The Economic Rationale of an EMU Fiscal Capacity

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Disclaimer: The opinions expressed in this paper are the author's alone and do not reflect those of the European Commission

Abstract

This paper explores the economic rationale of an EMU fiscal capacity. It explains that the EMU's architecture suffers from two structural weaknesses: a tendency to develop imbalances and an inherent deflationary bias. The analysis shows that the external imbalances developed during the first decade of the EMU were driven by the large demand shock brought forward by financial integration, rather than by differences in relative competitiveness. Results suggest that when capital flows stopped, the adjustment was significantly driven by an important fall in aggregate demand in deficit countries, with large output and employment gaps. The main leverage of the efforts to regain relative competitiveness was massive labour shedding. In the absence of a common instrument for demand management, the natural tendency towards an asymmetric path of adjustment, between deficit and surplus countries, determines an inevitable deflationary bias in the whole area. A common fiscal capacity should have been designed and linked with the relative (intra-EMU) external positions of the participating countries. This would have reduced external imbalances, periodically correcting them without a drag on aggregate demand; it would have also reduced the need for the system to exclusively rely on financial markets, thus reducing systemic risks; and it would have also provided an instrument for stabilization against common shocks. Its absence has undermined the stability of the monetary union.

Keywords: EMU; Fiscal Union; Capital Flows; Balance of payment; Employment.

JEL codes: E42; E63; F32; F33; F34; F42; F55

1 The opinions expressed in this paper are the author's alone and do not reflect those of the European Commission. The author is grateful to Nicola Acocella, Mirco Tomasi, and Lukas Vesely for their helpful comments; however any remaining error is entirely the author’s responsibility.
1. The "twin divergences"

Seven years after the outbreak of the financial crisis the Euro Area (EA) has not yet recovered its pre-crisis level of real GDP, unlikely most other advanced economies in the world. The Great Recession has hit all major economies, but its effects on the EA have been comparably stronger and more prolonged. The establishment of the EMU was a peculiar case of an unprecedented divorce between the main monetary and fiscal authorities (Goodhart, 1998). Its incompleteness was fatally exposed once the financial crisis hit and it has often been pointed out as key explanation for the long recession (De Grauwe, 2013; Obstfeld, 2013, O'Rourke and Taylor, 2013; Spolaore, 2013; Acocella, 2014a; Pasimeni, 2014).

Since its creation to the beginning of the financial crisis the EMU achieved moderate growth and convergence; from the financial crisis onwards, it has rather had stagnating growth and increasing divergences. Contrary to the common narrative, it can be argued that the financial crisis did not represent a proper asymmetric shock for the EMU. The crisis provoked an immediate consequence a fall in output which was pretty similar across the whole area. All countries fell into recession in the same year (2009) and growth rates in each country in the years before and after 2009 were quite similar. The Great Recession, in the end, was not a typical asymmetric shock. Notwithstanding we observe increasing divergences among EMU countries and this suggests that a source of asymmetries does exist.

Since the beginning of the EMU, and until the outbreak of the crisis, the external positions of countries in the EA were diverging considerably. Important deficits were gradually accumulated in part of the union, with corresponding surpluses in the rest. The Euro Area as a whole had a rather balanced external position The imbalances accumulated confirmed the hypothesis that under a fixed exchange rate regime among economies with different business cycles, and without a full coordination of economic policies, even the minimum structural divergences in business cycles are likely to amplify divergences in the balance of payments (Friedman, 1953; Kaldor, 1971) and these differences are likely to persist (Fleming, 1971; Berger and Nitsch, 2010).

The external disequilibria of the current accounts reflected corresponding internal disequilibria between savings and investments (Eichengreen, 2010). Surplus countries were systematically generating an excess of savings, with a level of investment around 20% of GDP and a level of savings around 25% of GDP. The opposite happened in deficit countries, where these figures were inverted, showing a symmetric "excess of investments". At the same time, however, the participating countries were converging in a number of other aspects. Some had argued that growing external imbalances, within the Euro Area, were a healthy signal of an efficient allocation of capital across the area (Blanchard and Giavazzi, 2002). Countries with lower income per capita were catching up, and unemployment rates were converging.

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2 Average growth rates in the EA were 2.3% per year from 1999 to 2007, compared to 2.9 for the US, 3.0 for other advanced economies, 6.2 for emerging countries and 4.4 for the world as a whole. They have been slightly negative since 2008 (-0.1), while for the rest of the world they have been positive (1.1 for the US; 5.1 for other advanced economies; and 3.3 for the world as a whole).
A key stylized fact of the EMU is the symmetric relation between external imbalances and convergence in employment outcomes: the growing divergences in the current account balances within the EMU were mirrored by decreasing divergences in the unemployment rates, as the following figure shows. Once the process reversed and the external imbalances started to narrow, unemployment rates diverged again.

**Figure 1: Divergences ($\sigma$) in current account and unemployment rates in the EMU, 1998-2014**

Source: own calculations on IMF WEO database, April 2015.

During the first period, up to the crisis, the EMU relied on what the literature had called the "private insurance channel": growing financial integration was channelling the excess of savings from surplus to deficit countries through financial markets. Some had suggested that a monetary union among countries keeping their fiscal autonomy could compensate the lack of a common fiscal capacity through such a transfer mechanism brought forward by financial integration (Mundell, 1973; Eichengreen, 1992). The absence of exchange rate risks promoted financial integration among EA economies, thereby increasing capital flows. With the establishment of the monetary union, an important signalling function of the exchange rate was lost (Michie, 2000; Tornell and Velasco, 2000), without being replaced by any other common institution. As Acocella (2014b) explains, in this case markets have difficulties in delivering the right signals of imbalances, underreacting or overreacting, and cannot properly correct them. This can even cause further imbalances, as free mobility of capital can create bubbles which mask them (p.17).

Capital flows accounted for around 12% of Euro Area GDP in 2001, and they skyrocketed up to 42% in just six years (Lane, 2013). This acted as an internal system of transfers, operating through the private sector by financial markets (Hale and Obstfeld, 2014), instead than through the long-advocated common fiscal capacity (Pasimeni, 2014). The functioning of the EMU became itself a kind of large asymmetric shock, even if a relatively gradual one (Krugman, 2012). This triggered an important demand shock in the area.

The relation between current account imbalances and financial integration is one of the major features of the pre-crisis global environment (Lane and Milesi-Ferretti, 2012), however, its speed
and relevance increases in a currency union, where the smoothing role of the exchange rate disappears. Massive capital inflows have the power to foster asset booms, easy credit and excessive investments in the receiving countries (Vianello, 2005; Lane and Milesi-Ferretti, 2014). As a result, two different growth patterns emerged across the Euro Area: an export-led growth model in the core and a debt-led growth model in the periphery (Stockhammer, 2013). The two were closely interdependent (Hein, 2012).

Credit booms and asset-price bubbles in the deficit countries provided banks in surplus countries with strong incentives to increase their exposure. There is evidence (Hale and Obstfeld, 2014) that after the euro’s introduction banks in surplus countries increased their borrowing from outside of the EMU in order to increase their lending to the deficit countries within the EMU. This behaviour dramatically fuelled imbalances and increased the fragility of the whole banking sector.

A single monetary policy for the whole area could not be tailored on the diverging needs of the participating countries. It meant that interest rates could not move according to the requirements of different domestic conditions (Currie, 1997), with inflationary booms in some countries not shared by other countries that rather experienced stagnation periods. When there are divergences in inflation rates a common nominal policy rate set by the common central bank implies lower real interest rates in higher inflation countries, therefore "stoking up demand" in these countries, and reinforcing the divergences (Arestis and Sawyer, 2011).

2. Supply or demand?

The explanation of external imbalances accumulated in the Euro Area prior to the crisis has often put cost competitiveness at the centre, arguing that the divergences in unit labour costs (ULC) were the main driver of such imbalances. However, the mechanism described above seems to suggest that it was rather a gradual but large demand shock what drove the divergences in the external positions of the Member States.

We try to investigate this question by running a regression of the current account balance on domestic demand and on unit labour costs, in order to see which of the two factors explains better the changes in the external positions. The specification takes this form:

\[ \Delta CA = \alpha + \beta \Delta \log (DD) + \gamma \Delta \log (ULC) + F_i + F_t + \varepsilon \]

Where CA is the current account balance in percentage of GDP, DD is domestic demand at 2010 constant prices, ULC is nominal unit labour costs\(^3\), F\(_i\) are country fixed effects, and F\(_t\) time fixed effects.

\(^3\) Ratio of compensation per employee to real GDP per person employed.
Table 1: Estimated current account equation in the EA, 1999-2014

<table>
<thead>
<tr>
<th></th>
<th>OLS Panel</th>
<th>OLS Prais-Winsten AR(1)</th>
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<tbody>
<tr>
<td></td>
<td>(1)</td>
<td>(3)</td>
</tr>
<tr>
<td>Dependent variable = CA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sample</td>
<td>EA</td>
<td>EA</td>
</tr>
<tr>
<td>ULC</td>
<td>-0.146 (-0.04)</td>
<td>-1.471 (-0.41)</td>
</tr>
<tr>
<td>DD</td>
<td>-43.410*** (-16.29)</td>
<td>-45.896*** (-16.39)</td>
</tr>
<tr>
<td>Constant</td>
<td>0.851*** (5.66)</td>
<td>161.479*** (2.63)</td>
</tr>
<tr>
<td>R-sq</td>
<td>0.490</td>
<td>0.498</td>
</tr>
<tr>
<td>Obs</td>
<td>270</td>
<td>270</td>
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<tr>
<td>Country FE</td>
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<td>Time FE</td>
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Note: The table reports the estimates of OLS Panel and Prais-Winsten AR(1) regressions. Dependent variable is the change in the current account balance in percentage of GDP. The annual data are from Ameco. Values in parentheses are t-statistics. *** p<0.01, ** p<0.05, * p<0.1.

Table 1 summarizes the results for the equation explaining changes in the current account balance with changes in domestic demand and ULC. The role of domestic demand is statistically significant at the 1% level in all specifications of the model, while the same is not true for ULC. The results hold true when we control for time fixed effects, or when we use the Prais-Winsten estimator, and also when we use both. These results suggest that demand fluctuations are more important than relative competitiveness in explaining the current account imbalances in the EA.

They also confirm what had been pointed out in the recent literature on current account in the Euro Area: the hypothesis that intra-EMU trade imbalances were caused not so much by changes in relative cost competitiveness, but rather by demand shocks (Storm and Naastepad, 2014). Di Mauro and Forster (2010) also argue that over the last twenty years the correlation between unit labour costs and export growth has been decreasing. Several studies had proved that, particularly in the Euro Area, changes in relative cost competitiveness were not the significant determinant of current account imbalances (Gabrisch and Staehr, 2013; Gaulier and Vicard, 2012). Divergences in unit labour costs were more a consequence than a cause of demand shocks triggered by capital flows.

In order to further analyse this relation, it is worth investigating whether there is any diverging path among surplus and deficit countries within the Euro Area. The imbalances accumulated up
to the crisis divided the area in two main groups of countries, with opposite stances\textsuperscript{4}. We run the same regression splitting the Euro Area in deficit and surplus countries.

Table 2: Estimated current account equation in EA Deficit and Surplus countries, 1999-2014

<table>
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<tr>
<th>Dependent variable = CA</th>
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</table>

Table 2 summarizes the results for the two groups of countries. The coefficient for domestic demand is still statistically significant at the 1% level in all specifications, for both surplus and deficit countries. However, ULC are significant at the same level only in surplus countries. The same results hold true when we control for time fixed effects. They show that demand factors were certainly determining current account positions in both parts of the EA; however improved relative competitiveness played a role only in surplus countries.

This may suggest that the demand shock was the key driver of external imbalances within the Euro Area, but efforts to improve relative competitiveness in surplus countries were also contributing. The results confirm the findings by other studies (Diaz Sanchez and Varoudakis, 2013) who found that, in deficit countries in the Euro Area, unit labour costs play a "negligible" role in explaining growing external imbalances.

\textsuperscript{4} Several classifications have been attempted to define these two groups, based on geographical criteria (core vs periphery), financial problems (stressed vs non-stressed), or trade balances at a certain point in time (surplus vs deficit at the beginning of the crisis). This last criterion is more objective, but it seems more correct to apply it to the cumulative stance developed up to 2007. In other words, the division of EMU countries in the two groups of surplus and deficit, used in this paper, is based on the cumulative CA balance up to the crisis.
3. The adjustment

The "private insurance channel" was at the core of the EMU functioning, allowing for those transfers from surplus to deficit countries that could not occur through any common institutional or policy arrangement, as a common fiscal capacity. A key difference between a transfer system exclusively based on financial markets and one based also on a common institutional setting is that the former behaves in a more pro-cyclical way. As a matter of fact this mechanism was broken by the financial crisis, which, even if originated in the US, challenged the solidity of the EMU’s architecture: capital flows from surplus to deficit countries came to a sudden stop (Lane, 2013). The "private insurance channel" instead of acting as a stabiliser suddenly contracted. Its resilience and the sustainability of a monetary union based on it proved weak. Imbalances built until that point became a source of concern. Current account deficits were not backed anymore by intra-EA transfers, even if in the form of private capital flows; therefore they became unsustainable. The Euro Area then faced an urgent rebalancing problem.

The burden of the adjustment fell mainly on deficit countries, under bigger pressure to restore equilibrium in the external balance. In the absence of those capital flows which had sustained and fuelled so far the external imbalances, these countries had to drastically compress domestic demand, in order to reduce imports. Current account imbalances considerably narrowed and deficit countries reduced their current account deficits by 80% between 2007 and 2013, a reduction equal to 0.7% of world GDP (Lane and Milesi-Ferretti, 2014). The narrowing of external imbalances has been achieved even more rapidly than their accumulation, and it has been associated with a comparable rise in intra-EMU divergences.

A more detailed analysis of the adjustment process can help us understand how this occurred. We can investigate the relevance of cyclical factors in this adjustment, and to this end we test the impact of a cyclical indicator, like the output gap, on the current account stance. At the same time, and as suggested by the "twin divergences", it is interesting to study to what extent unemployment is associated to the current account positions. Therefore, the equation to be estimated is the following:

\[ \Delta CA = \alpha + \beta \Delta Y^* + \gamma \Delta U + F_i + F_t + \varepsilon \]

Where CA is the current account balance in percentage of GDP, \( Y^* \) is the output gap, \( U \) is the unemployment rate, \( F_i \) are country fixed effects, and \( F_t \) time fixed effects. It seems also useful to understand if the relation between these factors and the current account balance is a stable characteristic of the system over time, or if the change imposed by the crisis has played a role. To disentangle this effect, we split the sample in two periods, a first one, from the inception of the EU until the outbreak of the crisis (1999 to 2008), and a second one, covering the adjustment period (2009-2014).
### Table 3: Estimated equation of current account balance on output gap and unemployment, pre-crisis (1999-2008) vs adjustment period (2009-2014)

<table>
<thead>
<tr>
<th></th>
<th>OLS Panel</th>
<th>OLS Prais-Winsten AR(1)</th>
</tr>
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<tbody>
<tr>
<td>Sample</td>
<td>EA</td>
<td>EA</td>
</tr>
<tr>
<td>Years</td>
<td>1999-2008</td>
<td>2008-2014</td>
</tr>
<tr>
<td>OUTPUT GAP</td>
<td>-0.125</td>
<td>-0.145</td>
</tr>
<tr>
<td></td>
<td>(-1.09)</td>
<td>(-1.30)</td>
</tr>
<tr>
<td>UNEMPL</td>
<td>0.332</td>
<td>0.307</td>
</tr>
<tr>
<td></td>
<td>(1.56)</td>
<td>(1.55)</td>
</tr>
<tr>
<td>Constant</td>
<td>-0.173</td>
<td>-0.167</td>
</tr>
<tr>
<td></td>
<td>(-0.93)</td>
<td>(-0.93)</td>
</tr>
<tr>
<td>R-sq</td>
<td>0.042</td>
<td>0.044</td>
</tr>
<tr>
<td></td>
<td>0.270</td>
<td>0.291</td>
</tr>
<tr>
<td>Obs</td>
<td>152</td>
<td>152</td>
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<tr>
<td>Country FE</td>
<td>v</td>
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<td>Time FE</td>
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</tbody>
</table>

Note: The table reports the estimates of OLS Panel and Prais-Winsten AR(1) regressions. Dependent variable is the change in the current account balance in percentage of GDP. The annual data are from IMF-WEO April 2015. Values in parentheses are t-statistics. *** p<0.01, ** p<0.05, * p<0.1.

Table 3 summarizes the main results of the regression, with the split into two periods. First of all, both the output gap and the rate of unemployment help explain the external imbalances in the EA in a statistically significant way. The coefficient associated to the unemployment rate seems bigger. Secondly, we note that in the adjustment period, compared to the pre-crisis years, the explanatory capacity of the model, composed only by these two elements, increases substantially; the R-sq is multiplied by a factor of six. Thirdly, the coefficients associated with the two explanatory variables, output gap and unemployment rate, are statistically insignificant in the pre-crisis period, but the systematically become significant during the adjustment period, under all estimation used (panel or Prais-Winsten) and regardless of the controls for time fixed effects.

These results have strong implications for the hypothesis we wanted to test. First, we find confirmation that the outbreak of the crisis has changed something in the functioning of the EMU, and in particular on the underlying determinants of the current account positions of the Member States. Second, while unemployment rates and output gaps do not seem to have been significant drivers of the accumulation of external imbalances, they do play a key role in explaining the subsequent adjustment of those imbalances. This confirms the cyclicality of the adjustment in the Euro Area (Tressel and Wang, 2014). The reduction of external imbalances within the EA implied an important fall in aggregate demand, through a reduction of imports in deficit countries. Third, in the adjustment period, the relative importance of unemployment seems to increase, even over the cyclical fluctuations.
Even if external imbalances had mainly been driven by demand shocks, rather than changes in relative cost competitiveness (Di Mauro and Forster, 2010; Gaulier and Vicard, 2012; Diaz Sanchez and Varoudakis, 2013; Gabrisch and Staehr, 2013; Storm and Naastepad, 2014), a big effort was done in deficit countries to regain relative competitiveness by reducing relative unit labour costs (ULC). The combination of large negative net foreign asset positions and markets pressure forced deficit countries to reduce relative prices in order to reorient spending towards domestic goods and services, and production to the tradable sector. Being in a currency union, devaluation had to be achieved through a fall in domestic prices relative to trading partners (Kang and Shambaugh, 2015). For this reason the adjustment focused also on reducing unit labour costs, and labour shedding has been the main driver of this adjustment.

The reduction of unit labour costs in deficit countries has largely come from falling employment. This pattern of adjustment has had an impact on the functional distribution of income. In particular, policy measures removing rigidities and improving flexibility in the labour markets have often been associated with a decline in the overall wage share in the economy. This, in turn, has an impact on aggregate demand in the Euro Area. Being the EA a large domestic market, its relatively limited trade openness implies that the benefits of overall wage moderation in the entire area on the international competitiveness may not offset the costs caused by a fall in domestic demand. The negative effects on overall aggregate demand of a reduction in the adjusted wage share confirm this hypothesis (Lavoie and Stockhammer, 2013).

The key problem is that each country could have an incentive to moderating wages (removing rigidities, reducing ULC, decreasing wage shares), thus reducing domestic demand, in order to gain relative competitiveness, but at the EA aggregate level this determines a deflationary spiral (Stockhammer et al, 2009). The illustration of this phenomenon is given by the decomposition of GDP growth of the Euro Area by expenditure component:

Figure 2: Contributions to year-on-year volume growth of GDP by expenditure component, in the Euro Area (2000-2014, quarterly)
The two falls of GDP in the Euro Area were associated with very different situations: in 2008 and 2009 the EA experienced a deep recession, like all other major economies in the world, and all expenditure components of GDP fell significantly, gross fixed capital formation and changes in inventories in particular. The private sector was deleveraging, then for a short period of time the public sector took over and partially compensated the fall in demand with countercyclical fiscal policies, which became the only source of growth.

Between 2011 and 2013, instead, the recession was very much specific to the EA, household consumption and investments by firms fell significantly, government spending did not play any countercyclical role, the only component supporting growth in the EA was net export. In other words, the second largest domestic market in the world turned into and export-led economy. This paradox leads some authors to argue that this growth model makes it impossible for the euro to challenge the dollar as an international currency\(^5\) (Germain and Schwartz, 2014).

### 4. An inherent deflationary bias

When the financial crisis triggered a worldwide collapse in aggregate demand and a sudden stop to the "private insurance channel", the EMU found itself deprived of any common instrument for demand management: an extremely limited common budget, no “built-in” fiscal stabilizers, and an explicit no-bail-out clause. Any reaction had to be operated at national level, but fiscal rules implied that a premature "exit strategy" had to be initiated (Acocella, 2011).

The original EMU architecture assumed that an ECB mandate to pursue price stability and fiscal rules preventing excessive government deficits would ensure macroeconomic stability (Godley, 1992; Obstfeld, 2013). The building criteria did not take full account of unemployment as a key indicator and “an all-out threat to monetary stability” (Dornbusch, 1996), nor of the current account positions in the convergence criteria (Arestis and Sawyer, 2011) \(^6\).

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\(^5\) Germain and Schwartz (2014) explain that until the Euro Area can run a current account deficit with the global economy, it is impossible for the euro to challenge the dollar in this regard. They argue that the euro-zone is not politically capable of running the kind of deficits required to underpin an international currency.

\(^6\) The overarching legal bases of the EU, the Treaties, subordinate the objective of full employment to the one of price stability. The two objectives are not on an equal footing, the second being pursued "without prejudice to" the first. The guiding principles give prominence to keeping fiscal balances under control and warn against the risks of balance of payments disequilibria. In order to comply with these principles, national policies have to deploy their policy tools towards maintaining relative competitiveness and avoid expansionary fiscal policies. The Common Provisions of the Treaty on European Union (TEU) mention in Article 3 the aim of full employment, however the Treaty on the Functioning of the European Union (TFEU) explains that the "primary objective" of the "single monetary policy and exchange-rate policy shall be to maintain price stability" and only "without prejudice to this objective" they "shall support the general economic policies in the Union with a view to contributing to the achievement of the objectives of the Union as laid down in Article 3 of the TEU". Moreover "the Member States and the Union shall entail compliance with the following guiding principles: stable prices, sound public finances and monetary conditions and a sustainable balance of payments". (Articles 119 and 127).
The focus was on fiscal rules, which determined a constraint on fiscal policies in the overall fiscal stance of the area, for two main reasons. First, the “overdone insistence on fiscal criteria” (Dornbusch, 1997) implies that EMU countries are permanently under pressure to maintain their fiscal balance. But, as a consequence, this requires a similar pressure to increase either net exports or net investments. This in turn means that savings or imports have to fall, or investments or exports have to rise. Restrictive monetary and fiscal policies, then, imply that a fall in income remains the main policy leverage to achieve balance (Arestis, 2000; Michie, 2000). Second, since at the EMU level there is no common fiscal policy, no fiscal capacity, nor the possibility to run budget deficits, national governments are the only entity allowed to run budget deficits, but they have to do so in a currency they do not control (Arestis and Sawyer, 2011, De Grauwe, 2013), therefore they become more exposed than others to sovereign debt crises.

A contraction of demand, as the one generated by the global shock of 2008, reduces tax revenues and puts pressure on public finances. If, as required by the rules, the immediate response consists in spending cuts and/or higher taxes, domestic demand further contracts and fiscal policy becomes fully pro-cyclical (Currie, 1997). If this happens at the same time in countries that intensively trade among themselves, even external demand shrinks (Stockhammer et al, 2009). The prolonged fall in aggregate demand can also hamper potential output through hysteresis effects (Blanchard and Summers, 1986).

Within the EA there were quite different patterns of adjustment of external imbalances; deficit countries reduced their imbalances by more than 80%, while the overall external position of surplus countries remained broadly unchanged (Lane and Milesi-Ferretti, 2014). This is due to the different nature of the pressures deficit and surplus economies are subject to, once a sudden stop in the underlying capital flows between them occurs. In the absence of incoming transfers or exceptional financial assistance, large external deficits become unsustainable, while this is not necessarily the case for surpluses, since they do not depend on foreign investors to finance domestic consumption and investments (Blanchard and Milesi-Ferretti, 2012).

This analysis is far from being a new one: the "secular international problem" of balance of payments imbalances that "throw the main burden of adjustment on the country which is in the debtor position on the international balance of payments" was at the core of John Maynard Keynes' reflection on a more stable international monetary system (Keynes, 1940). Adjustment is “compulsory for the debtor and voluntary for the creditor”, as Keynes put it.

The problem of the asymmetric pressure to rebalance faced by surplus and deficit countries is also at the core of the EMU macroeconomic performances and greatly affects its growth model. On one side, prolonged divergences in the balance of payments between countries in the monetary union imply that unused surpluses keep aggregate demand on a sub-optimal level. On the other side, the efforts by deficit countries to adjust their external balances through

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7 The “sectoral financial balances” approach (Godley, 1999) explains that at any point in time the sum of the sectoral balances of the private domestic sector, the government budget and the external one has to be zero: \((G-T) + (X-M) + (I-S) = 0\). This implies that if the government deficit is to be permanently limited, then the external balance and the net investments balance have to face similar pressures.
deflationary measures generate contractionary pressures on the whole area. This creates a deflationary bias in the system and prevents it from achieving sustained growth and full-employment.

This case is particularly relevant for the EMU, today. First of all, countries in a monetary union lack the potential contribution of the exchange rate to the adjustment process, having to fully rely on the internal adjustment of relative prices and wages. This implies that the process becomes then considerably more painful (Lane and Milesi-Ferretti, 2014). Secondly, if the economy is close to a liquidity trap, like it happens today, interest rates already close to the lower bound cannot decrease to balance increased savings. Therefore, large surpluses in some countries reduce aggregate demand and output in the others. If, moreover, the room for expansionary fiscal policies is limited, as it is the case in the EMU, the burden of the adjustment on deficit countries becomes even more painful (Blanchard and Milesi-Ferretti, 2012).

The institutional incompleteness of the EMU and the partial macroeconomic arrangements made the system biased towards low growth and high unemployment. If (1) the pressure for adjusting is asymmetric; (2) there are no common institutions to promote and coordinate demand management; (3) the response can only be provided at national level; and (4) the margins of manoeuvre left to national governments are mainly towards restrictive policies; then the whole area has an inherent deflationary bias, which determines subdued growth rates in good times, or longer stagnations and recessions in the worst cases.

In the absence of common institutional arrangements to promote and coordinate expansionary policies in the whole area, the EMU faced a cruel trade-off: growth with imbalances, or balance without growth. Either it had to rely on the pre-crisis growth model, when financial integration was substituting the missing common fiscal capacity, channelling resources from surplus to deficit countries, and fuelling unprecedented imbalances. Or it had to impose restrictive policies at national level, with the aim of consolidating public finances and achieving balanced external positions, at the price of a drag on growth. In the worst case scenario, if deflationary policies are prolonged, it may also face the even more unpleasant situation of imbalances without growth. The system lacks an instrument capable of defusing this dangerous mechanism.

5. What kind of fiscal capacity?

It had been argued that a common fiscal capacity for the EMU was unavoidable (Kenen, 1969; Eichengreen et al, 1990; Solow, 2005), that a monetary union was "unattainable" without fiscal integration and not just fiscal harmonisation (Kaldor, 1971; Feldstein, 1992), and that its absence was the “major design failure” of the EMU (Eichengreen, 2000; De Grauwe, 2013). In the EMU, economic cycles are less synchronized than in more complete federations, therefore a common fiscal capacity would have played an important role and fiscal centralization would have also enhanced private risk-sharing mechanisms (Poghosyan et al, 2015). The lack of such a common mechanism of fiscal capacity is more worrying when we consider the two inherent characteristics of the EMU architecture previously described: the permanent risk of a deflationary bias and the tendency to generate imbalances.
The two problems are linked to each other through the balance of payments constraint. When the economic integration of a currency union is driven by capital flows channelled through financial markets, balance of payment disequilibria are likely to arise. If imbalances are to be adjusted, and the natural pressure to adjust is asymmetric between deficit and surplus countries, then few options remain in a monetary union: foreign financial assistance, which is often accompanied by moderation of domestic demand, and the internal adjustment of relative prices, which reinforces the deflationary trend. For this reason, the design of an alternative adjustment mechanism, like a common fiscal capacity, should have been based on the relative external positions of the participating countries.

This idea, as we have anticipated, is not new. Keynes' plan for an international clearing union of 1942 was conceived precisely on the basis of this underlying analysis, in view of the Bretton Woods monetary arrangements. Keynes was concerned about the asymmetric consequences of a mercantilist strategy in a fixed-exchange rate system and with their impacts on effective demand and employment. The building up of balance of payments imbalances increased the risk of having to apply deflationary measures in deficit countries to adjust and restore competitiveness. This would in turn create periodic falls in aggregate demand and prevent the system from achieving full-employment.

The absence of an organized system of international payments was the key institutional weakness Keynes wanted to address with his plan, which aimed at building the necessary institutions to prevent a disorderly international system (Piffaretti, 2009). He suggested the introduction of an international clearing union (among national central banks) to apply to international payments the same institutional arrangement governing payments within nations, centred on a system of banking clearing (Piffaretti, 2009).

He proposed an international closed system of payments that, within a currency union, ensured symmetric rebalancing between deficit and surplus countries, with restrictions on speculative capital flows, limits on holding international reserves, and the possibility to adjust the exchange rate to reflect changes in efficiency wages. This system would have been capable of ensuring full employment in all countries (Keynes, 1942). If this plan was too ambitious to be applied at a global level, its relevance for a smaller but tighter international monetary system like the EMU is evident. The European Commission, therefore, took this view into account in a series of technical reports issued during the seventies, in preparation of the monetary union.

The “Marjolin Report” (EC, 1975) developed an analysis of the conditions to be fulfilled to create a monetary union in Europe. It acknowledged the need for a central authority “with a relevant important budget”9, and for “centralized fiscal and social security systems ensuring a certain degree of redistribution”. It stressed the necessity of closer political and financial integration and went even further proposing a “Community Unemployment Benefit Fund”.

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8 Keynes himself defined it an "ideal scheme, complicated and novel and perhaps Utopian", but also "a measure of financial disarmament" (Keynes, 1940, in Piffaretti, 2009).

9 The Report even quoted examples of what was meant by “relevant”: the proportion of the “Bund” in Federal Germany, around 13% of GNP; and the proportion of federal expenditures on GNP in Canada, about 16%. 
Another report by the European Commission (the “MacDougall Report”, EC, 1977) conducted an analysis of the role of public finances in the European integration, with a particular focus on the stabilisation effects of a common budget. It highlighted that inequalities between countries in the Community were not higher than regional inequalities within countries, and that the redistributive function of the national budget at regional level reflected corresponding positions of the regions in their balance of payments on current account.

The report found that within countries between one half to two-thirds of a short-term loss of primary income in a region due to a fall in its external sales was automatically offset through lower payments of taxes and insurance contributions to the centre, and higher receipts of unemployment and other benefits. It also studied the extent to which inter-regional income differences within countries were reduced by central or federal public finances, in eight case studies (Germany, UK, France, Italy, USA, Australia, Canada and Switzerland). It found that around 40% of the differences were reduced by internal fiscal transfers, through the common national budget.

In recent years, several authors have highlighted the relevance of the original intuition by Keynes of the link between coordinated fiscal policies and relative positions in the balance of payment (Piffaretti, 2009; Hein, 2012; Bagnai, 2014; Whyman, 2015). The key issue is the operation of the international adjustment mechanism, and whether that mechanism is automatic or coordinated, and also sufficiently compatible with overall aggregate demand to provide full employment (Kregel, 2009). This requires international policy coordination (Guttmann, 2009; Lane and Milesi-Ferretti, 2014).

Hein (2012) highlights the need that countries running permanent current account surplus expand domestic demand and thus increase imports (or appreciate their currencies), so that the whole burden of adjustment is not carried by the deficit countries, but most of all this would sustain aggregate demand, which will be needed in the future, not only in the short run but also in the long run. If structural divergences among EMU countries determine external imbalances, there is a need for a fiscal capacity to support the rebalancing and the long term equilibrium of the external positions.

Whyman (2015) explains in detail the relevance of these ideas for the present EMU situation: the reliance on export-led growth, the asymmetric nature of the adjustment, and the consequent deflationary bias, all increase the threat to its sustainability. Only if creditors are encouraged to increase the economic activity, then their imports from deficit countries, could a higher level of aggregate demand be restored, and full employment sustained. A decrease in current account surpluses, through a combination of real exchange rate appreciation and higher domestic demand in surplus countries, can lead to higher output in deficit countries (Blanchard and Milesi-Ferretti, 2012).

The relevance of Keynes' analysis for the definition of a common fiscal capacity in the EMU translates into the link between relative positions in the external balance of participating countries and their contribution to a common budget. This is the way a common fiscal capacity ensures that relative intra-EMU surpluses are used to sustain overall aggregate demand and do not have the perverse effect of exporting unemployment to the neighbours. It is a form of built-
in automatic rebalancing mechanism, which guarantees intra-EMU equilibrium, symmetry, aggregate demand and full employment.

The advantages of a common fiscal capacity linked to the relative, intra monetary union, external positions of the participating countries, are multiple. First, such a scheme tends to reduce the external imbalances; in Keynes' words it is "a measure of financial disarmament" that if it was maybe too ambitious at a global level, it seems nevertheless desirable in the relations within an economic and monetary union. Second, it periodically corrects those imbalances in a symmetric way, ensuring that surpluses do not remain unutilised and that the absorption of deficits does not pose a drag on aggregate demand. Third, it reduces the need for the monetary union to exclusively rely on the efficiency and stability of financial markets to promote integration. By doing so, it considerably reduces systemic risks. Fourth, it provides an instrument for stabilization against common shocks. Fifth, it substitutes an inherent deflationary pressure in the system with an expansionary stimulus, propaedeutic to full employment.

6. Conclusion

This paper has tried to illustrate the economic rationale of an EMU fiscal capacity, without touching upon the political rationale for having, or for not having had, it. The functioning of the EMU during its first decade caused major asymmetries and imbalances. These were amplified by the shock originated by the global financial crisis, but the system was and still is deprived of the instruments to cope with them.

The pre-crisis growth model was based on the "private insurance channel", which was at the same time the glue keeping the monetary union together and a major source of imbalances. It operated as a de facto substitute for the missing fiscal capacity, channelling the excess of savings generated in countries with growing trade surpluses towards those with increasing trade deficits and indebtedness. A single nominal interest rate implied lower real interest rates in higher inflation countries, generating incentives for capital to flow there, further inflating the bubbles. This unprecedented rise in cross-country capital flows drove an enormous demand shock, which is at the basis of the large external imbalances.

The analysis then shows that the external imbalances were driven by the large demand shock brought forward by this mechanism, especially in deficit countries, rather than by differences in relative competitiveness. Divergences in unit labour costs were more a consequence than a cause of demand shocks triggered by capital flows. Intra-EMU financial integration sustained the development of external imbalances, in a kind of vendor-financing operation by surplus countries to deficit ones.

Once capital flows suddenly stopped, the need for rebalancing materialised. External imbalances rapidly narrowed; the analysis shows that the adjustment was significantly driven by an important fall in aggregate demand in deficit countries, with large output and employment gaps. Even though external imbalances had not been primarily caused by relative competitiveness, having accumulated large negative net foreign asset positions and threatened by markets pressure, deficit
countries had to reduce relative prices by reducing unit labour costs, and the main leverage of the adjustment was labour shedding.

Different patterns of adjustment of external imbalances between surplus and deficit countries implied that the efforts by the latter to adjust their external balances through deflationary measures generated inevitable contractionary pressures on the whole area. The "secular international problem", of balance of payment imbalances that "throw the main burden of adjustment on the country which is in the debtor position on the international balance of payments", fully materialized, suddenly making Keynes’ worries (1942) very relevant again.

These two key features of the EMU’s architecture, its tendency to generate imbalances and an inherent deflationary bias, are linked to each other through the balance of payment constraint. Removing this constraint required a common fiscal capacity the EMU has never had. Limiting the building up of those imbalances required that the design of such a fiscal capacity be linked to the relative, intra-EMU, positions of the Member States in the balance of payments. This would have automatically reduced the imbalances, periodically correcting them without a drag on overall aggregate demand; it would have also reduced the need for the system to exclusively rely on the efficiency and stability of financial markets, thus reducing systemic risks; it would have provided an instrument for stabilization against common shocks; and it would have substituted the inherent deflationary bias of the system with an expansionary stimulus, propaedeutic to full employment.

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