Reduction of Global Trade Imbalances: Does China Have to Revalue Its Currency?

China’s growing trade surplus with the USA has triggered a discussion whether the Yuan is fundamentally undervalued in relation to the US Dollar. So far, China has resisted the demand to drastically revalue its currency. This creates tension as the US economy is only slowly recovering and unemployment rates will probably remain high for a while. In return, this increases the risk of protectionist measures by the US government, such as punitive tariffs on Chinese exports, in order to pressure China to revalue the Yuan. This would also pose a serious threat to growth opportunities in Germany.

Since China joined the World Trade Organization (WTO) in 2001, the country has developed a rapidly growing foreign trade surplus. This is not only due to exports to the USA. In fact, the EU and mainly the Central and Eastern European member states have become a key market for China. On the whole, China has strongly diversified its export activities according to customer regions on a global scale. Its export success is mainly based on high competitiveness regarding prices. Over the past years, China has become a workshop of the global economy: An ever growing part of global production of goods of the manufacturing industry is (either completely or in part) produced in the People’s Republic. In case of a revaluation of the Yuan, China’s price competitiveness would decrease.

Since a trade surplus implies corresponding capital movements, China is not only the country with the highest foreign trade surplus—overtaking Germany as export champion in 2009—but has also pushed Japan back to only second biggest capital exporter. A large amount of these funds is managed via sovereign wealth funds that are under direct influence of the government.

Trade surplus with the US increased rapidly

China’s trade surplus with the US has more than doubled since 2002. In the record year 2008, it was at 268 billion USD (see Figures 1 and 2). At the same time, Chinese products have risen to a 20% share out of all US imports of commodities. In this context China was able to build up currency reserves of already 2.5 billion USD, ranking first place once more (see Table 1). A revaluation of the Yuan against the
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The dollar would probably entail considerable losses for China. From the US point of view, this would equal a corresponding debt relief. China holds more than 20% of US government bonds owned by foreigners, which makes it its most important creditor (see Table 2). Since US savings will not be sufficient in the medium term to finance the US budget deficits, the country has to rely on foreign capital (see Figure 3). The threat to drastically limit the purchase of public bonds in case the USA introduces trade protectionist measures has so far established a fragile equilibrium between China and the USA. However, the question is how Chinese export proceeds could be invested in a different manner: The European capital market is not yet equivalent to the US market; especially the European bond markets are still too fragmented.

In order to avoid protectionist measures, China has gradually revalued the Yuan between 2005 and the beginning of the financial crisis in 2008 by altogether 20% against the US Dollar (see Glossary). But when the crisis hit, this process was stopped and the Yuan became again pegged to the US Dollar. This strict peg was only lifted in June 2010. Since then, short term exchange rate movements against the US Dollar are permitted. But they are limited to fluctuations of half a percent in both directions compared to the average of the previous day. This mechanism guarantees the Chinese government enough leeway to prevent unwanted exchange rate fluctuations.
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Danger of unilateral US punitive tariffs on Chinese products

For years the USA has been accusing China of systematically manipulating its exchange rate against the US Dollar too low.¹ This would mean unfair competitive pressure, especially on US manufacturers. Since China does not comply with the system of flexible exchange rates and instead uses its exchange rate policy (as is typical for economies at a similar point of development) to support exports to the USA, a quick exchange rate adjustment seems improbable. This excludes an adjustment mechanism which could be used for reducing trade imbalances.

An alternative could be punitive tariffs in order to prevent the import of commodities which oust domestic producers because of a systematically undervalued currency. The significance of this possibility is proven by debates in the US congress aiming at a commitment of the US government to impose punitive tariffs.

Table 2

<table>
<thead>
<tr>
<th>Leading Foreign Owners of US Public Bonds¹</th>
<th>Billions USD</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>People’s Republic of China</td>
<td>867.7</td>
<td>21.9</td>
</tr>
<tr>
<td>Japan</td>
<td>786.7</td>
<td>19.8</td>
</tr>
<tr>
<td>Great Britain</td>
<td>350</td>
<td>8.8</td>
</tr>
<tr>
<td>Brazil</td>
<td>161.4</td>
<td>4.1</td>
</tr>
<tr>
<td>Hong Kong</td>
<td>145.7</td>
<td>3.7</td>
</tr>
<tr>
<td>Russia</td>
<td>126.8</td>
<td>3.2</td>
</tr>
<tr>
<td>Republic of China (Taiwan)</td>
<td>126.2</td>
<td>3.2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>3963.6</strong></td>
<td><strong>100</strong></td>
</tr>
</tbody>
</table>

¹ May 2010.


China is the most important creditor of the USA and holds more than a fifth of US public debts.

Glossary

**Renminbi or Yuan?**

The name of the Chinese currency has repeatedly been a source of irritation: Renminbi or Yuan—which means what? And which one is correct?

This irritation is caused by the differentiation between the currency as such and the different denominations—a difference not common in Western languages. Renminbi means the official Chinese currency as such, whereas Yuan stands for the denomination. Another difference to most Western currencies is the currency’s further denomination: one Yuan equals 10 Jiao, which in turn equals 100 Fen.

Conclusion: As name for the Chinese currency both Renminbi and Yuan are correct, Yuan being the most commonly used term in the West.

Figure 3

Balance of Payments by Countries

Whereas China has massively increased its balance of payment surplus since 2004, the USA is deeply in the red.

Source: IMF.
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China rejects accusation of currency manipulation

China strongly rejects accusations of being a currency manipulator. However, the fainthearted flexibilization of the Yuan of June 2010 will hardly contribute to reducing the trade surplus with the USA. Admittedly, the Yuan has seen a slight revaluation since then, which has accumulated to 2% in September 2010. But this is mainly the result of China’s fast increasing inflation, which in turn goes back to above-average wage increases in export-oriented coastal regions (see Figure 4). But it is unlikely that this process will continue or even gain momentum, because companies concerned by these increases of wages and salaries are already planning relocation of their production sites, eliminating the wage differential to the booming export regions.

Instead of revaluing the Yuan, China is trying to establish the Yuan as a world reserve currency, or at least as a regional reserve currency. For this purpose, a free trade agreement was negotiated with the ASEAN countries, which has come into force at the beginning of this year. Since then, Taiwan has become another partner in this free trade zone. This way the People’s Republic of China creates even stronger economic ties with Taiwan. Additionally, China is establishing export platforms as special economic zones under Chinese leadership in some ASEAN countries like Cambodia. However, the exchange rates of these countries first need to stabilize against the Yuan in order to pave the way for China’s goal of the Yuan as a regional reserve currency (see Figure 5 and Text box).

Furthermore, China has challenged the leadership of the US Dollar as a global reserve currency at the G20 meeting in London, pleading for special drawing rights as alternative global payment method. This is one of the reasons why the country has agreed to an increase of its deposits by 100 billion USD in the context of the enlargement of the IMF’s funding framework. By this, China has also increased its voting power in the IMF’s executive committee. Now China is the only country apart from the Big 5 (USA, Japan, Germany, France, UK) with its own director. At the same time, China is slowly reducing its long-term investments in US securities,

Since 1998, consumer prices in China have been similarly stable as in the USA.

However, the economic situation of the USA is currently being considered a lot more critical. In view of the mid-term elections in November 2010, the debate will probably heat up, especially since the call for punitive tariffs is not only supported by associations of business enterprises like the Alliance of American Manufacturing, but also by some economists. The IMF also assumes an undervaluation of the Yuan against other currencies.

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Figure 4

Consumer Prices in China and the USA

<table>
<thead>
<tr>
<th>Year</th>
<th>China</th>
<th>USA</th>
</tr>
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<tbody>
<tr>
<td>1991</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1994</td>
<td></td>
<td></td>
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<tr>
<td>1997</td>
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<td>2009</td>
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DIW Berlin 2010


3 IMF: Chinese Currency Undervalued. Depending on the method used, the Yuan’s undervaluation is estimated at 20-45%.


5 ASEAN member states include Thailand, Indonesia, Malaysia, the Philippines, Singapore, Brunei, Myanmar, Cambodia, Laos, and Vietnam.

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When assessing the exchange rate development of the Chinese Yuan against the US Dollar, the chosen time period for analysis is crucial. Because China has been fixing its exchange rate traditionally arbitrarily since 1950 (meaning uncontrolled by market forces), considerable valuation errors against other currencies were principally possible. Until 1995, China had a divided currency system. The domestic currency, the Yuan, could not be used by foreigners. Instead, they had to buy so-called Foreign Exchange Certificates (FEC) from the Bank of China with a markup of 20% against the Yuan. Since these FECs were also used for purchasing imported goods or other scarce commodities, a black market emerged that upped the FEC rate against the Yuan because of high demand.

This system was abolished in 1995, making the Yuan the only means of payment. In order to accommodate the higher black market rate of the FECs against the Yuan at this time, the Yuan was devalued by more or less 60% beforehand. Already in 1990, the value of the Yuan against the Dollar had fallen by more than 20%. This way the Yuan started with a very low exchange rate against the US Dollar in 1995. Since only relatively small exchange rate adjustments of the Yuan against the Dollar were made until the first floating in June 2005, only the differences in their inflation rates had significant influence on the real exchange rate. However, China had very low inflation rates in the second half of the 90s and until the beginning of 2002; in some cases the prices even declined. Only in the years 2004, 2007 and 2008 was the Chinese inflation rate higher than the US rate. This will probably also be the case for this year. This way the difference between the two inflation rates has been an ongoing advantage for China's competitiveness in prices. The real exchange rate against the US Dollar declined compared to the stable nominal exchange rate. These price effects were balanced by the nominal Yuan revaluation between 2005 and 2008. Thus, a decisive factor for analysis is the assessment of the situation at the transition to a single Yuan exchange rate at the beginning of the 90s.

The strong increase in Chinese consumer prices in the first half of the 90s can probably be traced back to a successive adjustment of government-controlled prices to market price levels in the context of China’s market orientation. This increase should therefore not be misinterpreted as rampant inflation. Especially the decrease of subsidies for food and accommodation quite likely contributed a lot to the increase of prices. We have seen similar price adjustments after reunification in East Germany.

The future global currency system—
to the disadvantage of the Eurozone?

At the moment a further increase of Chinese currency reserves can be observed. Another aspect is the fact that the USA offers more than enough safe and liquid assets in form of government bonds, giving the impression that financing its high current account deficit still seems possible.

True, the Euro could possibly challenge the US Dollar as dominant reserve currency. After all, the European currency area is in economic terms of similar size as the United States. However, the less...
Another weak point is the lack of a common European position (with the exception of European monetary policy) which would be useful in a re-structuring of the global financial system. In most cases countries speak with their own voice instead of finding a common European one. If we take the IMF quotas as a yardstick, i.e. the countries’ payment contributions to the International Monetary Fund which also define the countries’ voting power, Europe’s influence could be much bigger even after the planned reform.

On the other hand, the Eurozone with the Euro as dominant global reserve currency instead of the US Dollar would also be faced with the Triffin dilemma, resulting in a conflict of goals in monetary, currency and trade policies. In order to ensure sufficient liquidity in the global economy, the money supply of the Eurozone would have to expand according to the liquidity needs of the global economy. But since the Eurozone will probably continue to expand more slowly than the total global economy, this would only be possible through a cumulating trade deficit with the rest of the world. This, however, would in the long run undermine credibility of the Euro as stable means of payment, as is the case with the US Dollar now. Consequently, a long term solution would be to create a currency basket of global reserve currencies, whose economic growth in total corresponds to that of the global economy and whose shares are adjusted according to the share of total growth of the reserve currency countries—a method already used for special drawing rights. The propositions of the Chinese government also go into this direction. It remains to be seen whether the USA will accept such a solution. The upcoming G20 meeting in South Korea in November 2010 will hopefully bring more clarity.

Conclusion

So far, China’s reaction to criticism of its exchange rate policy, especially coming from the USA, has shown little effect. The essential question is whether China is going to give up on its export-oriented growth policy. If we take the revaluation of the Yuan against the US Dollar between 2005 and 2008 as basis, we realize that the slow exchange rate adjustments have not visibly slowed down the US trade deficit with China. Instead, the adjustment was overcompensated by an increased productivity of Chinese exporting industries and wage restraint. Therefore the exchange rate mechanism alone is
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not enough to compensate trade imbalances in a sustainable way.

For the absorption of the Chinese trade surplus Europe is becoming more and more important.\textsuperscript{10} This is why speedy agreements are necessary in order to prevent a similar problematic development like between China and the USA. Especially Germany, which is currently profiting from its export success to China, should quickly recognize that because of even faster growing imports there is the risk of falling into a debt trap in the balance of payments concerning the trade with China. Already today China is Germany’s most important supplier. This increasingly includes also high quality products.\textsuperscript{11}

Market participants have regularly underestimated the necessary scope for exchange rate corrections.\textsuperscript{12} Gradual adjustments, which enable a soft landing, are usually made too late and/or too modestly, so that shock-like corrections dominate the picture. But this kind of corrections is hardly predictable regarding scope and time. In many cases market participants abruptly realize the exchange rate risk only afterwards.

A significant revaluation of the Yuan is probably going to play a major role at the upcoming G20 summit in November in South Korea. Only with such a revaluation a threatening trade war between China and the USA can be prevented. Such a war could also negatively influence the general economic development of the export nation Germany.

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