The Macroeconomics of External Adjustment COMPNET

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- 1995-2007: sharp rise in global capital flows; introduction of euro
- 2004-2007: global credit boom (especially in Europe), widening of net imbalances
- 2008+: sharp reversal in gross flows and net flows
- Boom-bust cycle in capital flows central to understanding the euro crisis debate (and reform proposals)

- Structural growth issues masked by large external imbalances, especially during 2003-2007
- Real estate booms in Ireland and Spain
- Delayed adjustment in Portugal, Greece
- Lack of productivity/output growth in traded sectors



Figure: Euro Area: Current Account Dispersion. Note: Standard Deviation of current account balances. Source: IMF WEO dataset.



Figure: Euro Area: NIIP Dispersion. Note: Standard Deviation of net international investment positions. Source: Updated version of dataset described in Lane and Milesi-Ferretti (2007).



Figure: Euro Area: Domestic Credit Growth and Net Foreign Debt Flows, 2003-2008. Note: Based on Lane and McQuade (2012).



Figure: Dimensions of Current Account Adjustment, 2007 to 2012. Note: Change in current account between 2007 and 2012 against 2007 current account balance.



Figure: Dimensions of Current Account Adjustment, 2007 to 2012. Output growth rate between 2007 and 2012 against 2007 current account balance.



Figure: Dimensions of Current Account Adjustment, 2007 to 2012. Note: Change in real exchange rate between 2007 and 2012 against 2007 current account balance.

Country	2003-2007	2007-2009	
Austria	0.04	0.00	
Austria	-0.04	0.09	
Belgium	0.10	0.16	
Finland	0.01	0.31	
France	0.15	0.04	
Germany	-0.10	0.23	
Greece	0.16	-0.06	
Ireland	0.35	-0.10	
Italy	0.03	0.17	
Luxembourg	0.11	0.34	
Netherlands	-0.03	0.10	
Portugal	0.09	N/A	
Spain	0.16	0.14	

Table: Growth Differential: Nontraded versus Traded Sectors

Note: Cumulative growth differentials. Allocation of sectors to traded and nontraded sectors follows Galstyan and Lane (2009). Source: Calculation based on sectoral data drawn from OECD STAN database.

		EA17		N=36	
	CA	HICP	PGDP	HICP	PGDP
Austria	3.5	1.0	0.1	-2.2	-1.1
Belgium	1.6	2.7	0.2	-0.4	-0.2
Finland	4.3	3.7	0.2	-1.1	-1.0
France	-1.0	-0.7	0.03	-4.6	-3.7
Germany	7.5	-2.5	-0.1	-6.4	-6.1
Greece	-14.6	3.8	0.2	1.6	0.1
Ireland	-5.4	-7.2	-0.6	-11.0	-16.8
Italy	-1.2	2.4	0.1	-1.9	-2.6
Luxembourg	10.1	2.9	0.4	1.2	6.0
Netherlands	6.7	0.1	-0.04	-2.1	-3.3
Portugal	-10.1	-0.5	-0.1	-2.6	-3.5
Spain	-10.0	0.4	-0.1	-1.8	-4.0
Correlation		0.08	0.35	0.005	0.29

Table: Real Exchange Rate Adjustment, 2007.Q4 to 2012.Q2

Note: 2007 current account balance. Real effective exchange rates based on HICP and GDP deflators. Correlations refer to correlation between change in real exchange rate and the initial current account balance. Source: European Commission's Price and Cost Competitiveness Database.



Figure 4. Change in Current Account Balance and Current Account Gap

Note: Scatter of changes in the current account balance between 2005-08 and 2010 against the 2005-08 residual from the current account balance regression reported in column (1) of Table 1.



Figure 5. Current account/GDP and real exchange rate: change between 2005-08 and 2010

Note: "change in REER 2010 vs 2005-08 average" is the log change in the CPI-based real effective exchange rate index between the 2005-08 average and 2010. "Change in CA balance, 2010 vs 2005-08" is the difference between the CA/GDP ratio in 2010 and the 2005-08 average. Source: authors' calculations based on International Monetary Fund, International Financial Statistics, Balance of Payments Statistics, World Economic Outlook.







Note to Figures 6-7: "change in real domestic demand, 2010 vs 2005-08 average" is the log change in real domestic demand between the 2005-08 average and 2010. The change in real GDP, 2005-08 to 2010 is defined analogously. "Change in CA balance, 2010 vs 2005-08" is the difference between the CA/GDP ratio in 2010 and the 2005-08 average. Source: authors' calculations based on International Monetary Fund, Balance of Payments Statistics and World Economic Outlook.

Ireland: CA/NIIP



- "Sudden Stops" versus "Soft Landings"
- Composition of external balance sheet (debt liabilities versus equity liabilities; currency exposures)
- "Expenditure Switching" versus "Expenditure Reduction"
- Transfer problem
- Flexible exchange rates versus pegged exchange rates versus currency union
- Behaviour of effective exchange rate indices

- Limited scope for real exchange rate movements in short run under a peg / currency union
- International price elasticities increasing over time
- Extensive margin of trade kicks in over longer time horizon
- (Real exchange rate and FDI location decisions)

- Current account deficits and domestic credit booms (Lane and McQuade 2012)
- Current account deficits and fiscal procyclicality
- Current accounts and sectoral composition of activity
- External adjustment; banking adjustment; fiscal adjustment; sectoral adjustment
 - myriad interaction effects
 - external balance sheet versus sectoral balance sheets
- Real exchange rate, relative price levels and real interest rate

- Traded/Nontraded sectors (Obstfeld/Rogoff 2005; Blanchard 2007)
- P_N/P_T a key relative price
- Sectoral productivity reforms (*A*_T versus *A*_N): implications for real exchange rate and external balance
- Traded sector: export sector; import-competing sector; imports
- Entry/exit in traded and nontraded sectors; endogenous tradability

Some Relevant Literature

- Chen, Milesi-Ferretti and Tressel, "External Imbalances in the Euro Area," *Economic Policy*, January 2013
- IMF, Pilot External Balance Assessment, 2012.
- Lane and Milesi-Ferretti, "External Adjustment and the Global Crisis," *Journal of International Economics*, November 2012
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- Lane and Pels, "External Imbalances in Europe," *Moneda y Credito*, 2012.
- Lane and McQuade, "Domestic Credit Growth and International Capital Flows," forthcoming.
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