

The role of shocks and institutions in EMU and the US during the crisis

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Outline

1. Introduction

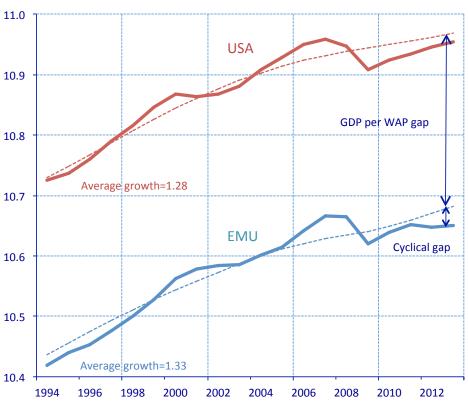
- 2. The role of shocks
- 3. The role of institutions
- 4. Conclusions



The crisis in EMU and the USA

GDP per working-age population





Both the USA and EMU suffered an intense recession in 2008 and 2009 ...

... caused by a financial crisis with huge effects on international trade

But EMU has suffered an additional sovereign debt crisis*, with important implications in terms of its cyclical gap



The crisis in EMU and the USA

GDP per working-age population (2Q2008=100)



The USA has recovered 2/3 of the fall in GDP per working-age population

The sovereign debt crisis in EMU put an end to the recovery of 2010 and 1H2011 ...

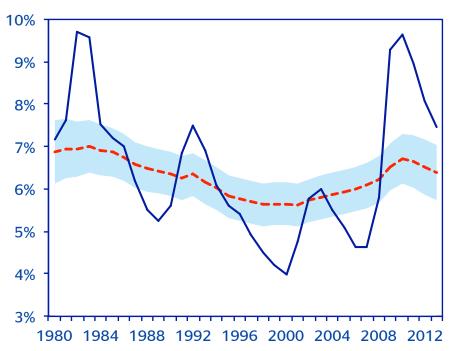
... such that the current level of GDP per working-age population is slightly lower than in 2009



Two different dynamics of the unemployment rate

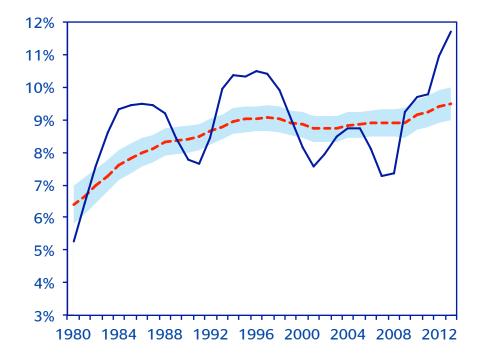
USA: unemployment rate and the NAIRU

Source: BBVA Research



EMU: unemployment rate and the NAIRU

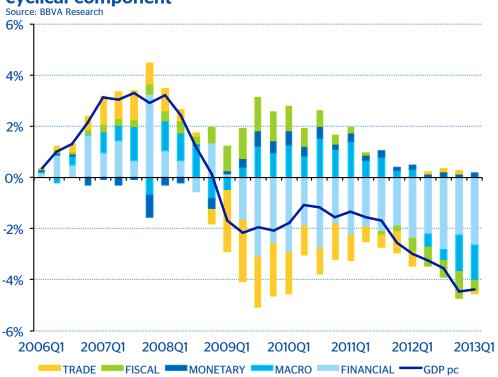
Source: BBVA Research





Structural shocks and their effects in EMU

Decomposition of GDP per working-age population: cyclical component



2H2008 to 1H2011: (1) negative financial and international trade shocks, (2) fiscal expansion

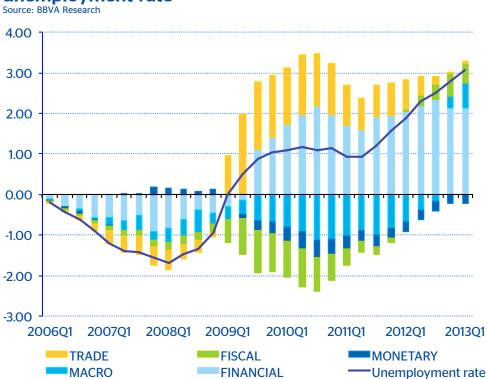
2H2011 to 1Q2013: (1) negative financial and fiscal shocks (2) positive international trade shock

Monetary policy has been accommodative to cyclical conditions



Structural shocks and their effects in EMU

Decomposition of the cyclical component of the unemployment rate



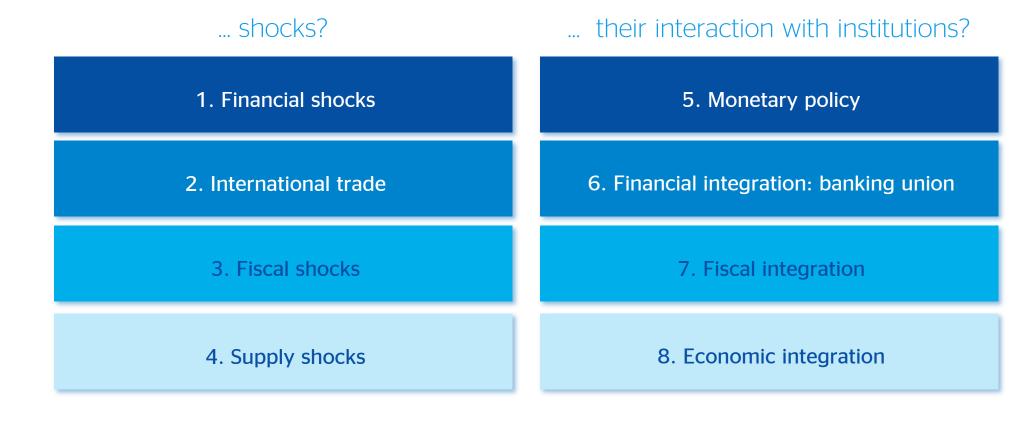
2H2008 to 1H2011: (1) negative financial and international trade shocks, (2) fiscal expansion

2H2011 to 1Q2013: (1) negative financial and fiscal shocks (2) positive international trade shock

Labour market shocks have contributed to a smaller increase of the unemployment rate



Differences between the USA and EMU caused by ...





... or aggregate imbalances?

Imbalances in EMU and the US before the sovereign crisis

% GDP)

Source: AMECO, Haver, IMF, national sources and BBVA Research

		EMU	US
Public deficit	2011	-4,4	-9,6
Public debt	2011	87,6	100,0
Households debt	2010	67,3	92,1
Firms debt	2010	119,1	74,6
Current account balance	2011	0,1	-3,1
Net external debt	2010	-7,2	-17,0

EMU had smaller aggregate imbalances than the US ...

... in public, private or external sectors ..

... but with a high internal heterogeneity ->



... but high internal heterogeneity across EMU countries

Macroeconomic imbalances in EMU (Six Pack), 2010

Source: BBVA Research, Eurostat and Ha	Belgium	Denmark	Germany	Ireland	Greece	Spain	France	Italy	Netherlands	Austria	Portugal	Finland	EMU
Current account	-0.6	3.9	5.9	-2.7	-12.1	-6.5	-1.7	-2.8	5.0	3.5	-11.2	2.1	-1.4
Net IIP	77.8	10.3	38.4	-90.9	-92.5	-89.5	-10.0	-23.9	28.0	-9.8	-107.5	9.9	-21.6
Real exchange rate	1.3	1.0	-3.0	-5.0	3.9	0.6	-1.4	-1.0	-1.0	-1.3	-2.4	0.3	-0.7
Export shares	-15.4	-15.3	-8.3	-12.8	-20.0	-11.6	-19.4	-19.0	-8.1	-14.8	-8.6	-18.7	-14.3
ULC	8.5	11.0	6.6	-2.3	12.8	3.3	7.2	7.8	7.4	8.9	5.1	12.3	7.4
Housing prices	0.4	0.6	-1.0	-10.5	-6.8	-4.3	3.6	-1.5	-2.9	-1.5	0.1	6.6	-1.4
Private credit	13.1	5.8	3.1	-4.5	-0.7	1.4	2.4	3.6	-0.7	6.4	3.3	6.8	3.3
Private debt	232.8	244.2	128.1	341.3	124.1	227.3	159.8	126.4	223.4	165.7	248.5	177.7	199.9
Public debt	96.2	43.4	83.2	92.5	144.9	61.0	82.3	118.4	62.9	71.8	93.4	48.3	83.2
Unemployment rate	7.7	5.6	7.5	10.6	9.9	16.5	9.0	7.6	3.8	4.3	10.4	7.7	8.4

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2. The role of shocks

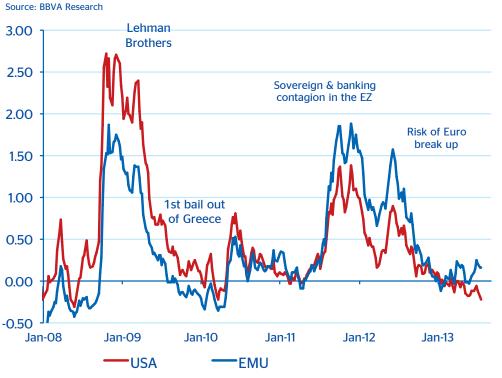
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1. Financial shocks

Financial tensions during the crisis

BBVA financial tensions index



2008-9: Financial shock much more intense in the USA than in EMU

2H2011 to 1H2012: sovereign debt crisis in EMU and contagion in the USA

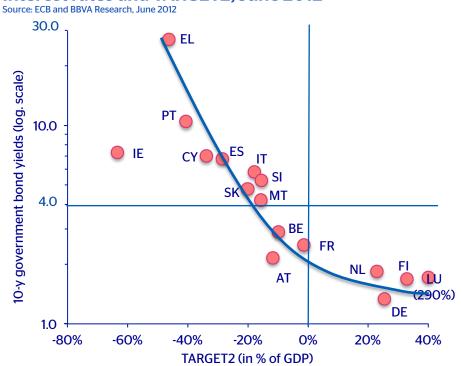
Now EMU has an opportunity window that should be opened up to ensure the economic recovery



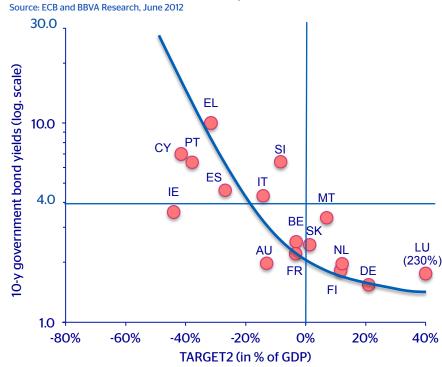
1. Financial shocks

Financial fragmentation still high

Interest rates and TARGET2, June 2012



Interest rates and TARGET2, June 2013



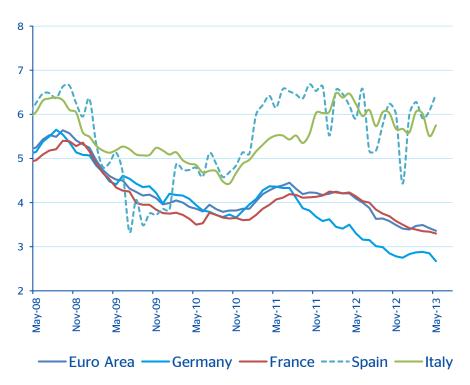


1. Financial shocks

Financial fragmentation still high

Interest rate of new loans to businesses

(Up to one million un euros, more than 5 years) Source: ECB



Financial tensions have declined significantly from August 2012 ...

... but financial fragmentation is still high across countries ...

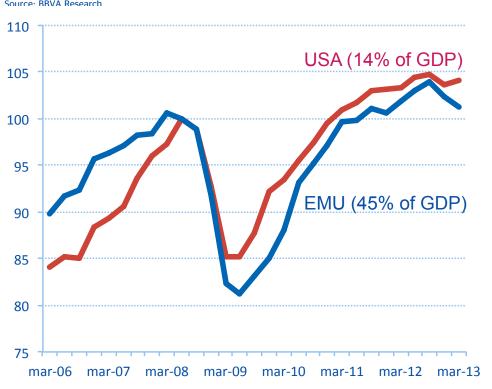
... creating very heterogeneous financial conditions for the recovery



2. External shocks

International trade has recovered above pre-crisis levels

USA and EMU: Exports levels (2Q2008=100)



The external shock in 2H2008 was huge: a fall of 15-20% in exports levels

The recovery of exports has been quite similar in EMU and the USA

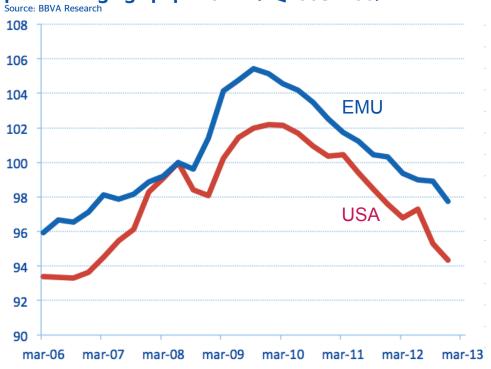
The contribution of exports to GDP are three times larger in EMU than in the USA



3. Fiscal shocks

Similar patterns of public consumption and investment ...

USA and EMU: Public consumption and investment per working-age population (2Q2008=100)



Despite the conventional wisdom, the patterns of public consumption and investment per working-age population have been quite similar ...

... first during the fiscal expansion and later during the fiscal consolidation (-8 pp)

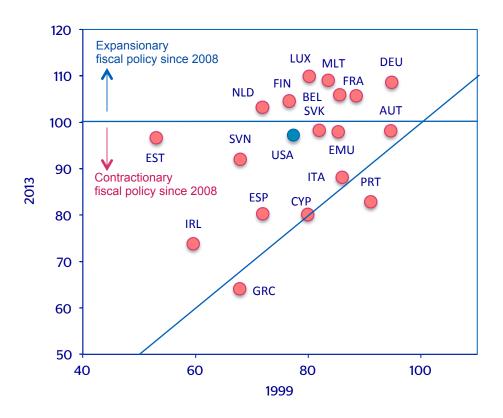
Both in EMU and the USA current levels are similar to those observed in 1Q2007



3. Fiscal shocks

... with a great heterogeneity across EMU countries

EMU: real public consumption and investment per working-age population in 1999 and 2013 (2008=100) Source: AMECO and BBVA Research



The response of real public consumption and investment has been very heterogeneous in EMU ...

... with some countries applying expansionary fiscal policies ...

... whereas others, with high growth of public expenditures from 1999 to 2008, have been implementing a contractionary fiscal policy

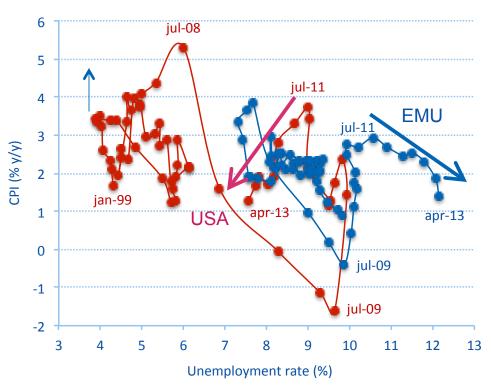


4. Supply shocks

Different unemployment and inflation dynamics

USA and EMU: Phillips curves

Source: BBVA Research



New empirical evidence on the Phillips curve suggests that is flatter today than in the past (IMF, 2013)

Although headline inflation is at similar levels in the USA and EMU, unemployment dynamics are different

Inflation and unemployment dynamics from 2011 are consistent with a negative demand shock in EMU and a positive supply shock in the USA



Preliminary conclusions about the role of shocks

1. Financial shocks: more intense in the USA than in EMU in 2008 and 1H2009

2. Similar international trade shocks

3. Similar fiscal shocks

4. Some evidence of positive supply shocks in the USA

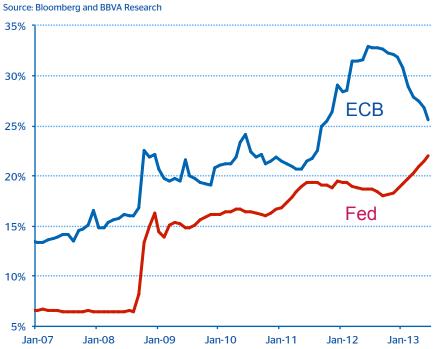
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5. Monetary policy Differences in size and timing, ...

Central bank balance sheet as % of GDP



Both the Fed and the ECB have increased their balance sheets in response to the crisis, but with some significant differences:

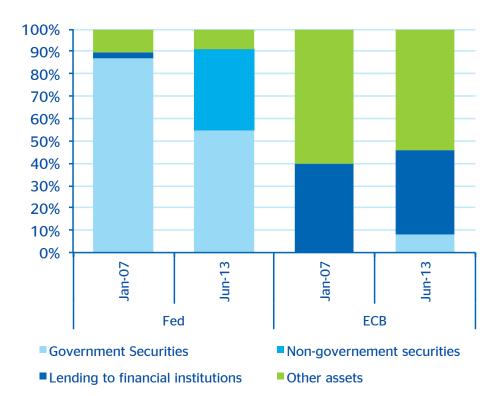
- 1. Size: the size in terms of GDP has increased by 4x in the Fed and 2x in the FCB
- 2. Timing: the Fed was more aggressive in 2008-9 whereas the ECB was more aggressive in response to the sovereign debt crisis



... differences in the composition of assets and maturities, ...

Composition of central banks balance sheets by type of asset

Source: Bloomberg and BBVA Research



3. The composition of central banks balance sheets is quite different:

The ECB has solved the liquidity problems of financial institutions

The Fed has been much more active buying public debt and affecting the slope of the yield curve



... and differences in the forward guidance

The dual mandate (inflation and activity) of the Fed makes forward guidance potentially more successful than in the case of the ECB

The Fed introduced two thresholds for forward guidance: inflation below 2.5% and unemployment rate above 6.5%

Despite its previous non-commitment policy, the ECB introduced a softer version of forward guidance in July, 2013: low interest rates for an extended period of time

Although it would be very informative, the ECB cannot introduce a threshold in terms of the unemployment rate



The ECB as a bridge towards a more genuine EMU

OMT program of sovereign bond purchases:

a sizeable "announcement effect"

- Only after official request of support to ESM
- Conditionality required
- Unlimited purchases of sovereign in secondary markets;
- 1-3 year bonds;
- Possibility of ESM to buy in primary market
- Designed to avoid countries losing market access
- ESM renounces to preference status



The ECB as a bridge towards a more genuine EMU

Despite its limitations (objectives and no mutualizaton of public and private debt), the ECB has been the most efficient European institution, avoiding the break up of euro and the collapse of some peripheral economies

Rate cuts to 0.5% and extension of full allotment until mid-2014. The economic impact of the rate cut is presumably limited

Downward bias on interest rates, including the possibility of negative deposit rate

Coordinated action with EIB and EC to support credit to SMEs and new collateral discounts for ABS to ease lending in EMU periphery



The ECB as a bridge towards a more genuine EMU

Fiscal union



The solution has benefits but also costs

Problem 1: How to distribute the solution costs in the short term between the members?

Problem 2: How to design a time-consistent solution and the conditions to carry it out?*

See Andrés and Doménech (2012b)

run



6. Financial integration Banking union (I): the benefits

Banking union helps breaking the loop between banking and sovereign risk

Single Supervisory Mechanism (SSM) reduces banking fragmentation and restores interbank market

The Single Resolution Mechanism (SRM) with participation of the private sector increases incentives to mutualize part of resolution funds

Convergence of financing costs and evolution towards trans-european banks



6. Financial integration

Banking union (II): the initial agenda

Pillar IV Pillar III Pillar II Single DGS (EZ) **Single Resolution** Mechanism (EZ) Single No details Pillar I Supervisory Mechanism (EZ) ESM Recapitalization **Single Rulebook** (operational framework): (EU 27) AOR in late 2013 June 2013 ECB direct supervision of COM proposal of a SRM: CRDIV: Approved by EP, \approx 137 significant banks June 2013 pending of Council since May-June 2014 adoption DE two-step proposal: ECB may decide to (i) Network of national BRRD: EC June 2013 and intervene any credit RAs + ESM as backstop; Parliament in October institution ii) Changing treaties and SRM 2013 2013-14 2018?



6. Financial integration

Banking union (III): the state of the play

The problem lies in the transition: single supervision with national resolution funds

The legal basis is weak. Eventually, a reform of the Treaty may be needed

The Assets Quality Review should restore confidence on the European banking system, but this may require a sufficiently big backstop

The roadmap shows that the process advances towards a Banking Union, but other changes are needed to decoupling sovereign and banking risks



Fiscal union has been delayed

State of the play

At the December summit, all focus on banking union. Progress towards a fiscal union has been delayed

The **Treaty on Stability** and the **Six Pack** appear to be sufficient for now

The key would be an agreement between Germany (accept eurobonds) and France (accept additional EU control of national budgets)

Options for eurobonds

Neither necessary nor sufficient, but convenient as insurance mechanism

- 1. Blue/red bonds (Delpla and Von Weizsäcker, 2011)
- 2. Eurobills (mutualize only part of short-term debt)
- 3. Debt Redemption Fund (Schmidt and Weigert, 2013): Temporary insurance of debt over 60% of GDP



Six Pack: reinforcing the SGP with macro surveillance

Application

- Approved in December 2011 Applies to EU27, with some specifics for eurozone on sanctions

Fiscal side: Strengthening the SGP

Reinforcing the Excessive Deficit Procedure (EDP):

- It defines what is a "**significant deviation**" of budget balance from medium-term objective or its adjustment towards it
- **Launches an EDP** when debt ratio does not diminish towards 60% at a
- satisfactory pace (not only when deficit is above 3% as was the case so far)

 Sanctions by the Commission adopted by the Council unless a qualified majority (QM) of countries are against it. Until now a QM was needed to approve sanctions

Other macroeconomic imbalances

- **Macroeconomic Imbalance Procedure**: Extends surveillance to other imbalances of the private sector and the external accounts
- **European Semester**: The aim is to identify imbalances earlier on (roughly from January to June) to end up with recommendations on budget and structural reforms to be incorporated in budgetary process in the fall



Six Pack: reinforcing the SGP with macro surveillance

External	Current account balance (% GDP, 3-year moving avg)	-4% to +6%
imbalances	Net international investment position (% GDP)	> -35%
	Export market shares (5 year % change)	>-6%
Competitiveness	Nominal unit labour cost in value (3 year % change)	<9%
	Real effective exchange rate, CPI based (3 year % change)	+/- 5%
Private sector	Private sector debt (% GDP)	<160%
imbalances	Private sector credit flow (% GDP)	<15%
	Real house prices, consumption deflator based (growth)	<6%
Other	General government sector debt (% GDP)	<60%
	Unemployment rate (3 year moving average)	<10%



In the meantime, fiscal consolidation at a slower pace

Deficit revision and fiscal consolidation



Fiscal adjustment focus on the structural deficit, instead of the nominal deficit

Hence, no further measures to offset fiscal slippages due to cyclical factors

Lower fiscal adjustment in the eurozone in 2013 (0,6% GDP after 1.3% in 2012)



8. Economic integration

Heterogeneity of structural determinants of growth ...

Structural factors in developed economies, 2010

Source: IMF and BBVA Research

		al Marke onomies		Coordinated Market Economies						Mixed market Economies				Avge.			
Medium Term	UK	USA	IRL	GER	FRA	NLD	BEL	AUT	FIN	DEN	SWE	JAP	SPA	ITA	POR	GRE	
Labour market	1	1	1	2	3	2	2	2	1	1	2	1	3	3	3	3	1.9
Corporate regulations	1	1	1	2	2	1	3	2	2	1	1	2	3	2	2	3	1.8
Network regulations	1	1	3	1	2	1	1	1	2	1	1	2	1	2	2	3	1.6
Retail regulations	1	1	1	1	2	1	3	3	2	2	1	1	2	2	2	3	1.8
Professional services reg.	1	1	1	3	2	1	2	2	1	1	1	1	2	3	2	3	1.7
Long term Institutions and contracts	1	2	2	1	2	1	2	1	1	1	2	2	2	3	3	3	1.8
Human capital	2	2	1	2	2	1	1	2	1	1	1	1	3	3	3	3	1.8
Infraestructure	1	1	3	1	1	1	2	2	2	1	1	1	1	3	2	3	1.6
Innovation	1	1	2	1	1	1	1	2	2	1	1	1	3	2	3	3	1.6
Average	1.1	1.3	1.7	1.6	1.9	1.1	1.9	1.9	1.6	1.1	1.2	1.3	2.2	2.6	2.4	3.0	1.7

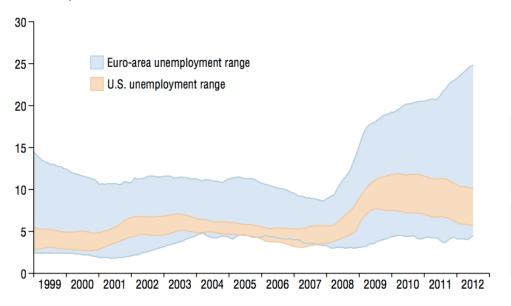


8. Economic integration

... and heterogeneity in unemployment rates

Regional variation in unemployment rates

Source: M. Wynne and J. Koech (2012)



Differences in structural determinants not only result in different GDP per capita ...

... but also in huge differences in unemployment rates across EMU countries ...

The benefits of EMU should go beyond banking and fiscal union: economic convergence

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Conclusions

- Aggregate imbalances and shocks were slightly better in EMU and the USA in 2008 and 2009
- The sovereign debt crisis in EMU was an endogenous shock resulting from European institutions that were not well designed to deal with very heterogeneous internal imbalances and their effects on growth and employment
- Sooner better than later, decoupling sovereign and banking risks requires some sort of debt mutualization (e.g., public debt redemption fund) and a complete banking union
- Structural reforms are needed (1) as an exchange for debt mutualization and (2) to promote economic convergence
- It is crucial to take advantage of the current window of opportunity to ensure economic growth and employment creation, through the implementation of appropriate structural reforms and the improvement of European institutions



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