Global Institutional Economics

Part 1.4

Euro-zone crisis: Problems & solutions

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Literature

- Self-Fulfilling Crises in the Eurozone (De Grauwe & Ji, 2012)
- Europe's non-solution: the 'bazooka' turned on itself (Auerbach, 2011)
- Only a more active ECB can solve the euro crisis (De Grauwe,
 2011).
- Toward a Fiscal Union for the Euro Area, (Allard, C. et al (IMF, 2013)

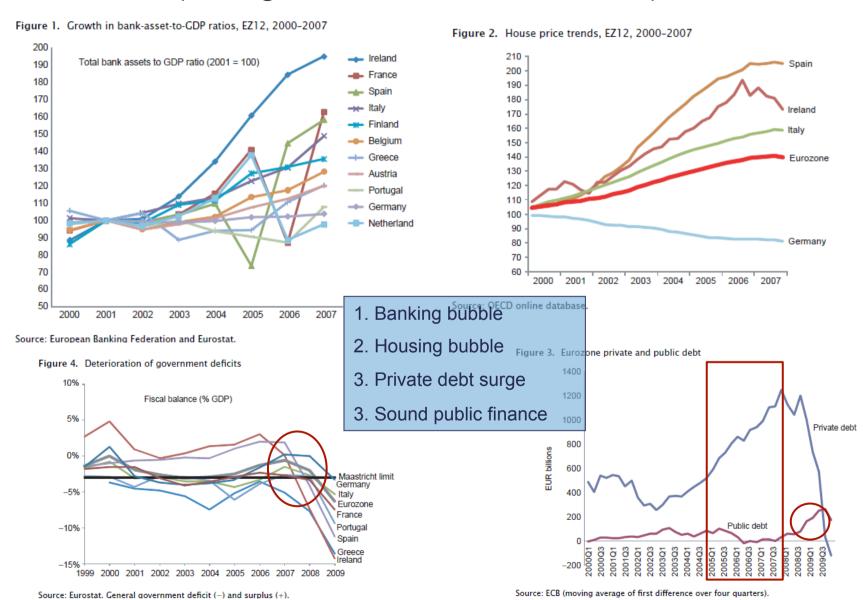
Outline

- Eurozone crisis
 - Run-up to the crisis:
 - Building-up imbalances
- Eurozone is not an optimum currency area
- Built-in self-fulfilling elements
- Resolving the crisis
 - Short run: Macro stabilization
 - Long run: Completing the monetary union

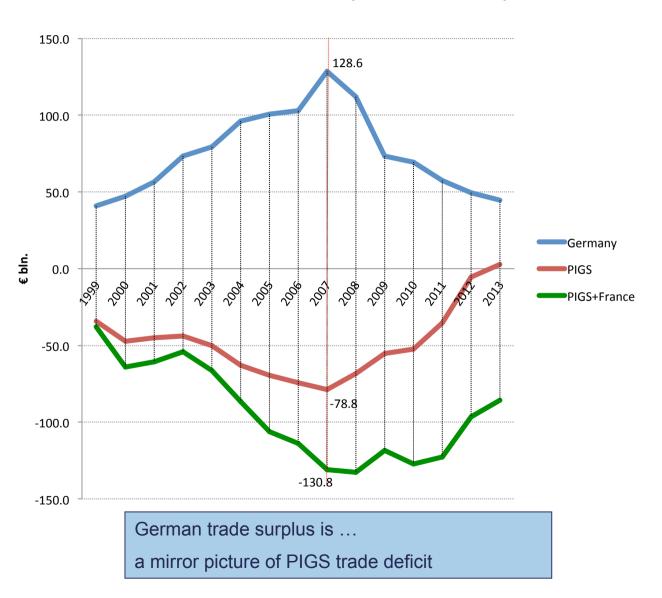
Building-up imbalances

The build-up of European imbalances

(Four figures from Baldwin & Gros, 2010)



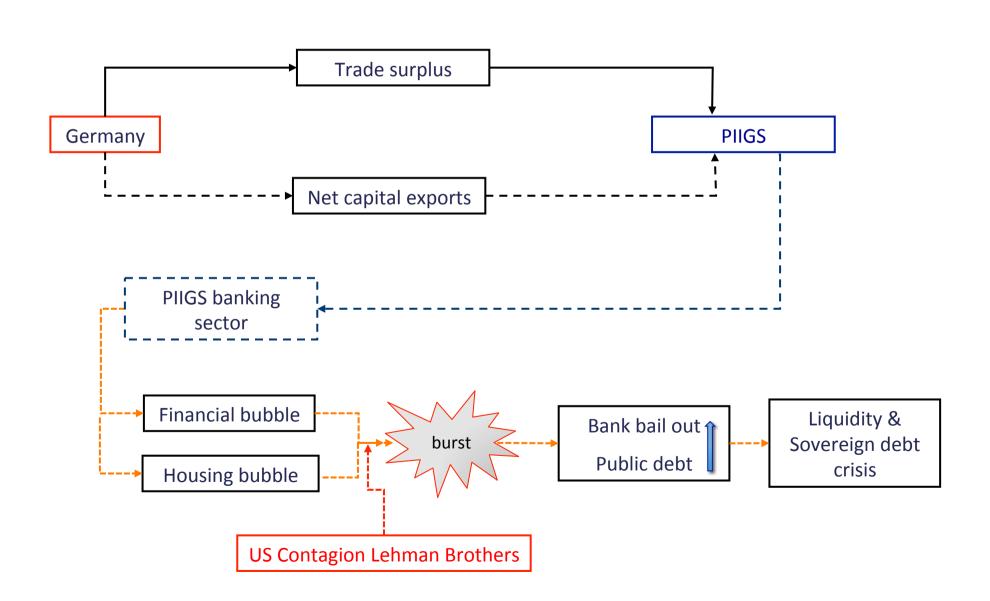
The vehicle of the problem Trade balance (DE vs PIGS)



Causes for crisis

- Similar disease as in the case US Asia
- Germany ran huge trade surpluses in trade with PIGS ...
- ...capital flows running in the opposite direction (financial sector, real estate)
- Consequences:
 - Debt overhang by private sector in PIIGS,
 - Governments stepping in with massive bank bail-outs
 - i.e. excessive private debt → resulting in sovereign crises

Eurozone: building-up imbalances and crises



Eurozone: Badly-designed MU

- Not optimal currency union
- No fiscal & transfer union
- Solidarity? What solidarity?
- No-bailout clause by the ECB
- But constraints on fiscal policies (SGP)
- Built-in Self-fulfilling elements

Self-fulfilling crisis

Self-Fulfilling Crises in the Eurozone (De Grauwe & Ji, 2012)

Fragility of *Eurozone*

- Eurozone countries are more prone to experience a sovereign debt crisis than countries not part of a MU
- Resulting from the essential feature of a MU:
 - Members of a MU issue debt in a currency over which they have no control
 - As a result, the governments cannot give a guarantee that the cash will always be available to pay out bondholders at maturity.
- No problem for 'stand-alone' countries
 - Can always call upon the central bank to provide the liquidity
 - Central bank as a 'Lender of last resort'

Fragility

- Absence of a guarantee creates fragility
- Member countries are susceptible to movements of distrust:
 - When investors fear some payment difficulty, e.g. triggered by a recession, they sell the government bonds
- This has two effects:
 - It raises the interest rate,
 - and leads to a liquidity outflow (as the investors look for safer places)

Fragility

- Liquidity crisis can easily degenerate into a solvency crisis
- Interest rate shoots up and the country is likely to be pushed into a recession
 - reducing government revenues and increasing the deficit and debt levels
- Combination of increasing interest rates and debt levels can push the government into default

Self-fulfilling elements

- When investors fear default, they act in such a way that default becomes more likely.
- A country can become insolvent because investors fear default.

Fundamental problem of a country in the MU

- Governments in a monetary union that cannot rely on a lender of last resort face a fragility problem:
 - their liabilities (bonds) are liquid and can be converted into cash quickly,
 - while government assets (physical assets, claims on taxpayers) are illiquid.
- In the absence of a central bank that is willing to provide liquidity, these governments can be pushed into a liquidity crisis
 - because they cannot transform their assets into liquid funds quickly enough.

Built-in defects of MUs

- In good times, investors' trust will be built upon the "MU effect",
 - notwithstanding the fundamentals of a particular member country
- When, however, market sentiments turn against a country
 - large movements in the spreads occur over short periods
 - whereby the latter appear to be dissociated from the fundamentals

Built-in defects (2)

- Financial markets systematically misprice the MU country risks
 - in good times, markets under-estimate the risks of MU countries,
 - while during the crisis investors over-estimate the risks
- This, in turn:
 - promotes building-up of bubbles, and
 - worsens the recovery prospects

10-year Government bond interest rate

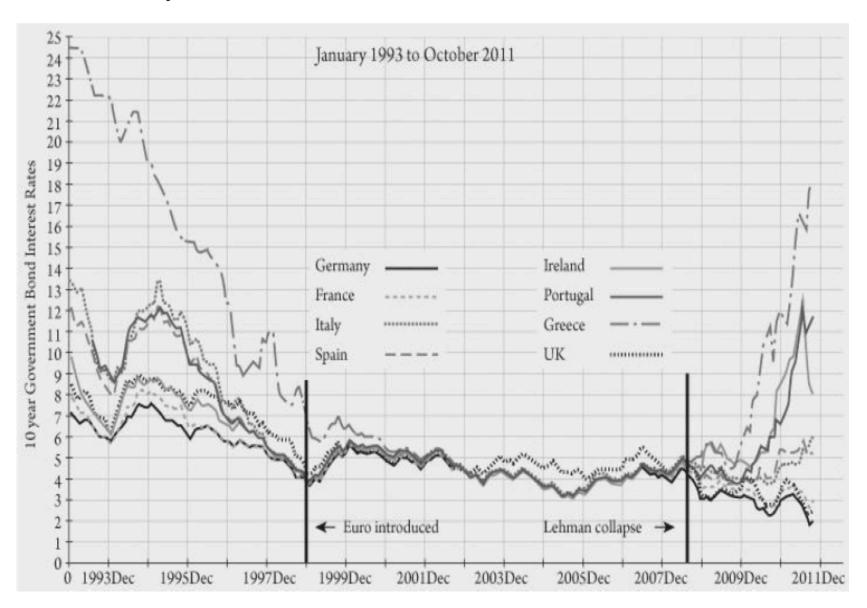
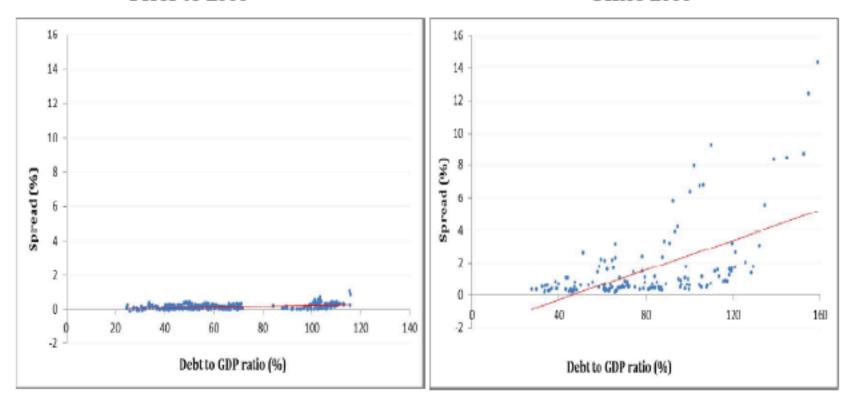
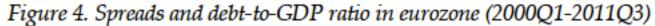


Figure 6. Spreads and debt-to-GDP ratios in eurozone
Prior to 2008 Since 2008





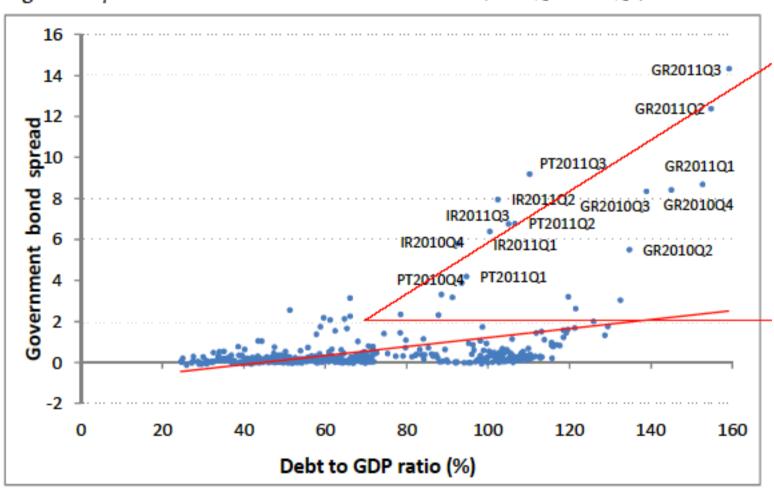
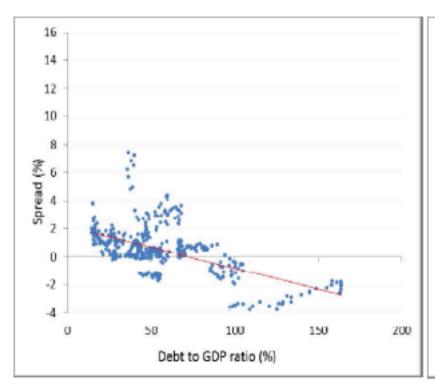


Figure 7. Spreads and debt-to-GDP ratios of 'stand-alone' countries





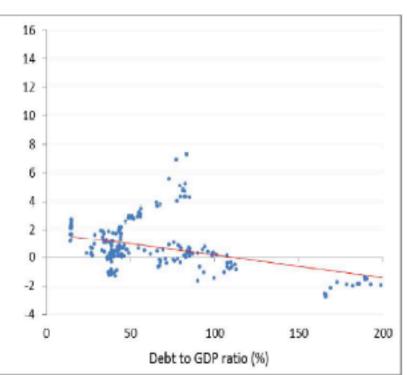


Table 4. Long-term government bond rate spread against Germany (%)

•	(1)	(2)	(3)
	Total sample	Pre-crisis_	Post-crisis
Current account GDP ratio	-0.0408*	-0.0240*	-0.0092
	[0.0208]	[0.0134]	[0.0244]
Debt to GDP ratio	0.0146*	0.0164	0.0190**
	[0.0078]	[0.0133]	[0.0083]
Debt to GDP ratio*Eurozone	0.0649***	-0.0069	0.0844***
	[0.0198]	[0.0141]	[0.0288]
Exchange rate against euro	-0.0283***	-0.0324***	-0.0200**
	[0.0067]	[0.0104]	[0.0076]
Country fixed effect	controlled	controlled	controlled
Observations	828	576	252
R squared	0.7669	0.9230	0.7981

Standard errors in brackets

- Before the crisis markets disregarded the fundamentals (d/GDP),
- while after the crisis markets more than proportionally punished EZ countries with poor fundamentals

^{*} p < 0.1, ** p < 0.05, *** p < 0.01

Discussion

What's wrong with the EuroZone?

Group 1

Compare the US and EZ's monetary union:

- Differences
- Why excessive trade deficits in one of the countries is a problem in EZ, but not in the US?

Group 2

Consider optimal currency area (OCA)

- Should Greeks et co. leave the imperfect EZ?
- Internal cost of bail-out vs. troika
- Benefits vs. costs of autonomous monetary & fiscal policy

Resolving the crisis

Part 1: Short run: Macro stabilization

Part 2: Long run: Fiscal consolidation & Transfer union

Part 1 Short run: Macro stabilization

Simple IS – LM framework

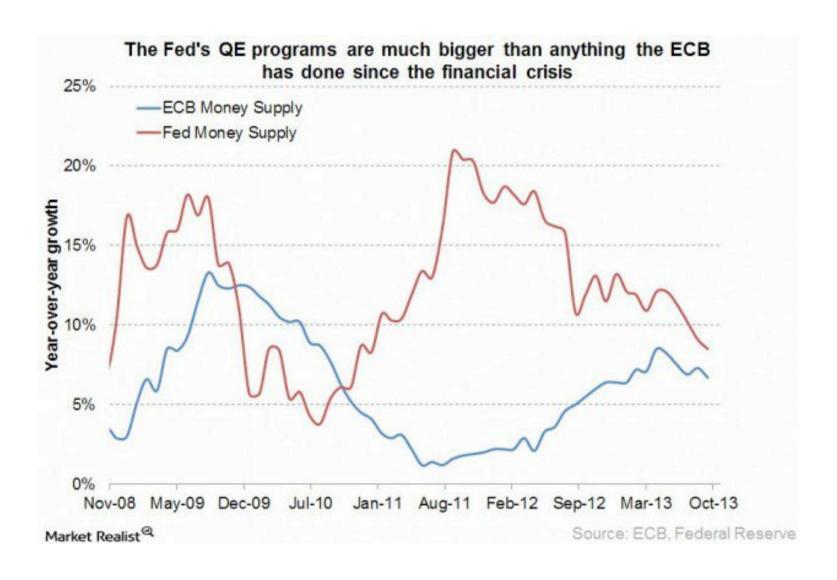
Intermediate macroeconomics, (Barde, 2010)

Did we learn from history?

- ZDA: Yes
 - Fed: Bernanke (scholar of Great Depression & Japan)
 - Liquidity, QE
 - Government:
 - Bankbailout, Oct 2008 (\$ 700 bln)
 - Stimulus, Feb 2009 (\$ 831 bln)
- <u>EU</u>: No
 - EC: No common stimulus (only an agreement on "permitted" stimulus, € 200 + 30 bln)
 - ECB: No-bailout clause

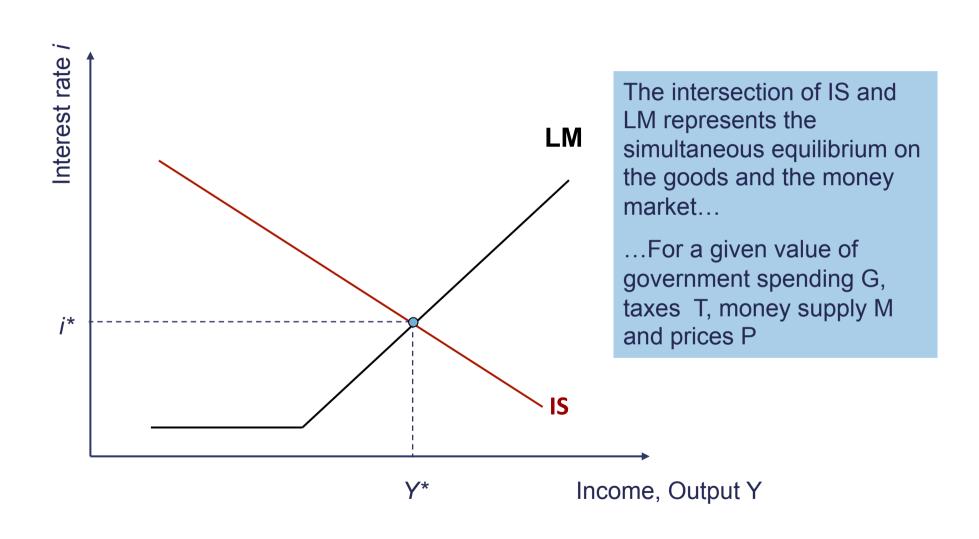
Non-conventional monetary policy

ECB vs. FED

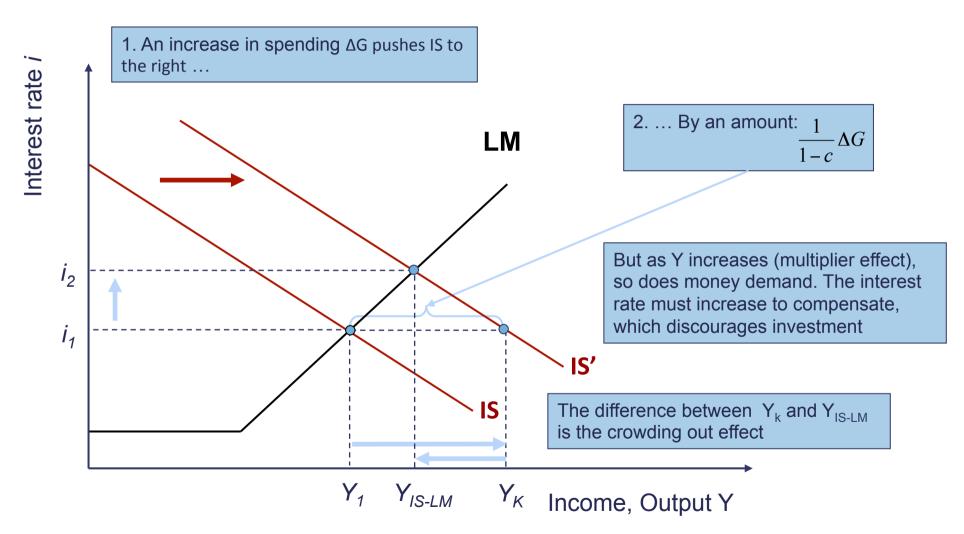


Short run: Macro stabilization

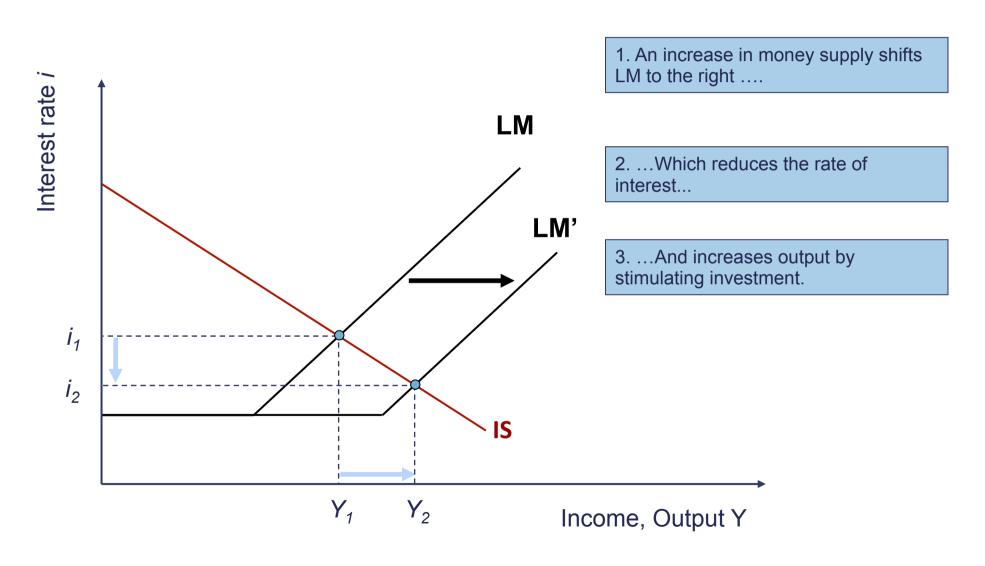
- Key: Stabilizing the depressed economies and restoring economic growth
 - Using macroeconomic policies,
 - Expansionary fiscal and monetary policies
- IS-LM model:
 - A good analytical tool for assessing macro policies
 - Finding optimal policy mix affecting:
 - Aggregate demand, interest rate, output and employment



Impact of public investment (fiscal stimulus)

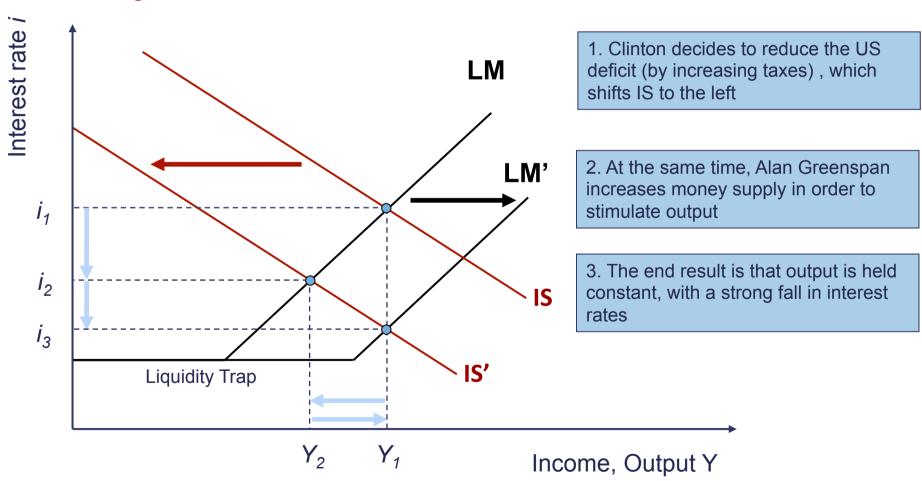


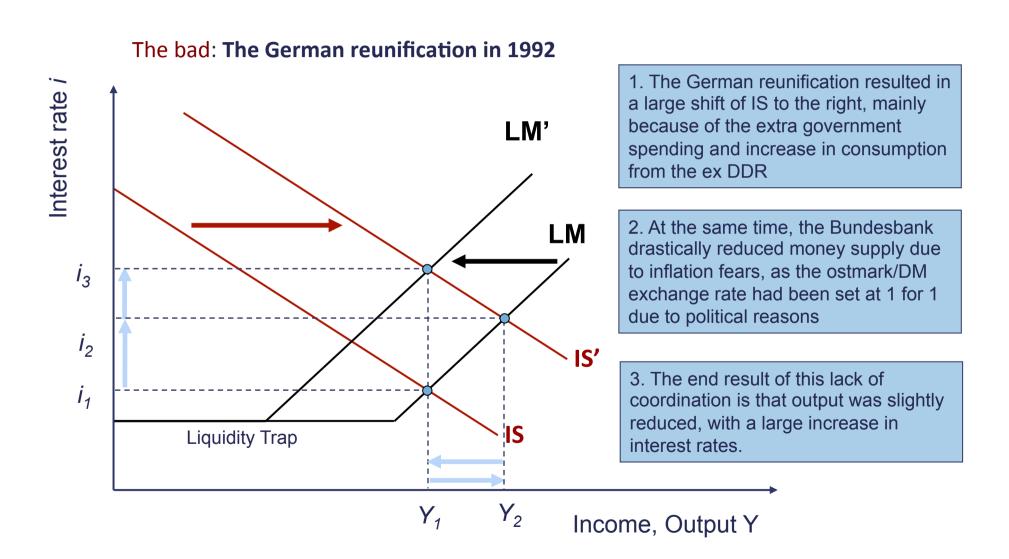
Impact of monetary policy (monetary stimulus)

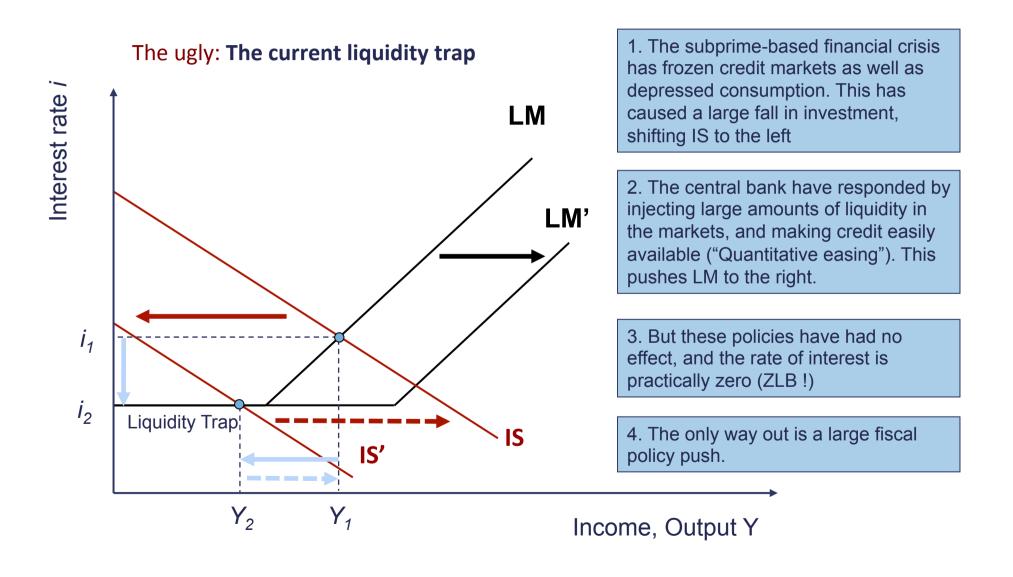


- The two policies are not independent, as they both affect the endogenous variables:
 - The interest rate i
 - Income Y
 - Hence the idea of a policy mix...
- 3 examples of policy mix issues
 - The good: the Clinton deficit reduction in 1993,
 - The bad: the German reunification in 1992,
 - The ugly: the current debate on the "liquidity trap".









Part 2 Long run: Fiscal consolidation & Transfer union

Europe's non-solution: the 'bazooka' turned on itself (Auerbach, 2011)

Only a more active ECB can solve the euro crisis (De Grauwe, 2011).

Toward a Fiscal Union for the Euro Area, (Allard, C. et al (IMF, 2013)

Foregone years

- During the euro-crisis, many years were wasted on internal power struggle Berlin vs. Rest of EU on proper handling of the crisis:
 - sharp fiscal consolidation vs. stimulus,
 - no role for ECB allowed (due to "No bail-out clause")
 - no EU bonds until the fiscal union is established
- ...at the cost of skyrocketing spreads of PIGS and pushing towards sovereign liquidity & solvency crisis
- ...until Mario Draghi set the stage (2012)
 - "whatever it takes" to save the Euro

ECB

- September 2012, after ECB announced the program of (conditional) buying up the bonds of weak countries,
 - spreads dropped to sensible levels
 - the issue of EZ survival is off the table
- In September 2014, Mario Draghi announced
 - Quantitative easing (a limited version of it)
- ... and called for policy coordination:
 - more expansive fiscal policies (where permitted),
 - structural reforms

Next steps

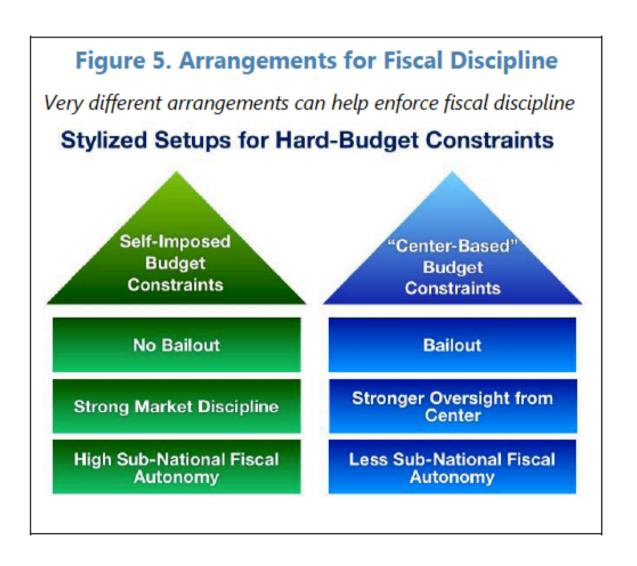
- Towards a Banking union (Stress test in 2014)
 - European Resolution Fund (ERF)
- Towards a Fiscal & Transfer Union (Long-run)
 - Fiscal consolidation (after growth is restored)
 - A permanent crisis resolution mechanism
 - (Some) centralized transfers
 - Euro bonds

Towards Fiscal & Transfer Union

- Minimal elements for fiscal union
- Common fiscal policy design:
 - Structural fiscal targets
 - Independent forecasts
 - Binding medium-term fiscal plans
 - Increased transparency & accountability
- Reinstating fiscal discipline
- Enforcement
 - Sanction
 - A veto power from the center
- Political accountability

Towards transfer union

First of all, stronger fiscal discipline needed



Towards transfer union

A 'rainy day fund' (Tommaso Padoa-Schioppa Group (2012))

• Size of the fund:

- annual contributions of 1½ to 2½ % GDP
- funding through social security contributions, etc.
- (e.g. ESM: 7½ % GDP (euro 700 billion))

• Pros:

ex ante support, before crisis unfolds into sovereign funding problem

• Cons:

free-riding (moral hazard problem)

Eligibility for transfers

	Eligibility for	Frequency of
	transfers	external shocks
	(1982 - 2007)	(1982 - 2007)
	#years	#years
DE	14	2
IT	12	0
BE	11	5
NL	11	1
FI	10	3
FR	10	2
GR	10	7
PT	10	7
AT	9	4
SP	9	4
SK**	7	3
SL*	4	1
EE*	3	3
IR	3	1
LUX		10

^{* 1998-2007}

^{** 1995-2007}

Big question

Will Euro survive ?

Good question, thank you!

A similar solution as to "How to save a bad marriage")
 (Martin Wolf, FT)