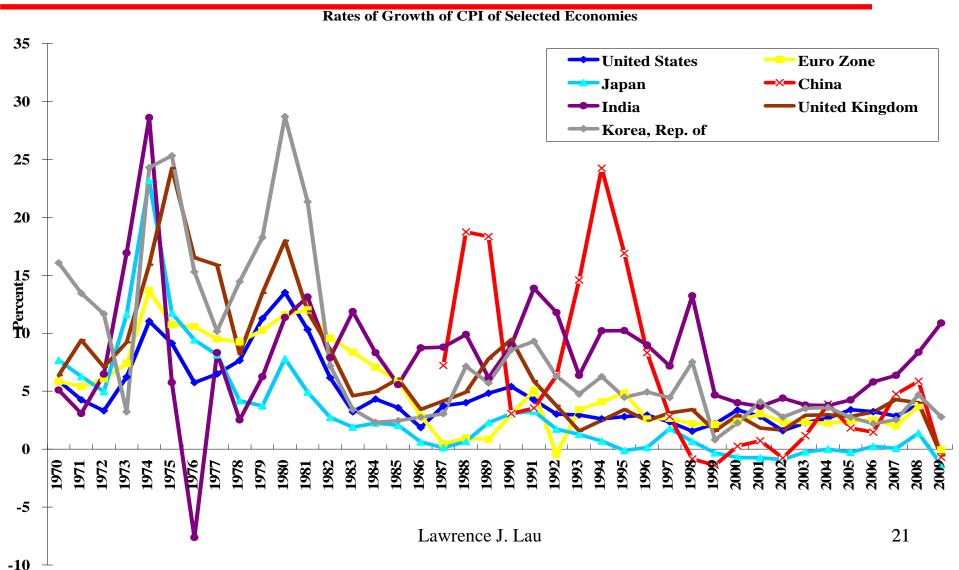
The Rate of Inflation in Selected Economies



The Rate of Inflation in Selected Economies (without Brazil)

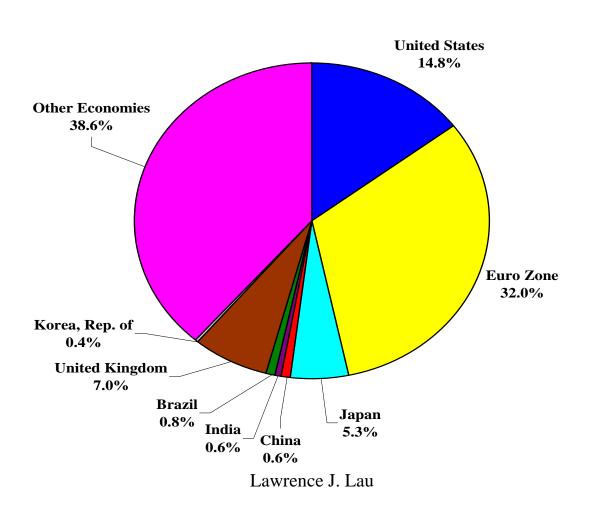


The Rate of Inflation in Selected Economies (without Brazil and Russia)



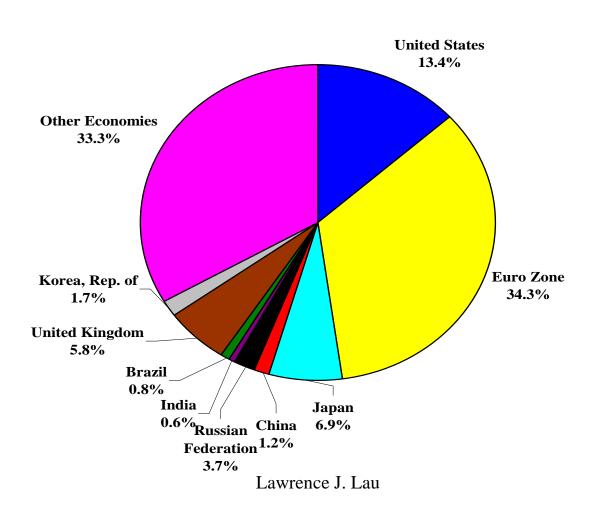
The Distribution of Total International Trade in Goods and Services, 1970

The Distribution of Total International Trade in Goods and Services in 1970



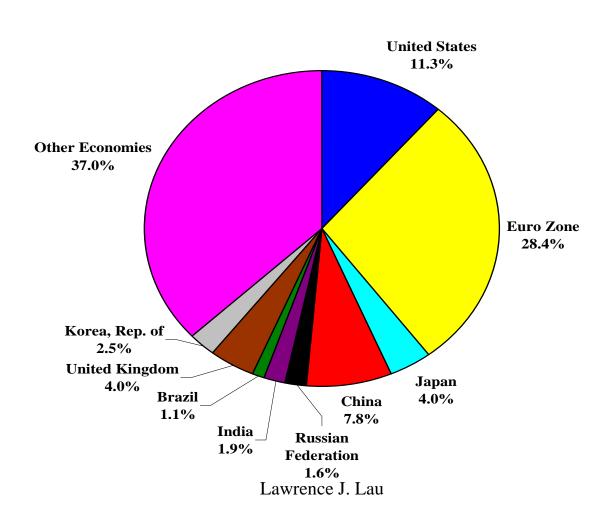
The Distribution of Total International Trade in Goods and Services, 1990

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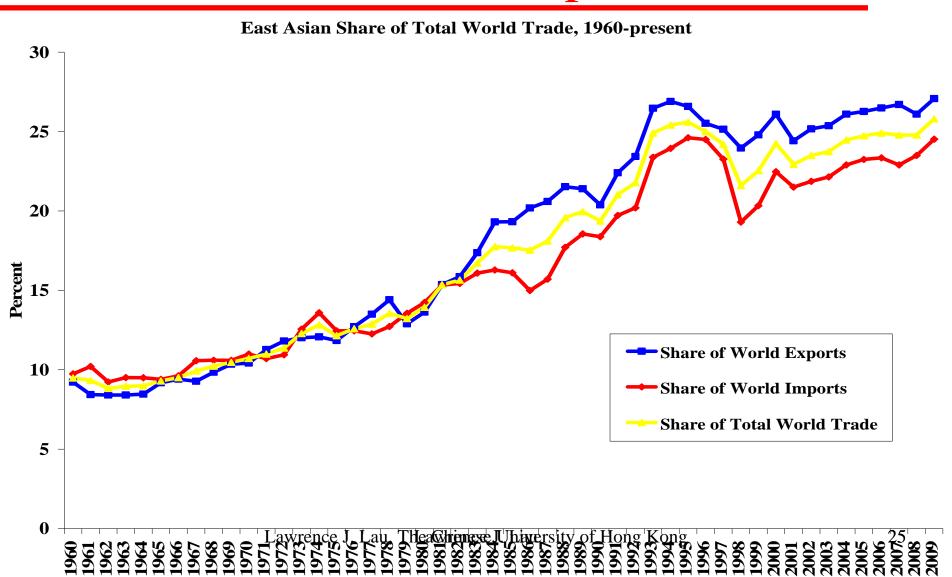


The Distribution of Total International Trade in Goods and Services, 2009

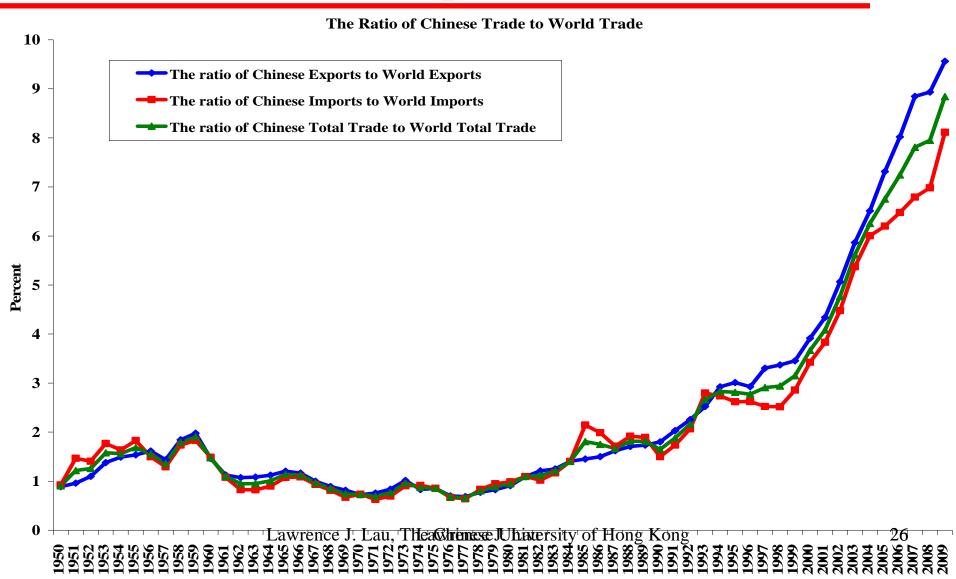
The Distribution of Total International Trade in Goods and Services in 2009



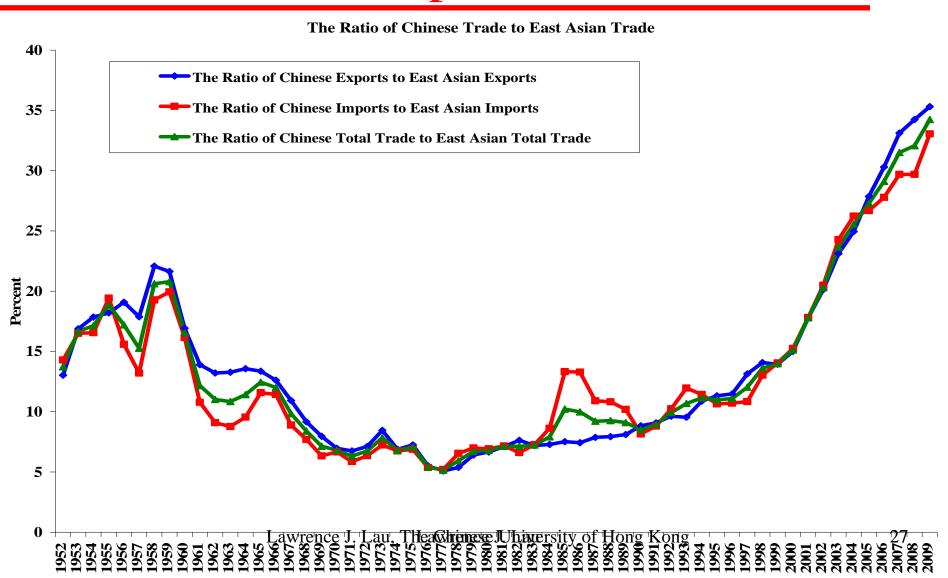
The Rising Share of East Asian Trade in Total World Trade, 1960-present



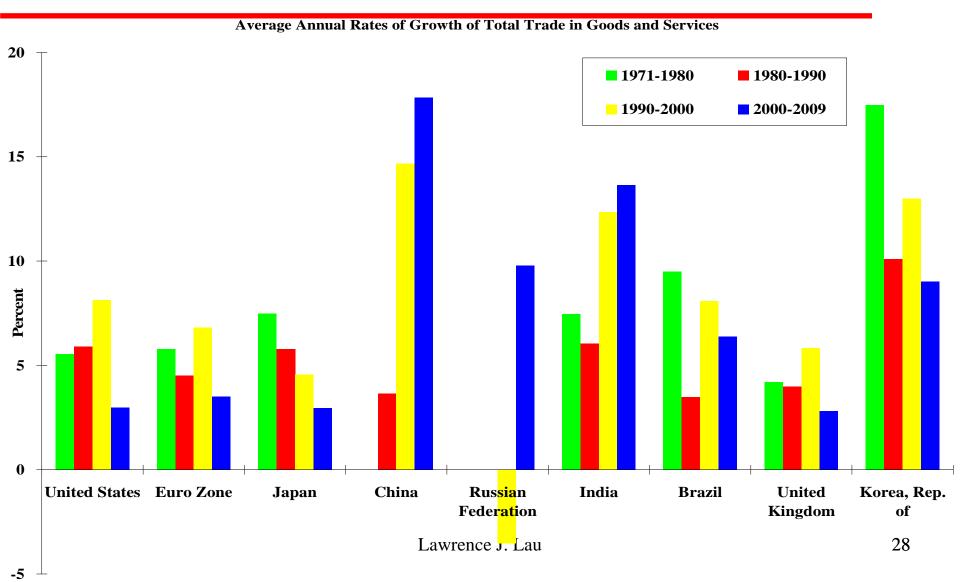
The Share of Chinese Trade in Total World Trade, 1950-present



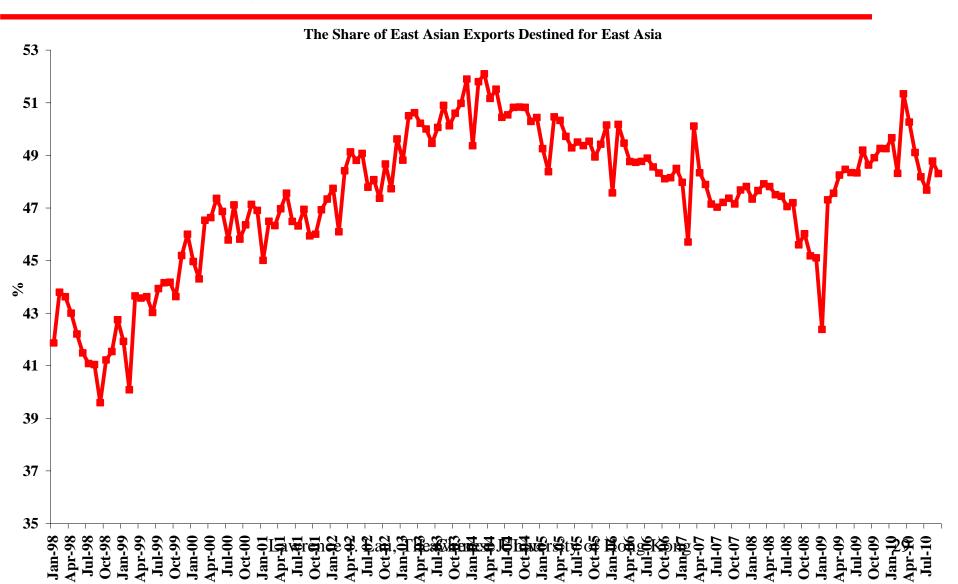
The Share of Chinese Trade in Total East Asian Trade, 1952-present



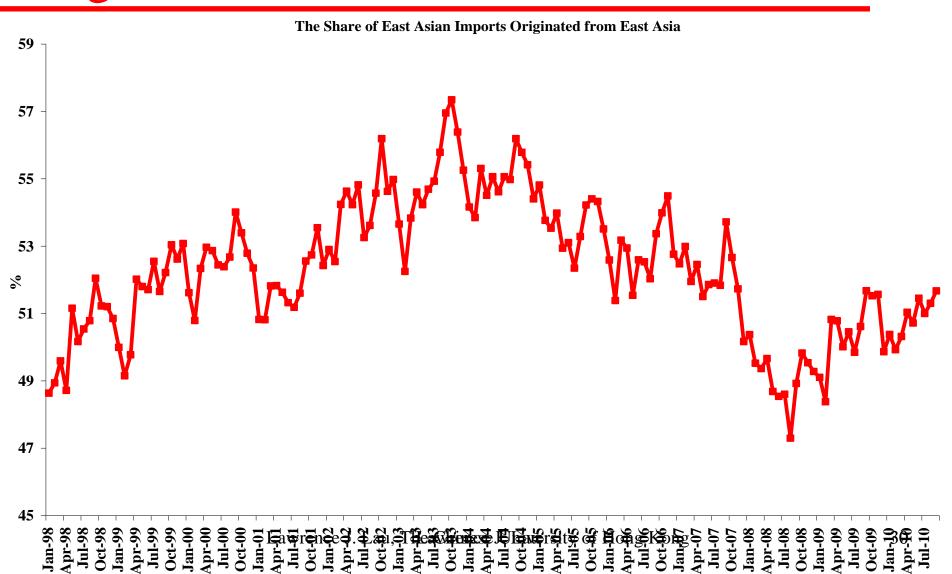
Average Annual Rate of Growth of Total International Trade in Goods and Services



The Share of East Asian Exports Destined for East Asia



The Share of East Asian Imports Originated from East Asia



Market Capitalization of Stock Exchanges Year End 2009 (US\$)

♦ U.S.A. 15.1 trillion

◆ Europe 10.7 trillion

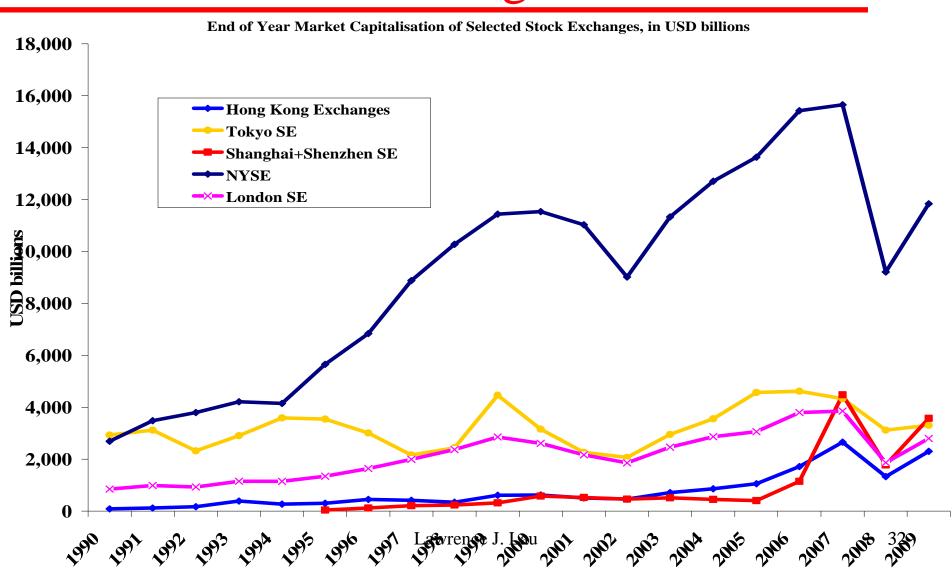
◆ East Asia 12.1 trillion

Exchanges:

- ◆ U.S.A.: NASDAQ and NYSE
- ◆ Europe: Athens Exchange, BME Spanish Exchanges, Borsa Italiana, Budapest SE, Cyprus SE, Deutsche Borse, Irish SE, London SE, Luxembourg SE, NYSE Euronext (Europe), Oslo Bors, SIX Swiss Exchange
- ◆ East Asia: Bursa Malaysia, Hong Kong Exchanges, Indonesia SE, Jasdaq, Korea Exchange, Philippine SE, Shanghai SE, Shenzhen SE, Singapore Exchange, Taiwan SE, Thailand SE, Tokyo SE Group

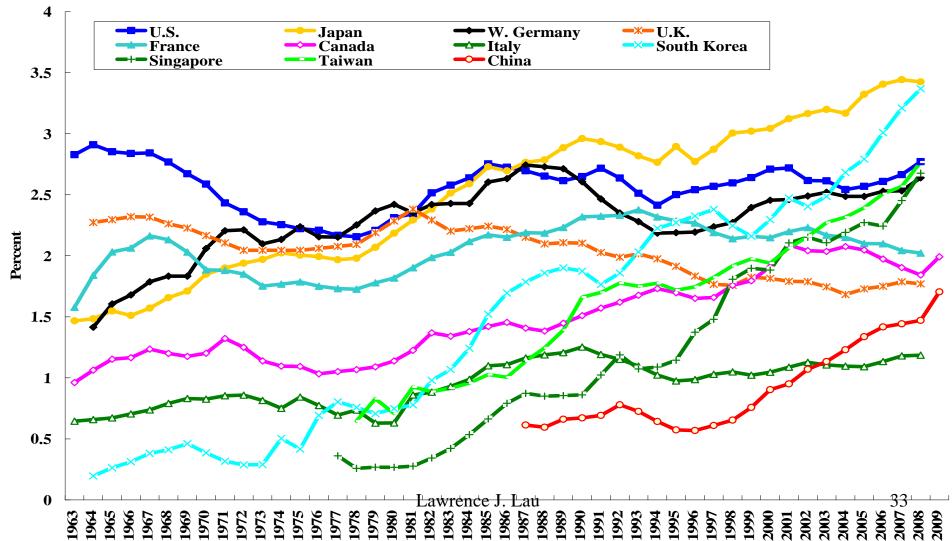
♦ Data source: World Federation of Exchanges

End of Year Market Capitalisation of Selected Stock Exchanges

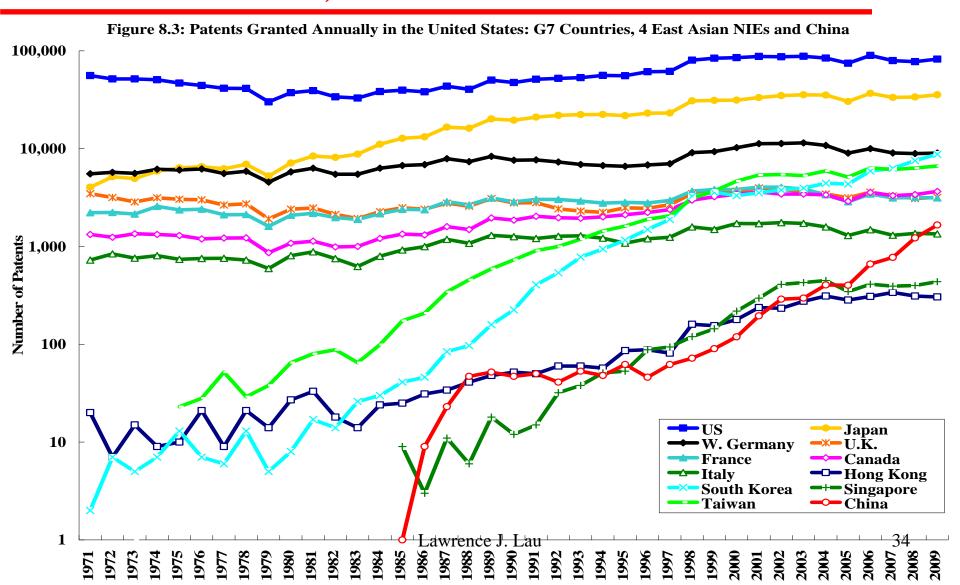


R&D Expenditures as a Ratio of GDP: G-7 Countries, 3 East Asian NIES & China

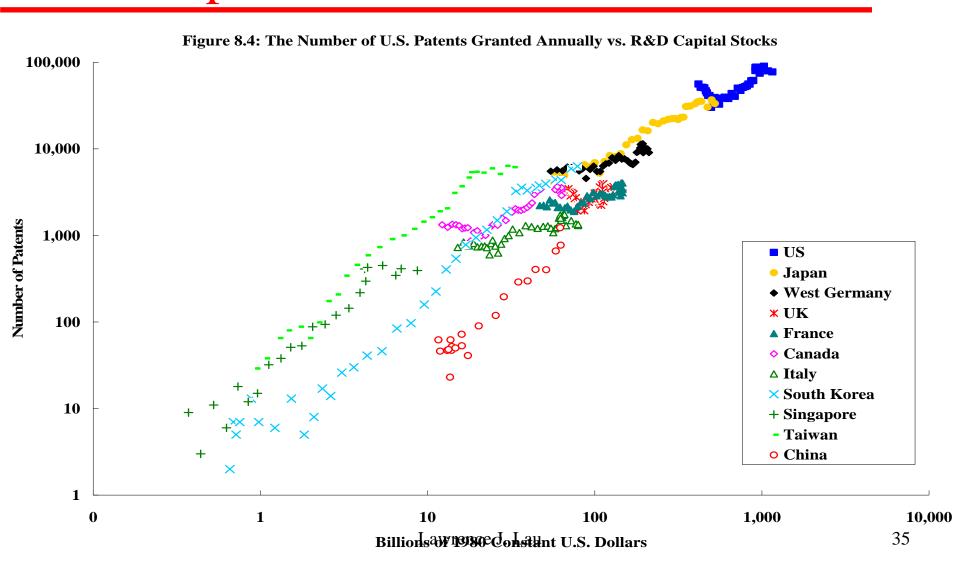
Figure 8.1: R&D Expenditures as a Percentage of GDP: G-7 Countries, 3 East Asian NIEs and China



Patents Granted in the United States: G-7 Countries, 4 East Asian NIEs & China



Patents Granted in the United States and R&D Capital Stocks, Selected Economies



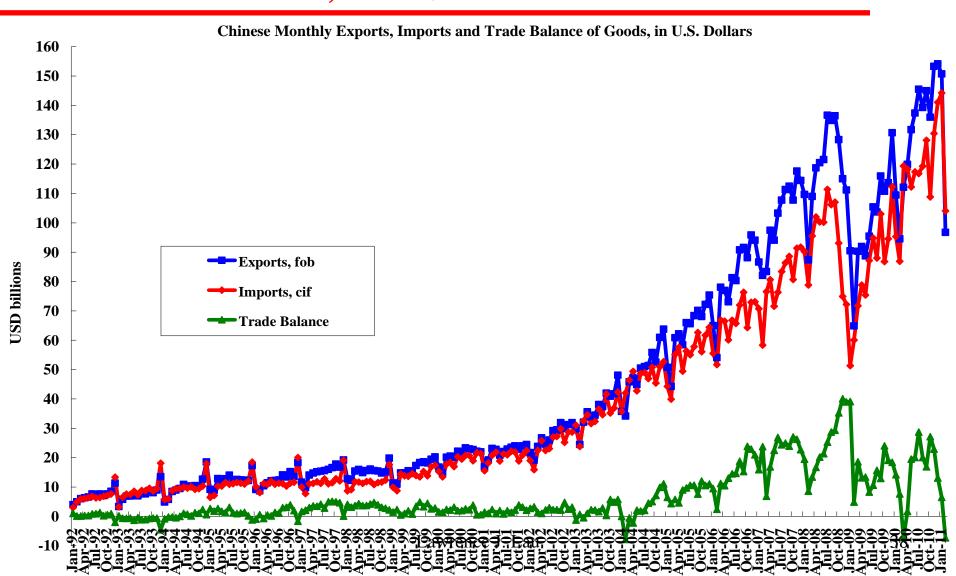
The International Monetary Order

- ◆ The World economy has been depending on the United States to supply the international liquidity (international money supply) to support international transactions in trade and investment and for any other purposes. The international transactions balances used by most economies consist of U.S. dollars held as foreign exchange reserves in their respective central banks, which in turn have mostly been earned through trade surpluses with the United States and other economies.
- ◆ The rapid growth of international trade and investment during the past two decades has significantly increased the demand for international liquidity. However, the United States may no longer be willing or able or both to continue to supply the international liquidity post the global financial crisis. For example, it may start running a trade surplus instead of a deficit and therefore reducing the outflow of U.S. Dollars to the rest of the World.
- ◆ The U.S. Dollar, because of the various weaknesses of its economy, is also under pressure to devalue and has been devaluing vis-a-vis 36 other currencies during the past year.

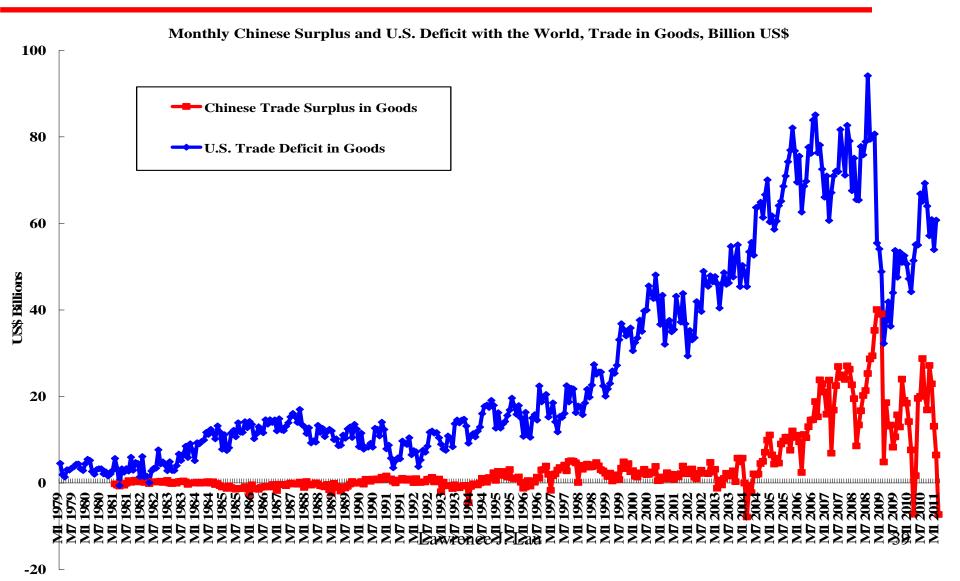
The International Monetary Order

- ◆ Three questions will arise:
- ◆ Will the supply of international liquidity continue to be adequate without the U.S. continuing to export U.S. Dollars?
- ◆ Are there alternatives to the use of the U.S. Dollar as an international currency?
- ◆ Will central banks around the World be willing to continue to hold a large proportion of their foreign exchange reserves in a depreciating currency?

Chinese Monthly Exports, Imports and Trade Balance, US\$



Monthly Chinese Surplus and U.S. Deficit with the World, Trade in Goods, Bill. US\$



Is the Renminbi (Yuan) Under-Valued?

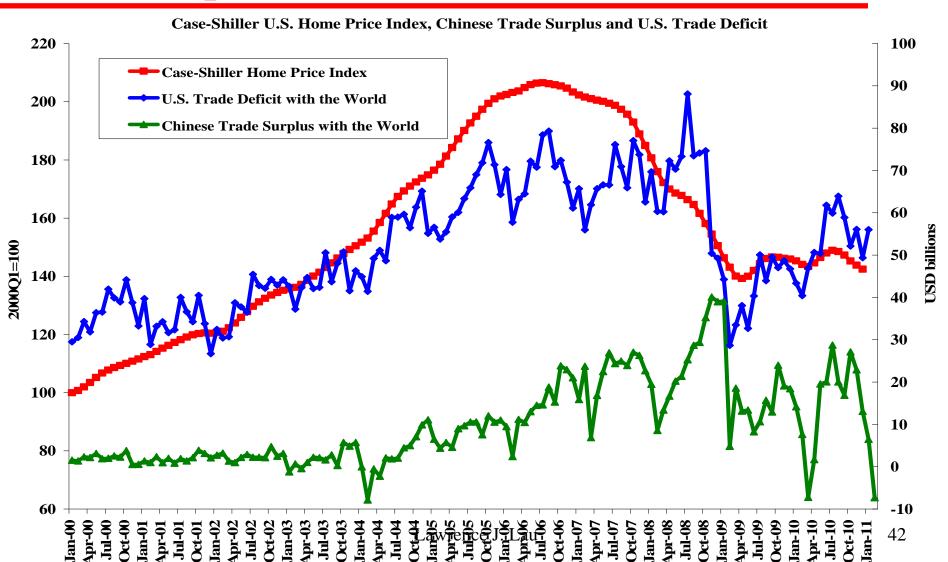
- ◆ The currency of a country is considered under-valued if the country runs persistent surpluses in trade in goods and services combined vis-à-vis the entire World. It is considered over-valued if it runs persistent trade deficits vis-a-vis the World.
- ◆ A bilateral trade surplus, even a persistent one, says nothing about whether a country's currency is under-valued because it may still have a near zero or even negative trade balance vis-à-vis the entire World. Most oil-importing countries have persistent bilateral trade deficits with oil-exporting countries. And that does not necessarily mean the currencies of the oil-importing countries are over-valued relative to the respective oil-exporting countries.

Is the Renminbi (Yuan) Under-Valued?

- ◆ The statistics on Chinese trade balances over the past three decades indicate that China has had essentially balanced trade in goods and services combined with the World until 2005. Its trade surplus vis-à-vis the World began to rise in 2005, reaching a peak in 2008, and then began to decline rather precipitously, partly in response to the global financial crisis. It has continued to fall and remained relatively low, especially when considered as a percentage of Chinese GDP.
- ◆ In contrast, the large U.S. trade deficit with the World existed since at least 1998, long before 2005, before China had any trade surplus with the World. What this means is that while there is evidence that the U.S. Dollar might have been and continues to be over-valued, there is no evidence that the Renminbi was under-valued prior to 2005.

 Lawrence J. Lau 41

Case-Shiller U.S. Home Price Index, Chinese Trade Surplus & U.S. Trade Deficit, Bill. US\$



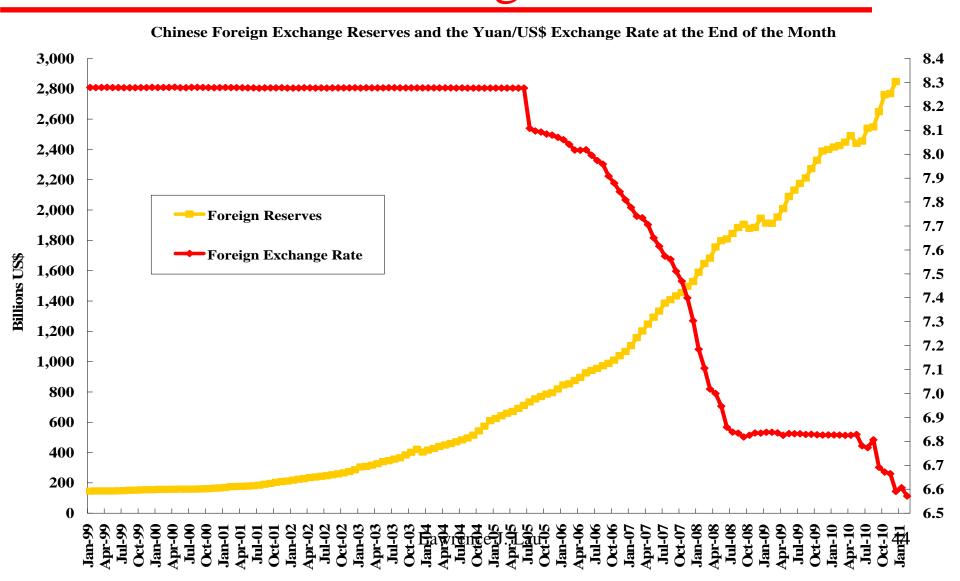
Is the Renminbi (Yuan) Under-Valued?

- ◆ In July 2005, the Renminbi was allowed to appreciate and rose more than 20% in nominal terms and 25% in real terms by the end of 2010.
- ◆ The Chinese trade surplus is expected to continue to decline until it returns to an essentially balanced situation as was the case before 2005.
- ◆ The long-term goal of the Chinese Government is to reduce the Chinese trade surplus vis-à-vis the World to zero. If the current trend continues, the goal of zero annual trade balance can probably be achieved by 2012, without necessarily any large adjustment in the nominal Yuan/U.S.

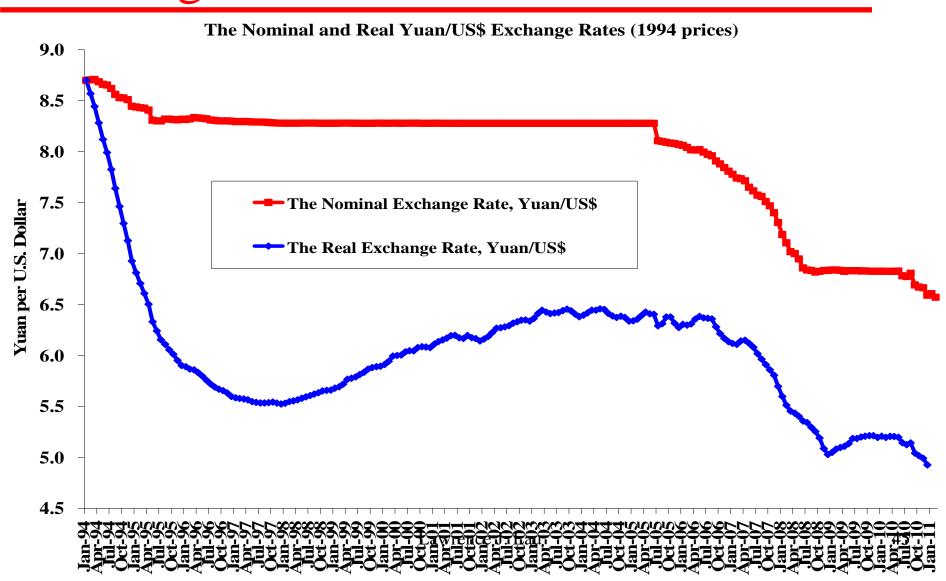
Dollar exchange rate.

Lawrence J. Lau

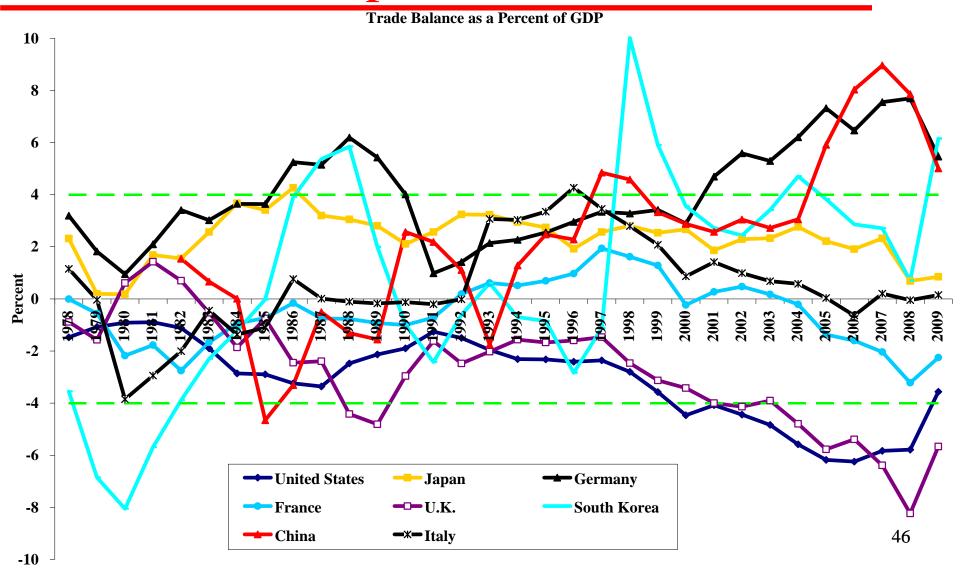
Chinese Foreign Exchange Reserves and the Yuan/US\$ Exchange Rate



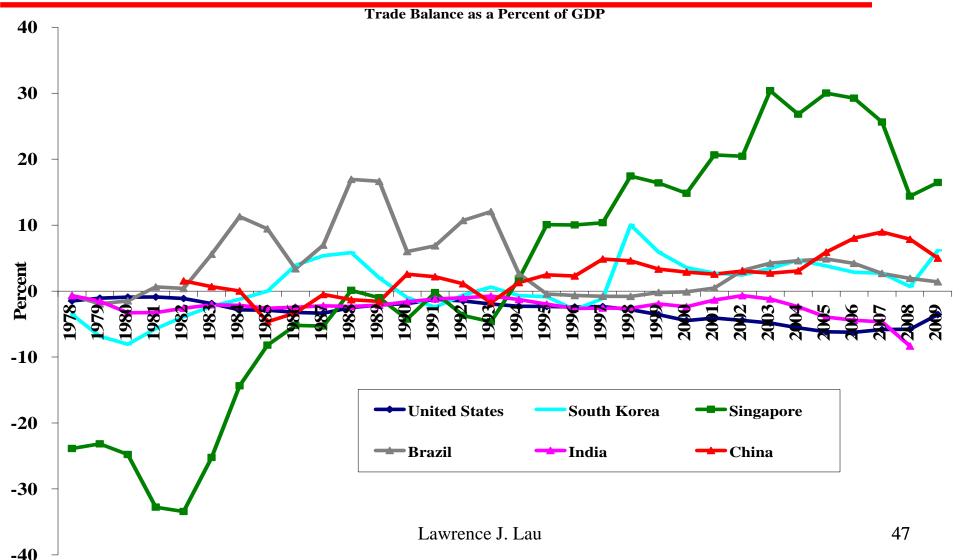
The Nominal and Real Yuan/US\$ Exchange Rates



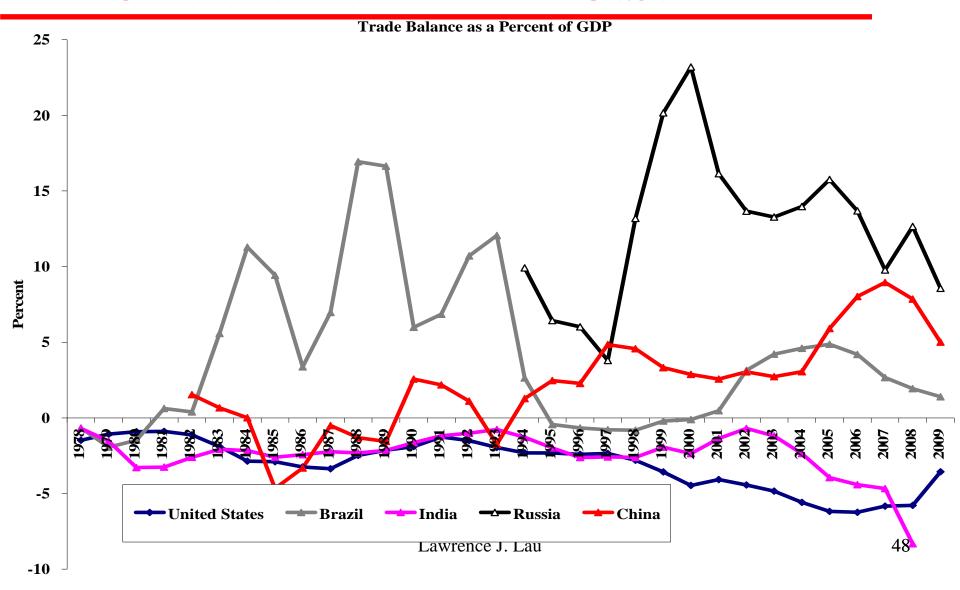
Trade Surplus (Deficit) as Percent of GDP, Selected Developed Economies & China



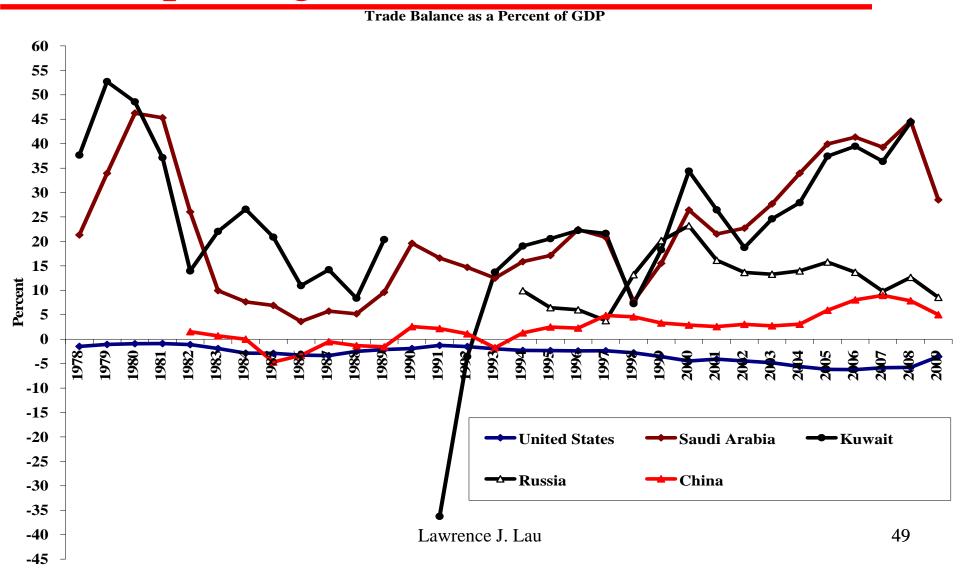
Trade Surplus (Deficit) as Percent of GDP, Selected Developing Economies & U.S.A.



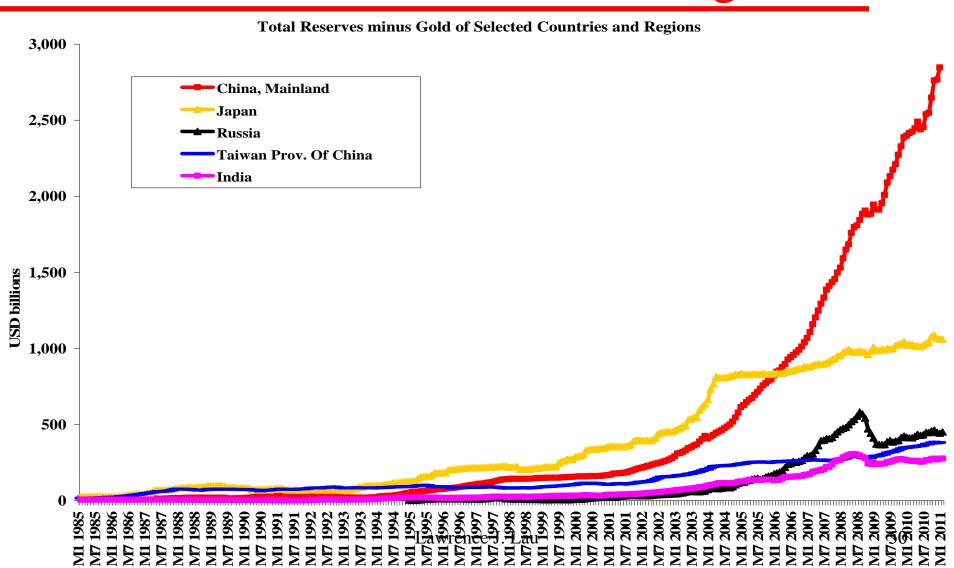
Trade Surplus (Deficit) as Percent of GDP, BRIC Economies and the U.S.



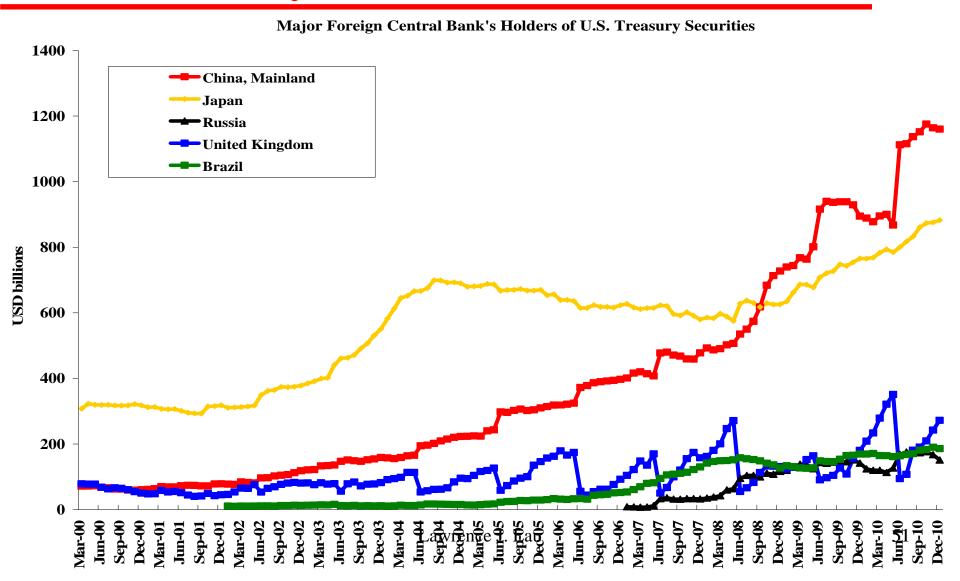
Trade Surplus (Deficit) as Percent of GDP, Oil-Exporting Economies, China and U.S.



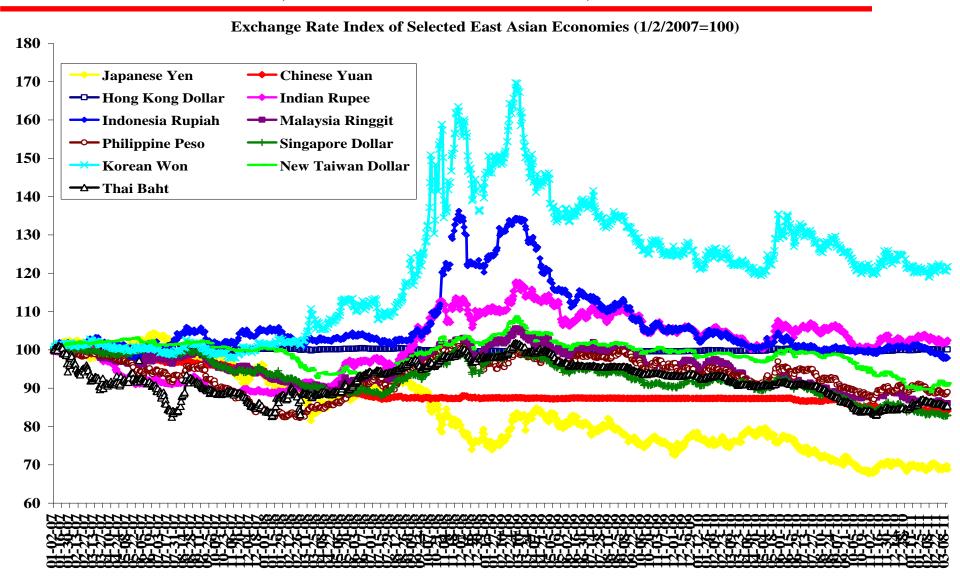
Total Foreign Exchange Reserves minus Gold, Selected Countries and Regions



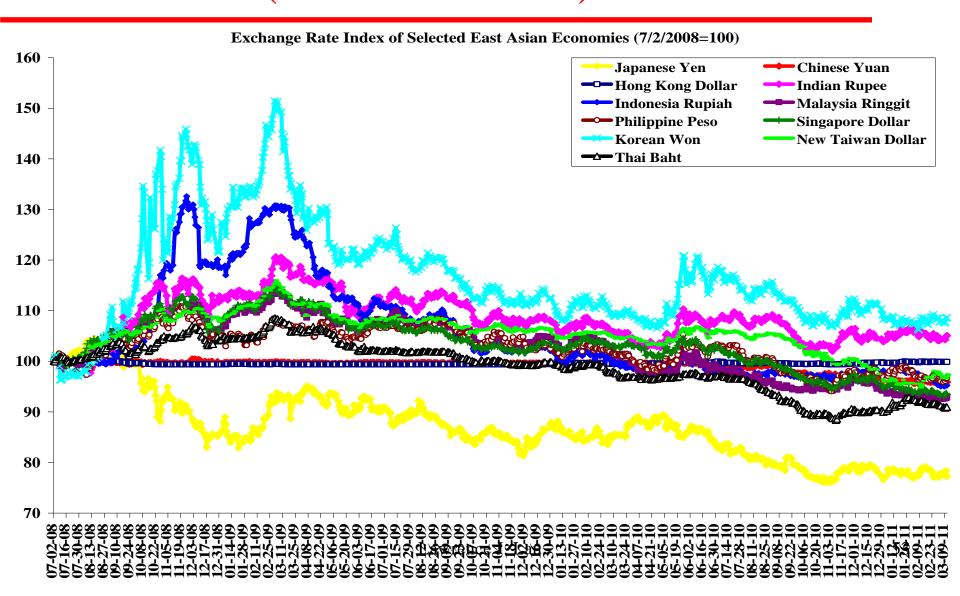
Major Foreign Central Banks' Holdings of U.S. Treasury Securities



Exchange Rates of Selected East Asian Economies (1/2/2007=100)

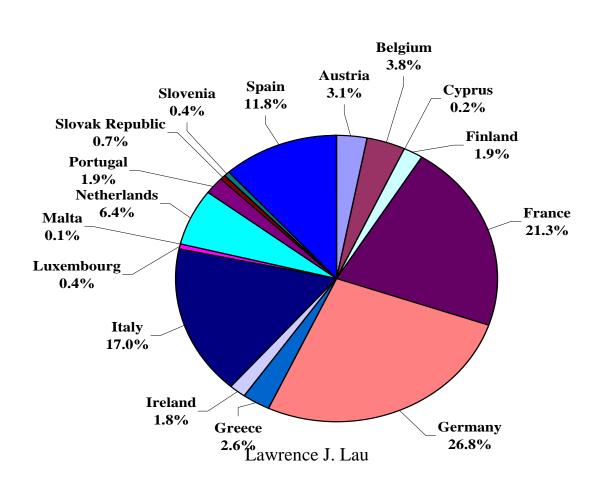


Exchange Rates of Selected East Asian Economies (7/2/2008=100)



The Distribution of the GDP of Euro Zone in 2009

Distribution of the GDP of Euro Zone in 2009, in Euro billions



The Internationalisation of the Renminbi

◆ The Renminbi has been current accounts convertible since 1994. However, it has not become fully capital accounts convertible. There still exist both inbound and outbound capital controls in China. Some categories of capital movements require prior government approval. But individual Chinese citizens can remit up to US\$50,000 per person overseas each year, with few questions asked.

The Renminbi as a Settlement Currency

- ◆ If the Renminbi were to be used as a settlement currency by Chinese exporters and importers with their trading partners in East Asia, it would greatly reduce the Chinese demand for U.S. Dollars for international transactions purposes, and the People's Bank of China, China's Central Bank, would no longer need to hold as much foreign exchange reserves for transactions purposes as it does now.
- ◆ Approximately 35% of Chinese trade is conducted with East Asian economies. What this means is that the foreign exchange reserves maintained for the settlement of imports from East Asian economies can be reduced if the settlement currency is going to be the Renminbi itself.
- ◆ Chinese exports to East Asia except Japan amount to more than US\$300 billion a year. Similarly, Chinese imports from East Asia except Japan also amount to US\$300 billion a year. If imports can be settled in Renminbi, the requirement of foreign exchange reserves for transaction purposes can be reduced by US\$300 billion.

The Renminbi as a Settlement Currency

◆ Moreover, if other East Asian economies, such as Hong Kong, Indonesia, South Korea, Malaysia and Thailand also use the Renminbi as their settlement currency for trade amongst themselves, it would further reduce the demand for U.S. Dollars for international transactions purposes and hence the proportion of the foreign exchange reserves that the central banks of these economies hold in terms of U.S. Dollar-denominated assets. However, it may also increase demand of these central banks for Renminbi-denominated assets to be held as part of their foreign exchange reserves.

The Internationalisation of the Renminbi

- ◆ The willingness to accept and to hold a non-local currency depends, but not exclusively, on whether the currency is fully convertible. A person (firm) may be quite willing to accept and to hold a non-local currency, fully convertible or not, if he (it) knows that the next person (firm) he (it) comes across is also likely to accept the currency. There can be wide general acceptance of a non-local currency even in the absence of its full convertibility.
- ◆ Even though the Renminbi is not de jure fully convertible, it has gradually become de facto convertible in many economies in East Asia because of its wide general acceptance. For example, the Renminbi is widely accepted and used in Hong Kong, Macau, Laos, Myanmar, and other border areas even though it is not legal tender in these places.

Full Convertibility and the Renminbi as a Reserve Currency

♦ While it is true that the Renminbi is not fully convertible, it may nevertheless be maintained as part of foreign exchange reserves by an economy as long as there is a credible commitment by the People's Bank of China to convert any Renminbi presented by a foreign central bank into U.S. Dollars or Euros or any other so-called "hard" currencies. Foreign central banks can hold the Renminbi for potential transactions purposes with China or other economies willing to accept the Renminbi.

Concluding Remarks

- ◆ The centre of gravity of the World economy is gradually shifting to Asia (East Asia and South Asia) from North America and Europe. The shift is still on-going. However, it will probably take another 15 years before Chinese real GDP can catch up to the level of the United States real GDP. In the meantime, the U.S. economy will still be the largest in the World. And it will probably be another 40 years from now before Chinese per capita GDP reaches the same level as that of the U.S.
- ◆ The international monetary order is in need of restructuring. There are, however, other alternatives than the use of Renminbi as another reserve currency. For example, a multilateral settlement mechanism similar to what the Bank for International Settlements did for the Western European economies in the 1950s may work within East Asia. The use of "Special Drawing Rights (SDRs)" and a return to a quasi-gold standard, perhaps within a voluntary regional group of countries, are other possibilities.

Concluding Remarks

- ◆ Paradoxically, the global financial crisis of 2007-2009 has accelerated the pace of internationalisation of the Renminbi. China will be internationalising the Renminbi gradually and in a planned and orderly manner. It has already made a beginning by allowing the Renminbi to be used on a voluntary basis as an accounting and settlement currency in its international trade with selected countries and regions.
- ◆ In time, perhaps within the next five years, the Renminbi will become effectively fully convertible, in the sense that both inbound and outbound capital controls will be effectively lifted. However, it is possible that short-term capital flows, which are of little economic benefit to the recipient economies, may continue to be under some form of control.

Concluding Remarks

- ◆ If current trends continue, Chinese real GDP will approach the level of U.S. real GDP in approximately 15 years' time--around 2025, at which time Chinese real GDP will exceed US\$20 trillion (in 2010 prices) and Chinese real GDP per capita will exceed US\$ 14,000.
- ◆ It will take another 20-25 years, until around the middle of the 21st Century, before China reaches the same level of real GDP per capita as the United States, at US\$90,000 in 2010 prices (bear in mind that in the meantime, the U.S. economy will also continue to grow, albeit at rates significantly lower than those of the Chinese economy and that the Chinese population will reach a peak around 2035 and then begin to decline slowly).
- By that time, Chinese GDP will be approximately 6 times the U.S. GDP.