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Target Losses in Case of a Euro Break-up

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Target Losses in Case of a Euro Breakup

Hans-Werner Sinn, 22 October 2012

When exchange rate adjustments are impossible, imbalances of cross-border payment flows must be accommodated officially. This baseline fact about monetary union has sparked extensive discussion on what the resulting asset positions mean (Sinn 2011 a,b, Tornell and Westermann 2012, Whelan 2012).

On one side, Sinn and Wollmershäuser (2012) argue that Finland, the Netherlands, Luxembourg, and Germany face the risk of losing the Target claims of their national central banks should the euro break up. On the other, De Grauwe and Ji (2012) deny that such a risk exists. They base this on the grounds that:

- The risk stems only from these countries' self-chosen net foreign asset position;
- Fiat money has a value independent of the corresponding national central bank's assets; and
- Foreign speculators could be excluded from a currency conversion if necessary.

Given that the Eurozone's gross Target claims or liabilities today amount to about €1 trillion and constitute the largest single item in the balance sheets of most central banks of Eurozone members, this would be good news for the four countries mentioned. If De Grauwe and Ji are right, however, one wonders why Moody's recently announced that it is considering a downgrade of the credit ratings of Germany, the Netherlands, and Luxembourg in view of the riskiness, among other factors, of their huge Target claims. Can it be that the analysts of Moody's have overlooked something?

I will show that they didn't and that, in fact, all three points of De Grauwe and Ji are erroneous or do not apply to the assessment of Target losses in the case of Eurozone breakup. To this end, let me consider the issue in more detail. I will start by reviewing the nature of the Target imbalances according to Sinn and Wollmershäuser (2012) and then proceed, in turn, to each of the De Grauwe and Ji (2012) counterarguments. Some of my comments also apply to a new paper by Buiter and Rahbari (2012b) that came out after this note was written. I briefly refer to what I perceive as their error in the section on fiat money.

How the Target balances came about

Sinn and Wollmershäuser (2012) pointed out that by dramatically reducing the collateral requirements for the refinancing credits of Eurozone central banks, the ECB undercut market rates in the southern Eurozone countries and Ireland. This enabled a huge asymmetric expansion of refinancing credit and money creation, compensating for stalling capital imports and outright capital flight. The monetary expansion in the southern countries in turn enabled

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1 This paper was shown to Paul De Grauwe before publication. I am grateful for his reaction.

2 “Moody's Changes the Outlook to Negative on Germany, Netherlands, Luxembourg and Affirms Finland’s Aaa Stable Rating”
a net outflow of central bank money to other Eurozone countries by way of international payment orders for the purpose of buying goods and assets and redeeming foreign debt. Sinn and Wollmershäuser (2012) demonstrated that this outflow is a classical balance-of-payments imbalance, showed that its accumulated value is measured by the Target balances, and constructed the first comprehensive Target panel dataset out of the sometimes confusing and non-homogeneous balance sheet information provided by Eurozone member central banks, and the IMF. They argued that the ECB compensated for, and may even have caused, capital flight inasmuch as it replaced expensive foreign interbank credit with cheaper credit from the local electronic printing presses, and helped maintain and prolong structural current-account deficits that otherwise would have been difficult to finance.

In the surplus countries, commercial banks placed the funds they withdrew from the deficit countries with their own central banks, which implied a sterilisation of the inflowing liquidity. Because of the sterilisation, the policy has (thus far) not been inflationary, but for that same reason it is a pure fiscal credit transfer that resembles the official intergovernmental credit transfers.

Sinn and Wollmershäuser (2012) argued that this policy was defensible at the time of the Lehman crisis, but has meanwhile begun to undermine the allocative function of the capital market by offering credit at conditions that do not take idiosyncratic country risks into account and undercut the market rates. They also maintain that the Target debts impose risks on the rest of the Eurozone countries in proportion to their share in the ECB capital, should the deficit countries default and leave the Eurozone. In the case of a breakup of the Eurozone, the surplus countries' Target claims themselves would be at risk.

Exogenous current-account balances?

De Grauwe and Ji (2012) concentrate on the risk in case of a Eurozone breakup. They argue that this risk stems from the size of the northern countries' portfolio of net foreign assets built up from previous current-account surpluses, rather than from the composition of this portfolio. As the current-account surpluses are "entirely [their] ... own decision", independent of the ECB's refinancing policy and the resulting Target balances, there is no reason to worry about this risk.

This view is erroneous, since the current-account deficits, which resulted from years of easy access to international capital markets that the euro brought to the countries of southern Europe, could hardly have come down as slowly as they did during the crisis if the ECB had not replaced private capital inflows with cheap refinancing credit.

To be specific, a more restrictive ECB refinancing policy, in the sense of continuing to demand first-rate collateral from southern banks rather than continuously reducing the

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Sinn and Wollmershäuser collected the first panel data set showing the Target balances of the Eurozone countries.
collateral requirements to junk levels, would have resulted in a lower flow of refinancing credit to the banks of the deficit countries, lower Target liabilities, higher local interest rates in these countries, less capital flight or even continued private capital imports, less investment and government consumption, and hence lower current-account imbalances among the countries of the Eurozone. Thus, whatever the value judgement on the ECB's policy is, it cannot be true that a country's current-account surplus and its net foreign asset position merely reflect that country's own decisions, as De Grauwe and Ji (2012) maintain.

Note, moreover, that saying that the current-account deficits were sustained with the extra refinancing credit behind the Target balances does not equate to claiming that current-account deficits and Target deficits were positively correlated, as some economists criticising Wollmershäuser and Sinn (2012) have insinuated. On the contrary, to the extent that the ECB helped slow down the adjustment of pre-crisis current-account deficits despite the reversal of private capital flows, the correlation should have been small if not zero, while the correlation between private capital imports and Target deficits should have been (and was) strongly negative, as Wollmershäuser and Sinn (2012) demonstrated with their country analyses. However, it does mean that the ECB's extra refinancing credit, which resulted in Target debt, helped provide the funds needed to finance the current-account deficits. Note that, by the definition of a country's budget constraint, the sum of Target balances, (private and intergovernmental) international capital flows, and current-account imbalances is zero. Even if De Grauwe and Ji's (2012) claim was right, that only the net foreign asset positions, and hence the accumulated current-account imbalances, matter for the breakup risk, the Target balances would still indicate such a risk inasmuch as without the public capital flow from north to south that these balances measure, the overall capital flow in this direction would have been smaller.

**Portfolio composition matters**

However, this is not the main problem with De Grauwe and Ji's (2012) analysis. The view that the portfolio composition of a country's net foreign asset position is largely irrelevant for an assessment of the breakup risk is itself erroneous. If this view were correct, the risk of a balance sheet could be measured by the difference between its assets and liabilities, while the riskiness of the assets themselves would not matter.

What the authors overlook is the difference in the risk that a Eurozone breakup imposes on different kinds of foreign assets and different kinds of domestic owners of such assets. Consider a surplus country like the Netherlands. Dutch asset owners hold foreign ownership titles like bank debentures, government bonds, company shares, or titles to foreign real-estate property. If the euro breaks up, these titles continue to be legal titles protected by law. Granted, there is an exchange rate risk, but in principle the legality of the titles is not questioned. By contrast, the Dutch Target claims are claims on the ECB system held by a

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4 The president of the Bundesbank, Jens Weidmann, criticized the low collateral quality for the refinancing credits and the resulting Target credit in a letter to Mario Draghi. See Ruhkamp (2012).
government institution, the Dutch central bank and hence the Netherlands, whose value hinges on the ECB's continued existence.

If the Eurozone breaks up and the Target debtors go bankrupt, there is no clear legal basis for the Target claims, and the Netherlands would hold a claim against a system that no longer exists. Neither the ECB bylaws nor the Maastricht Treaty contain any rules for how this case would have to be handled. Should the euro break up, there will probably be a follow-up institution that inherits the ECB's equity capital, currently about €31 billion. The Netherlands will then have to compete for this equity with Germany, Finland and Luxembourg, who together with the Netherlands hold Target claims currently amounting to about €1,000 billion. In all likelihood, the lion's share of the Target claims will be lost, while marketable ownership titles would remain legally valid. All four countries will then plead with their former partners in the Eurozone to share in the losses, but these will likely point out that quite a number of official voices from the surplus countries had called the Target balances irrelevant, merely statistical items with no economic significance – and there will be enough economists defending this view, perhaps even alluding to the fiat money interpretation that will be discussed below.

Thus it is not irrelevant for the Dutch risk that, by way of the ECB's generous refinancing policies that undercut market conditions, marketable claims have been converted into mere Target claims held by the Dutch central bank. Nothing could be more erroneous than such a view.

This is particularly true since a considerable part of the marketable assets constituting the Dutch net foreign asset position before the emergence of Target balances were claims against countries whose creditworthiness was impeccable. It is well known, for example, that Dutch and German banks actively lent their funds to French banks, which then distributed them to southern European banks. Although France has a negative net foreign asset position, the Bank for International Settlements' statistics show that its banks had invested much more in the crisis-affected countries than Germany. During the crisis, the French banks partially retreated from the southern countries with whose printing presses they could not compete, the Dutch and German banks then partially retreating from France, since the French banking system no longer needed their funds. The Dutch and German banks placed their funds instead with their respective central banks or, equivalently, drew less refinancing credit from them. The double retreat of capital (from the south to France, and from France to the Netherlands and Germany) kept the French Target balances largely unchanged, but it generated Dutch and German Target claims and southern Target liabilities. In the end, in the Netherlands and Germany, market-grade private claims on the French banking system were replaced by additional private claims on the Dutch central bank and the Bundesbank, or by reduced liabilities from refinancing credit, with these national central banks themselves acquiring corresponding claims on the ECB system. This was certainly not a portfolio reallocation that kept the risk of a euro breakup unchanged for these countries as a whole, let alone for these countries' taxpayers.
Target balances are not gold, not even gold-backed securities

The risk imposed by the Target balances can also be highlighted by comparing the Eurozone with the Bretton Woods system of fixed exchange rates that lasted until 1973. In that system, too, there were significant balance-of-payments imbalances that involved substantial cross-country currency flows, basically the same as the flow of Target claims today. However, the imbalances had to be settled with dollars or gold.

The balance-of-payments surpluses that countries like France or Germany held with the US meant that dollars or dollar-denominated Treasury bills were accumulated by the Banque de France and the Bundesbank. As is well known, the Bretton Woods system came to an end when Charles de Gaulle asked the US in 1968 to convert the dollars accumulated by the Banque de France into gold, because the US did not have enough gold to convert the outstanding dollars of the whole world in this way.\(^5\)

However, there were not only balance-of-payments imbalances with regard to the US, but also among the European members of the Bretton Woods system. These imbalances had to be settled with dollars or gold, but given that the market price of gold was below the official dollar-gold parity, in practice the settlement was done largely with gold.\(^6\)

The Bundesbank at the time accumulated 3,600 tonnes of gold, which, except for the 6% that was transferred to the ECB, is still in its possession and amounts to practically all the gold it has. Gold nowadays has a value about 19 times that of when the Bretton Woods system came to an end in 1973.

In the Eurozone, the Bundesbank did not accumulate gold as a result of its balance-of-payments surplus, but mere Target claims, claims that are backed by Target liabilities and the corresponding extra refinancing credits given to the commercial banks of the crisis countries, which earn a rate of interest of currently 0.75%, far below the inflation rate. The central banks of Luxembourg, the Netherlands, and Finland are in a similar position.

For payments within the US, the situation was similar to the Bretton Woods system or to true gold-standard systems until 1913. Balance-of-payments imbalances between commercial banks used to be settled with physical gold transfers, which, as we know from old Western movies, were not without risk. To facilitate the settlement, the US in 1914 introduced the Federal Reserve system, consisting of 12 districts with their respective 'District Feds'. The advantage of that system was that the settlement could now be done by simply transferring ownership of gold-backed securities in a federal clearing portfolio, without the gold having to be physically transported. Later, in the 1930s, the gold-backed securities were replaced with Federal Government bonds, but in principle the system still operates today. Since the transferred ownership shares bear an interest rate of 6% that is not socialised among the district Feds, there is quite a penalty for District Feds that create and lend out more than their

fair share of the monetary base. This is the reason why a Target-like problem has never arisen in the US to this day.\textsuperscript{7}

In the US, the settlement is performed every April according to a formula that typically eliminates some, but not all imbalances. During the crisis, the gross Interdistrict Settlement Account imbalances, the analogue of Europe’s Target imbalances, increased to a maximum of 2.9% of US GDP, but the settlement, as well as local reductions in money supply to raise interest rates that attract capital from other districts and thus help to avoid a settlement, have meanwhile reduced the gross claims to 0.6% of US GDP, or $96 billion (10 October 2012). By contrast, based on the Target figures for September 2012, gross Target claims amounted to 11.4% of Eurozone GDP, or €1,020 billion.\textsuperscript{8} Had the Eurozone been set up like the Bretton Woods system or the US Federal Reserve system, these Target claims would have to be converted into gold-backed securities or safe marketable securities bearing a 6% rate of interest transferred from the debtor central banks to the surplus central banks. Taking the most recent figures available at the time of writing, the Bundesbank would then have received claims on assets (including 6% interest) worth €695 billion (September), the Nederlandsche Bank assets worth €125 billion (August), the Banque Centrale du Luxembourg assets worth €128 billion (July), the Suomen Pankki assets worth €60 billion (July), the Banque de France €12 billion (July), and the Eesti Pank €0.1 billion (July).

**Fiat money does not protect against Target losses**

To further demonstrate the irrelevance of Target balances, De Grauwe and Ji (2012) point to the nature of fiat money. They rightly argue that fiat money has a value in and of itself for the private agents using it and that this value would not disappear if the euro ceases to exist and is replaced by a national currency.

Indeed, as fiat money is voluntarily held by private agents even though it does not generate interest, it must be delivering liquidity services that are equivalent to the interest foregone by not converting it into interest-bearing assets, and the present value of these liquidity services is identical to the accounting value of the money itself. Thus, fiat money is real wealth, and the economic value of the liability side of a national central bank’s balance sheet (for the private economy!) is independent of the value of the assets it holds, as the authors maintain. The central bank could therefore destroy its assets without reducing the value of the monetary base, as the authors also maintain.

While this is all true, it certainly does not mean that the central bank in question and the sovereign that owns it would not incur wealth losses if it destroyed its assets, as De Grauwe and Ji (2012) believe.\textsuperscript{9} After all, it is the assets bought with self-printed money and the interest flow they generate that create the seignorage wealth of a central bank. In the Eurozone, the most important assets member central banks acquire are titles derived from

\textsuperscript{7} See Sinn (2012a) and Sinn and Wollmershäuser (2012, Fig. 9).
\textsuperscript{8} See Sinn (2012b).
\textsuperscript{9} To cite the authors: “In the fiat money system we live in, the Bundesbank could destroy all its assets without any effect on the value of the money base — as long as people continued to trust the Bundesbank to maintain price stability.”
providing refinancing credit to commercial banks, i.e. from lending them the newly printed money, and the value of these titles is equal to the present value of the interest flow from the commercial banks to the central banks that is generated by this credit. Voiding the central banks' claims on the commercial banks would eliminate this interest flow and would therefore make the central banks poorer.

Even though central banks have to book their outstanding monetary base as a liability, this base is equity from a truly economic perspective if the seignorage generated by the assets acquired with the newly created money is taken into account. And one can even reason that a central bank's right to increase its monetary base in the future and buy even more assets with newly printed money is unreported equity that increases the central bank's loss-bearing capacity, a view that follows from an early contribution by Wenger (1997) and was recently emphasised by Buiter and Rahbari (2012a,b). However, all of this does not imply that destroying the assets would be harmless, since parts of the thus-defined economic equity itself would also be wiped out. It is surprising that this simple, but crucial point seems to have been overlooked by so many authors.

The central bank's assets stand for a flow of interest returns from commercial banks to the central bank, whose present value is the same as the value of the assets. Since the central bank's seignorage profit is normally handed over to the sovereign, it is this sovereign and its domestic taxpayers who would suffer the loss if the Target claims, today the most important assets of four central banks in the Eurozone, were destroyed.

In a normal situation without Target imbalances, as prevailed in the Eurozone until 2007, the assets of a central bank consist predominantly of interest-bearing claims resulting from refinancing credit given to commercial banks within the country, or securities bought from them. The flow of seignorage profit thus comes largely from the domestic commercial banks and their credit customers, goes to the socialisation mechanism of the ECB, and is then distributed to the sovereigns, and hence taxpayers, of Eurozone countries in proportion to their respective capital shares. In a symmetric equilibrium, every sovereign receives just as much seignorage profit as its central bank collects from the domestic commercial banks.

When the Target balances began to rise in the Eurozone after the outbreak of the financial crisis in the summer of 2007, the electronic printing press was 'lent' by the northern to the southern Eurozone central banks, and so the Eurozone's claims from issuing refinancing credit and the corresponding interest revenue came increasingly from southern rather than northern commercial banks, the reallocation of claims being approximately measured by the Target balances (see Sinn and Wollmershäuser 2012). Because of the socialisation of seignorage in the ECB system, this is irrelevant for each central bank's distribution of seignorage to the respective sovereign as long as the euro exists. (There are severe disadvantages, though, for the capital-exporting countries insofar as the competition of the printing press keeps the market interest rates below the levels that otherwise would have prevailed.)

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10 For a discussion of this in the context of the euro introduction see Sinn and Feist (1999).
11 See also Homburg (2012).
However, if the euro breaks up and if the Target claims are not honoured as legally valid titles, or the Target debtors are unable to repay while the Target-neutral countries object to share in the losses, the seignorage stemming from the commercial banks of the Target debtor countries would no longer flow into a common pool and the Target surplus countries would lose their Target claims, with the present value of the lost seignorage being exactly equal to these claims (whatever the time path of the rate of interest). This is entirely independent of the fiat money aspect on which De Grauwe and Ji (2012) focus, and independent of the size of the ECB's or the Bundesbank's loss-bearing capacity emphasised by Buiter and Rahbari.

It also does not matter to whom the commercial banks lent the money they borrowed from their central banks, be it private clients or local governments, and whether or not the commercial banks were able to provide good collateral to their national central banks. The commercial banks, and not their clients, are liable to pay the interest to their central banks, and if their central banks do not honour their Target liabilities after a breakup of the Eurozone, it is the central banks of the Target-surplus countries that will suffer the loss. Given that the latter would lose their legal relationship with the commercial banks of the debtor countries, they have to satisfy themselves with the Target claims and incur a wealth loss equal to these claims, if the debtor countries’ central banks do not honour these claims after a Eurozone breakup. This is a real loss of interest returns from foreign commercial banks, regardless of how large the loss-bearing capacity of the Target-surplus countries is.

**Would restricting money conversion to residents avoid Target losses in case of a breakup?**

De Grauwe and Ji (2012) conclude their paper by arguing that the only risk for the 'virtuous German taxpayer' (and presumably for the equally virtuous Dutch and Finnish taxpayers) is a speculative flight into German deposits from countries whose currencies would most likely devalue after a breakup. If the Bundesbank converts all domestic accounts into the new national currency, there would be too many deutschmarks to start with and hence one must reckon with inflation-induced wealth losses for the domestic economy. However, the Bundesbank could easily avoid this wealth loss by limiting conversion into the new national currency to residents.

This argument is true, but it applies only to last-minute capital flight. Since the speculative flight into German deposits generates new Target claims of the Bundesbank on the ECB system that would not be recognised after a breakup of that system, the Bundesbank would indeed incur additional losses by carrying out the payment orders, filling German deposits on behalf of foreigners. There would be no difference between this case and the earlier capital flight already reflected in the Target balances.

However, the remedy the authors suggest, namely excluding non-residents from converting their German euro accounts into deutschmark accounts, only works for Target imbalances built up at the very last minute by transferring the money to German accounts. It would not
help with the prior imbalances, because these did not result from building up deposits in
German banks.

For one thing, deposits were at best transitory. Practically all the money that foreigners
transferred to Germany and that led to Target imbalances has quickly been converted into
real assets, such as private and government bonds, or ownership titles to firms or real estate.
It is impossible and illegal to disentangle the ownership claims generated in this way at the
time of a currency breakup.

For another, and more importantly, the capital flight reflected by the surge of Target
imbalances in Ireland, Italy, and Spain was not predominantly a capital flight of residents
from these countries, but a retreat of the banks of the surplus countries from the credit
markets of the deficit countries, a flight from a stormy sea back to the home harbour. The
banks of Luxembourg, the Netherlands, Finland, and Germany not only stopped lending to
finance other countries’ current-account deficits, but also withdrew the outstanding funds by
refusing to renew credit contracts at maturity. The banks of the deficit countries redeemed
their debt in net terms also because they found the credit from the domestic printing press
cheaper than the interbank credit, given that the ECB did not demand a risk premium. The
banks of the surplus countries invested the funds instead with their central banks, which
received the Target claims. It is also impossible to disentangle these operations if the euro
breaks up. Thus, from the perspective of the deficit countries, the previous benefits from the
Target imbalances in terms of a real resource flow would remain, but the corresponding debt
will likely disappear.

**Conclusion**

Europe has suffered from a severe balance-of-payment crisis, as capital markets were no
longer willing to finance current-account deficits and outright capital flight occurred, largely
from southern to northern countries, prompting the ECB to step in with the printing press. By
successively reducing the quality of the collateral that commercial banks had to pledge to
their respective national central banks, the ECB dramatically expanded the monetary base
created in the southern countries of the Eurozone by way of providing refinancing credit. This
additional money replaced the money flowing out by way of payment orders to other
countries for the purpose of buying goods and assets and for the redemption of foreign debt.
Economists call this outflow a balance-of-payments deficit. The accumulated deficit is
reported in the central bank balance sheets as Target debt, since it means that the central
banks carrying out the payment order had to credit the payments to the private firms and
banks receiving the payments.

Under the Bretton Woods system, the balance-of-payments deficits between the European
countries were largely settled with gold transfers between the central banks (since the
market price of gold was below the dollar-gold parity). In the US Federal Reserve System,
they are settled by transferring ownership shares of safe marketable assets in a federal
clearing portfolio, the transferred capital bearing a rate of interest of 6%. In the Eurozone,
they are simply booked as Target imbalances in the balance sheets of the central banks, annually augmented by the main refinancing rate (currently 0.75%).

With its policy of offering generous refinancing conditions that undercut the capital market, the ECB did not cause, but sustained and slowed down the adjustment of the current-account imbalances stemming from the time when the euro triggered excessive capital flows to some of the periphery countries (implying a close-to-zero correlation between current accounts and Target balances). Without this policy, whether right or wrong, the deficits would have been difficult to finance, local interest rates would have been higher, and the imbalances would have been smaller.

The banks of the northern countries used the excess liquidity coming in through payment orders from the south to redeem their stocks of ECB refinancing credit and to lend money to their central banks. Thus, the ECB's policy has effectively converted northern savings from private marketable assets issued by other countries into claims on, or reduced debt with, the respective national central banks, which themselves hold corresponding Target claims on the ECB system. Often the conversion meant that Dutch and German claims against French banks, which retreated from their role as credit intermediaries between northern and southern Europe, were converted into Target claims on the ECB system.

It is a matter of debate whether the ECB has protected the Eurozone from an irrational capital market, or distorted the allocation of capital in the Eurozone and deprived the savers of the northern countries of their interest income by undercutting market conditions. However, it definitely has tolerated, if not created, huge Target imbalances that impose a particular risk on the northern countries should the euro break up. Thus, Moody's judgement about the risk that the Target balances impose on the Netherlands, Luxembourg and Germany is justified.

The Target claims represent a euro breakup risk for the creditor countries for the following reasons:

- Unlike the marketable assets behind a country's net foreign asset position, the Target claims would lose their legal base, because they are claims against a system that would no longer exist and because there are no legal rules and specifications in the ECB system to handle such a case. The equity capital of the ECB itself would only be able to cover a tiny fraction of its Target liabilities.

- Although a country's monetary base would retain its value after a breakup of the euro and a conversion to national currency, it would not be irrelevant if a country's Target claims are destroyed, since they represent the present value of a flow of seignorage stemming from other countries' commercial banks that compensates for prior outflows of goods, assets, and debt certificates to these countries. An interruption of the flow of seignorage from foreign commercial banks would imply real wealth losses for the surplus country's taxpayers and/or savers, the present value of which equals the Target balances. This is entirely independent of the size of their loss-bearing capacity, which is irrelevant for the question in hand.
If destroying the Target claims were irrelevant, then destroying the Bundesbank's stock of gold reserves would also be irrelevant, because this stock was accumulated from Target-like imbalances under the Bretton-Woods system.

Excluding non-residents from a conversion of deposits into the new national currency is useful to counter a last minute surge in Target claims before a breakup, but it is no solution for the previously existing Target claims, given that the latter reflect prior purchases of goods and assets abroad as well as a repayment of foreign debt. These transactions have left no traces in today's deposits. From a practical and legal perspective, it is impossible to identify the historical beneficiaries of the Target imbalances.

The risks described above, as well as the implications of a reallocation of savings among alternative uses within the Eurozone that results from the ECB's policies, show that there is every reason to be concerned about the Target imbalances. The sort of asymmetric monetary expansion they represent has no counterpart in the US system. If the euro is to survive politically, a settlement mechanism must be introduced in the Eurozone.

To be sure, the potential Target losses are a strong, though certainly not the only, reason for why the northern Eurozone countries should fear a breakup of the euro. However, Europe cannot be built on the fear of a breakup, but instead on the prospects for a mutually beneficial cooperation. The Eurozone must find its way back to a system of fair, voluntary exchange, and to budget constraints that reflect the true scarcity of resources. Copying the monetary rules of the US could be one way to achieve this goal.

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