



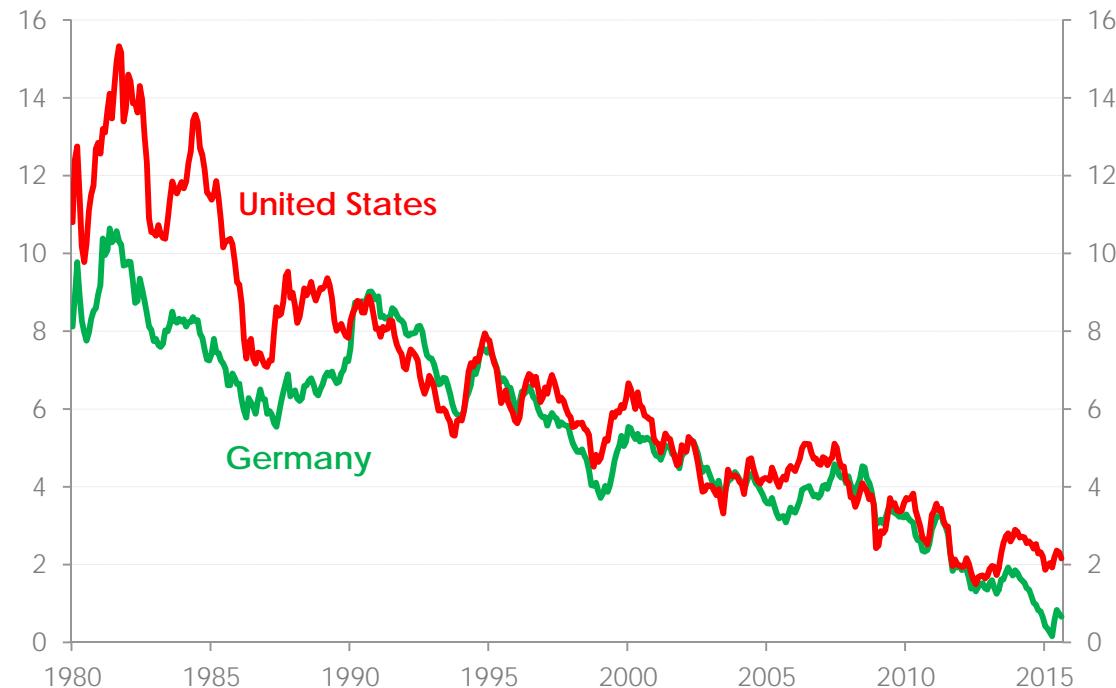
Peter Praet

The low interest rate environment in the euro area

Bussum, 10 September 2015

Long-term interest rates

Long-term government bond yields
10-year yields; % p.a.



Source: ECB.

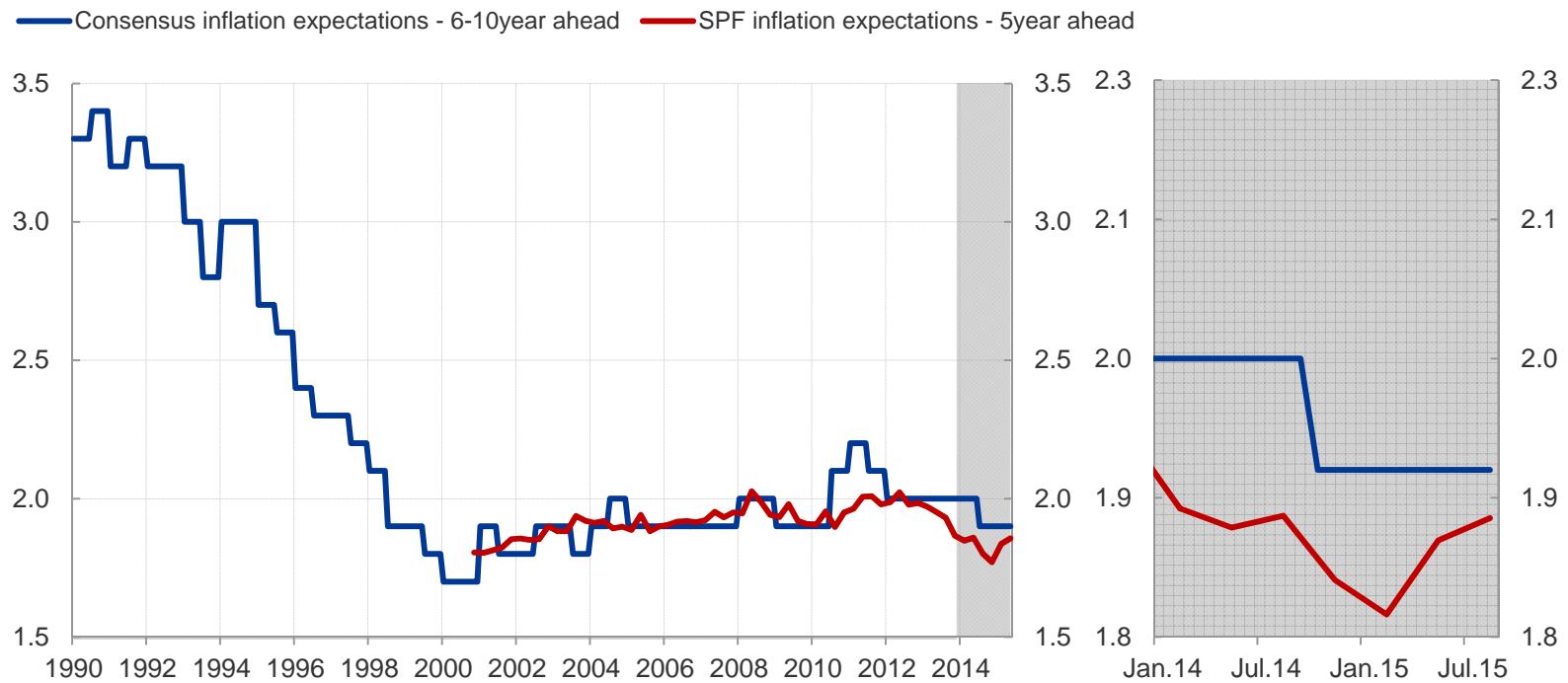
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Inflation expectations

Long-term inflation expectations
% p.a.

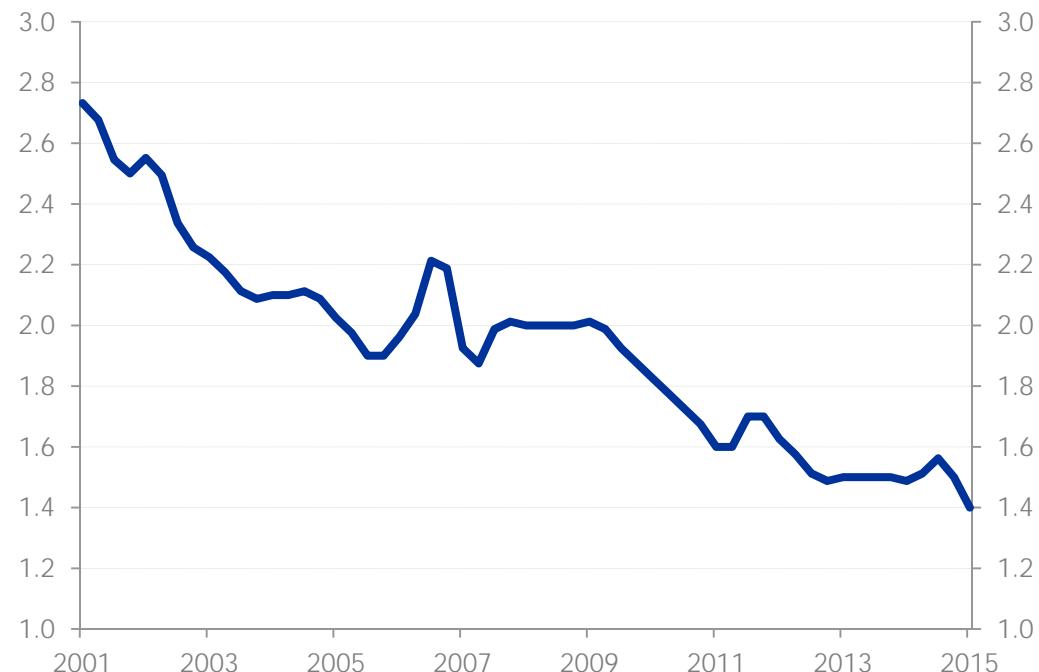


Sources: Consensus Economics and Survey of Professional Forecasters.

Note: Consensus expectations are in monthly frequency until Aug-2015 and SPF expectations are in quarterly frequency until Q3 2015.

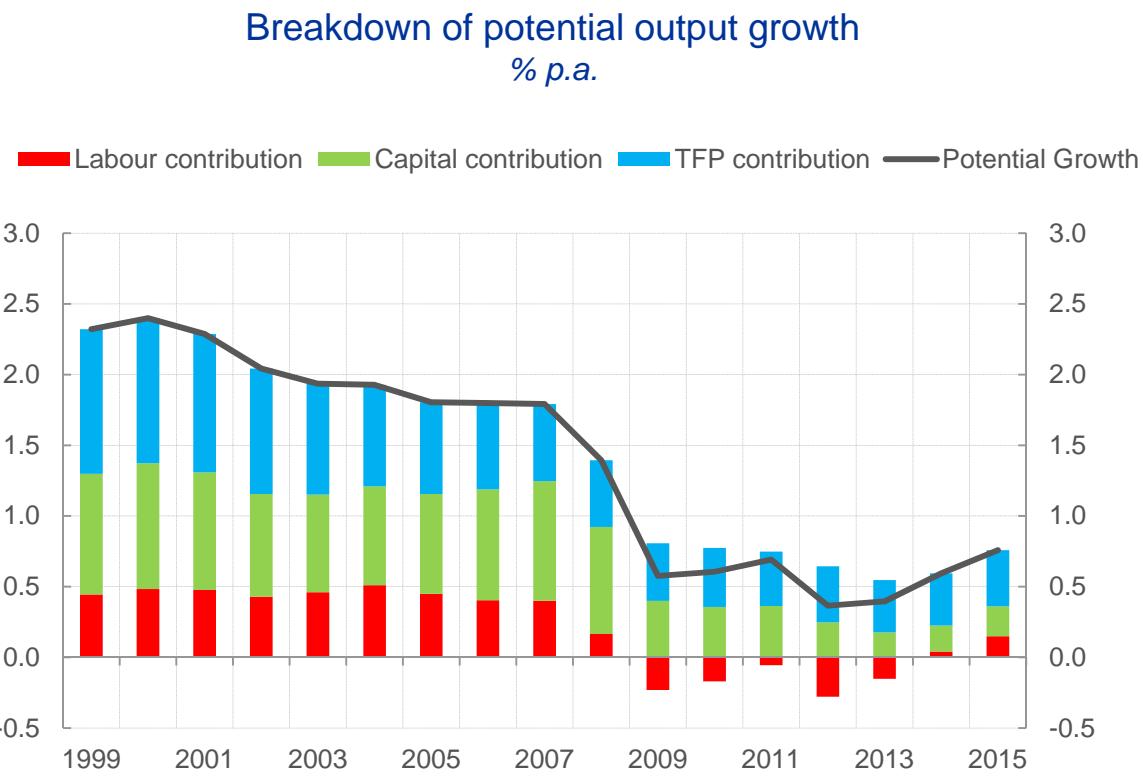
Growth expectations

5 years ahead growth expectations for the euro area
% p.a.



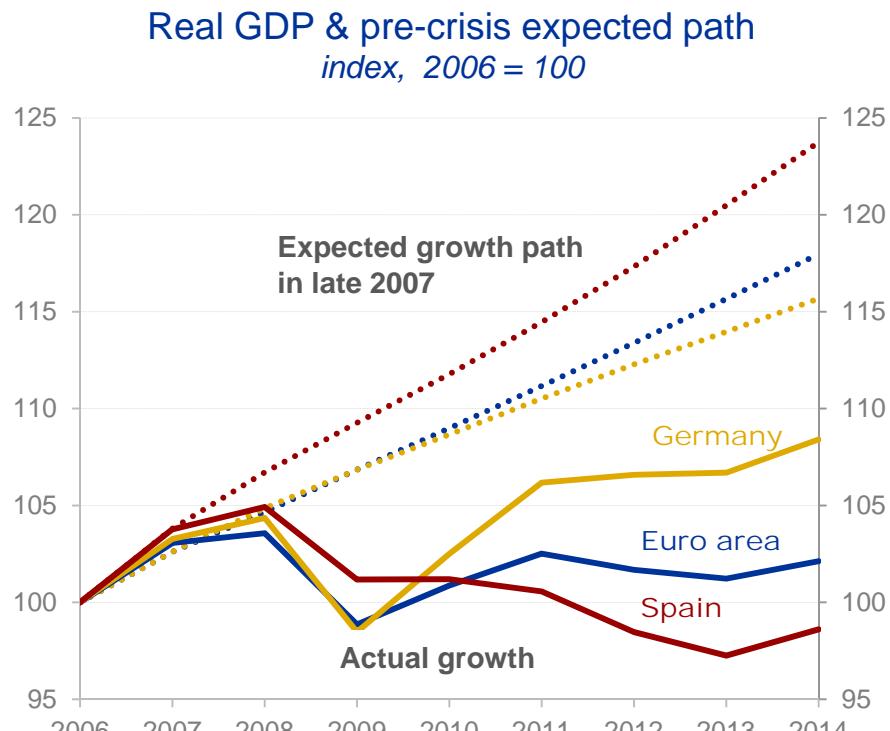
Source: Consensus.

Drivers of potential growth slowdown



Source: European Commission Spring 2015 forecast.

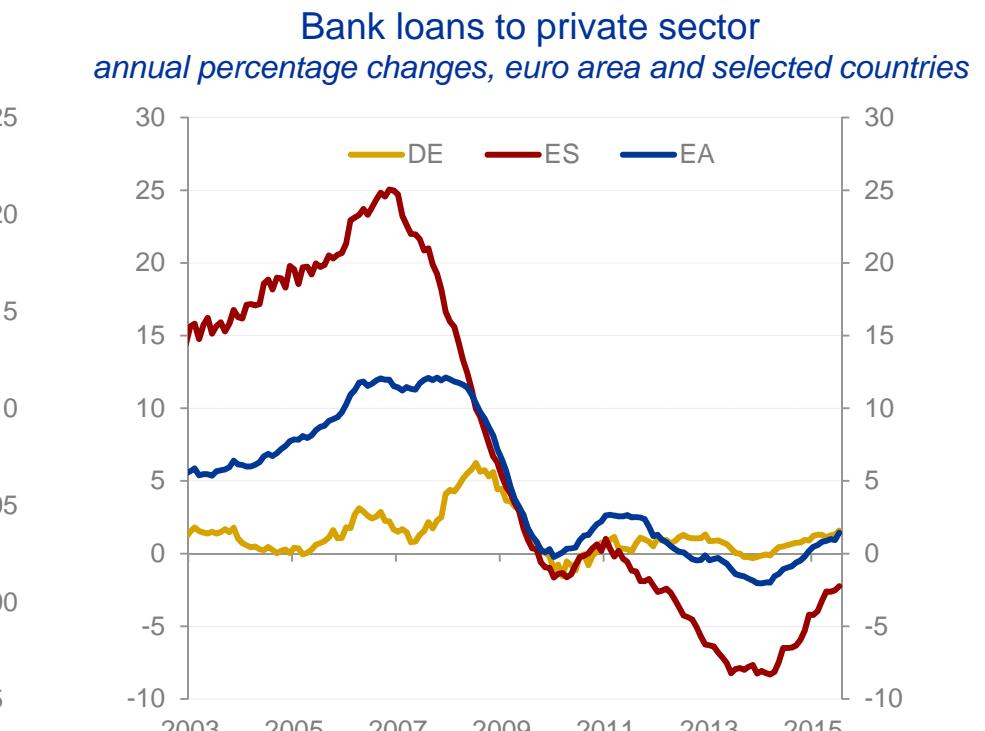
Conditions for a balance sheet recession



Source: Consensus and ECB calculations.

Note: Expected growth path as in Consensus October 2007.

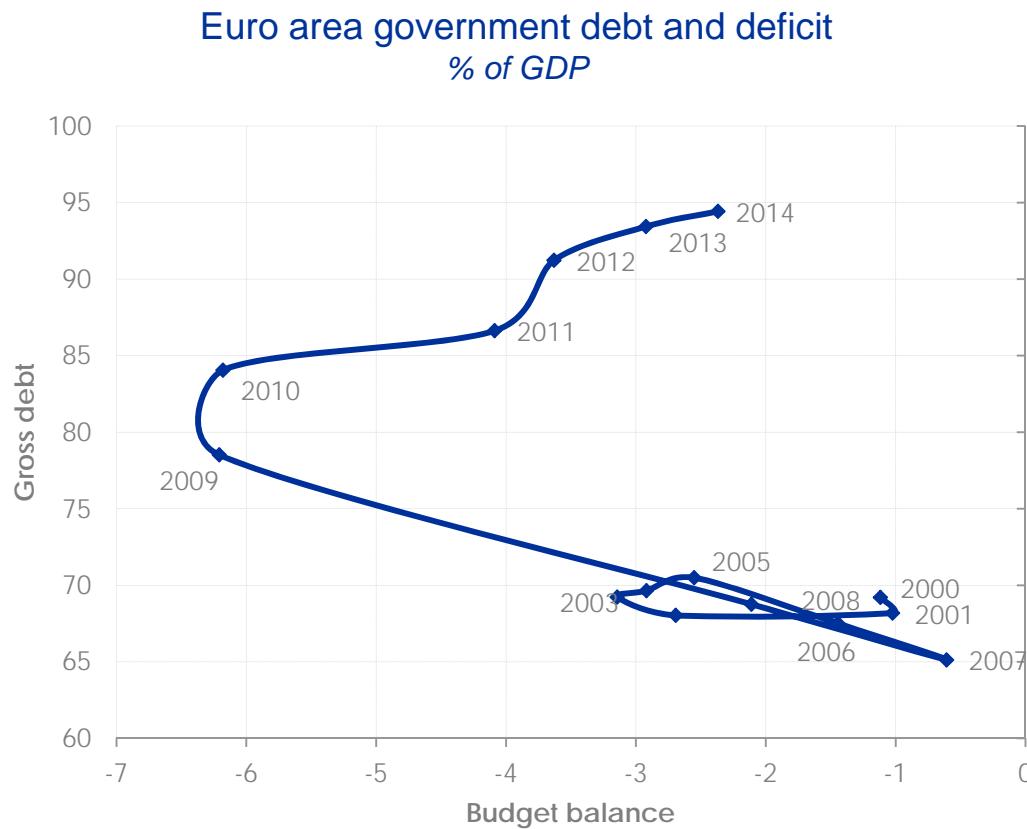
Latest observation: February 2015.



Source: ECB.

Latest observation: June 2015.

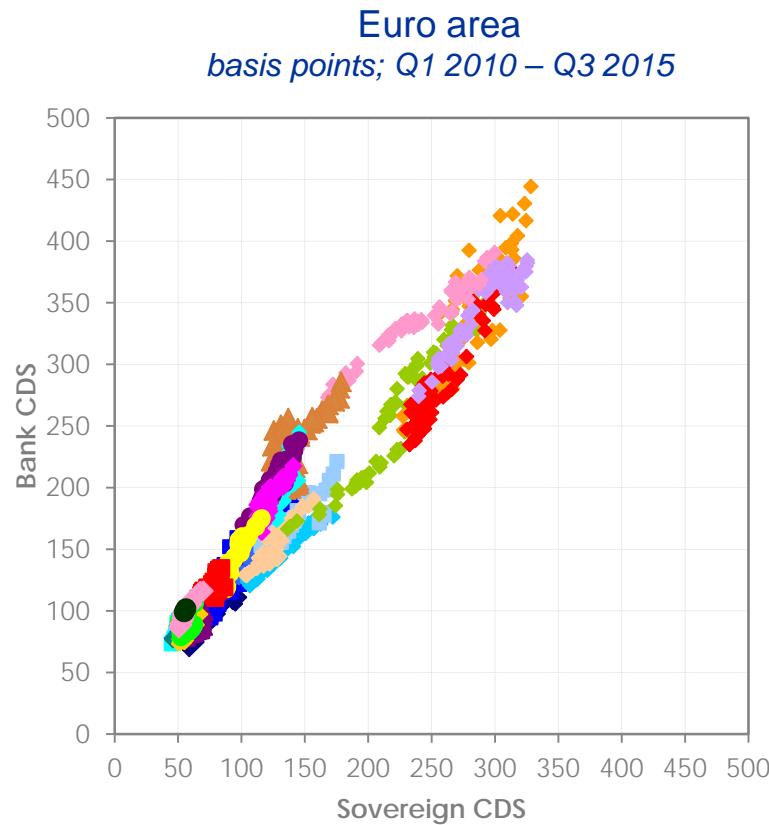
Public finances



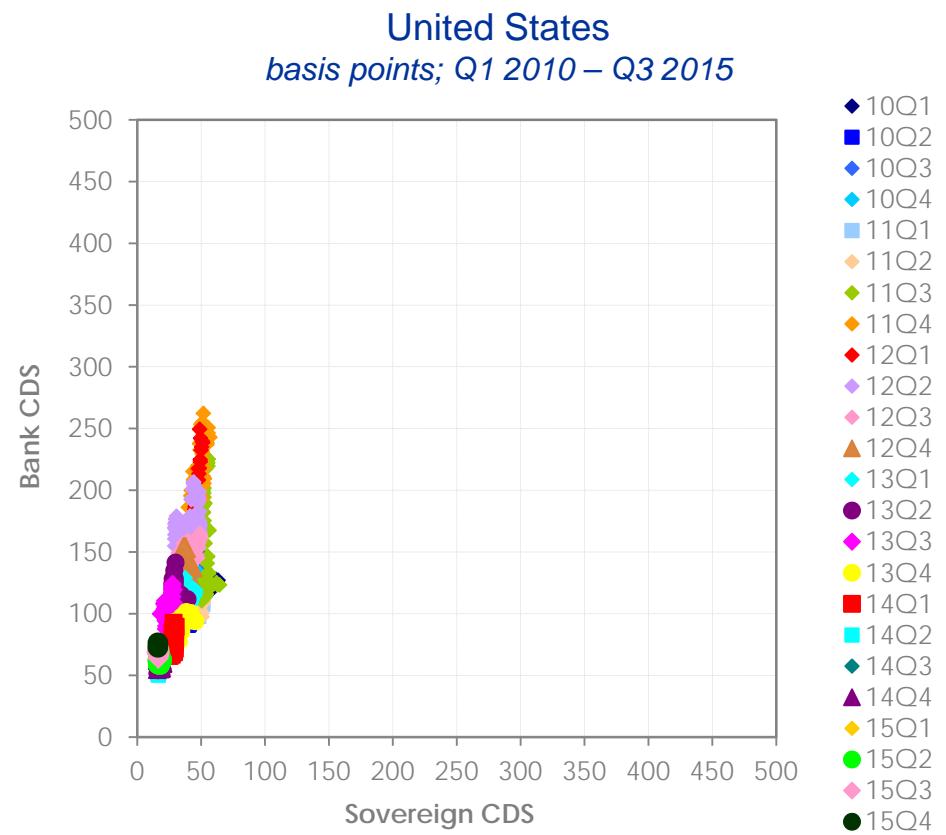
Sources: European Commission's spring 2015 economic forecast, ESA95 data before 2006.

Note: Budget balance excludes UMTS proceeds.

Banks - sovereign nexus



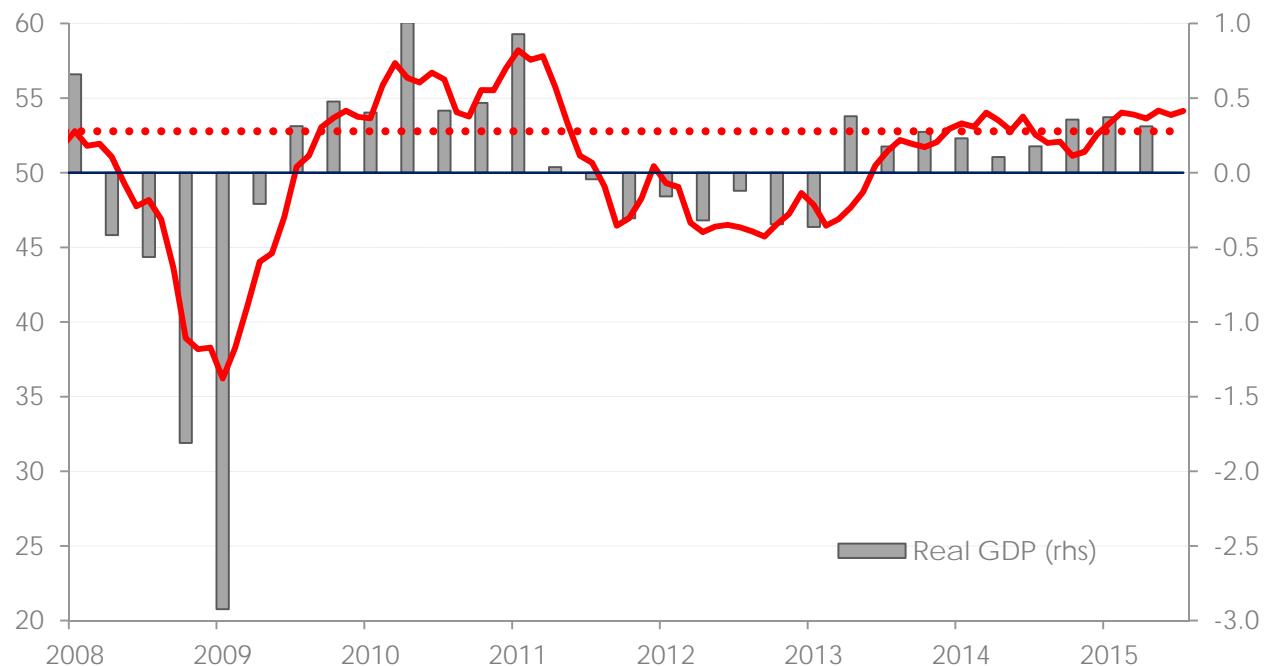
Sources: Thomson Reuters and ECB calculations.
Latest observation: 1 September 2015.
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Slight slowdown in the pace of recovery

Real GDP growth and PMI Composite output

quarter-on-quarter percentage growth; diffusion index

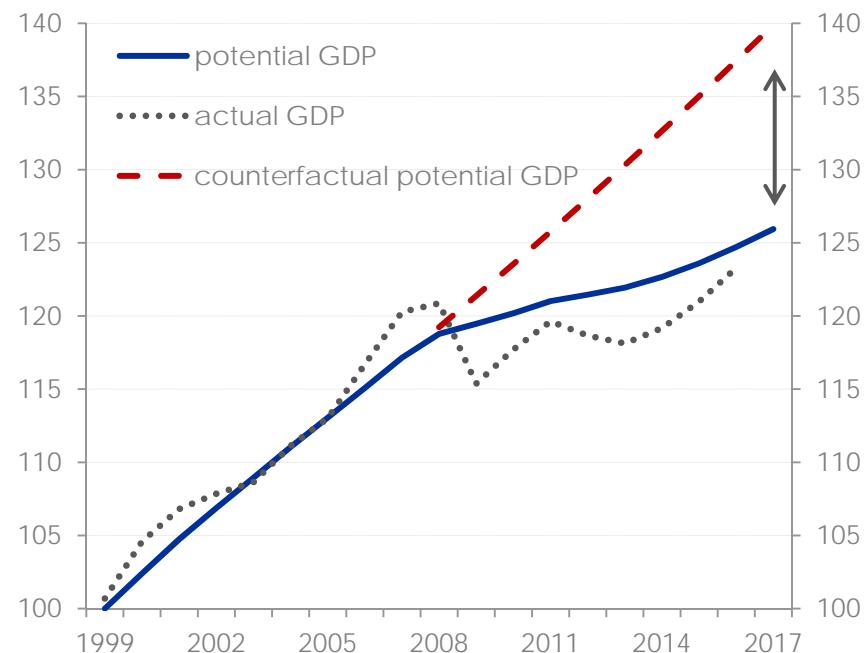


Sources: Eurostat, Markit and ECB staff calculations.

Latest observation: 2015Q2 for GDP growth, August 2015 for PMI.

Declining expectations of long-term growth

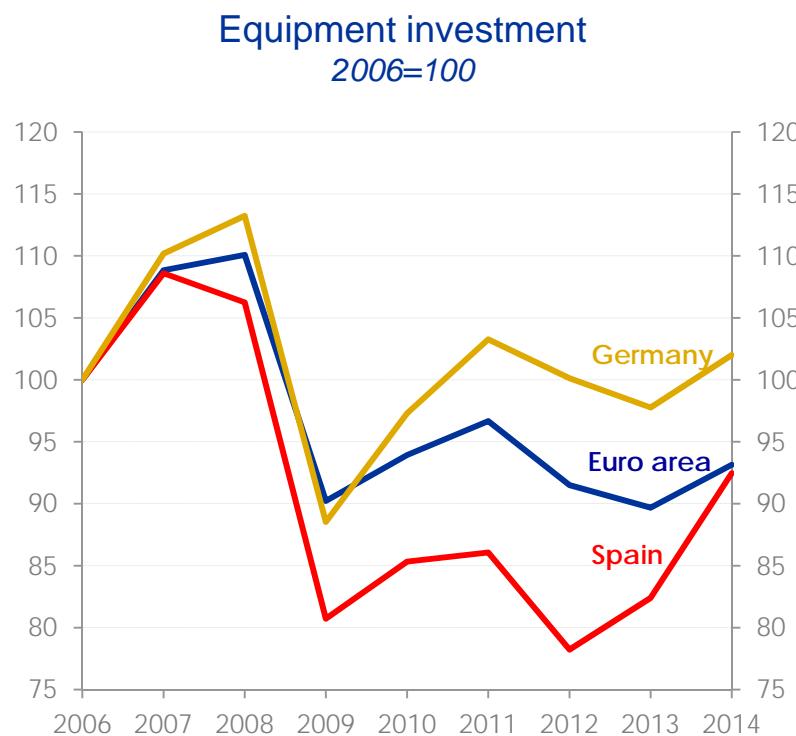
Potential output reduction due to the crisis - euro area
index, potential GDP in 1999=100



Source: European Commission Spring 2015 forecast and Output Gap Working Group.

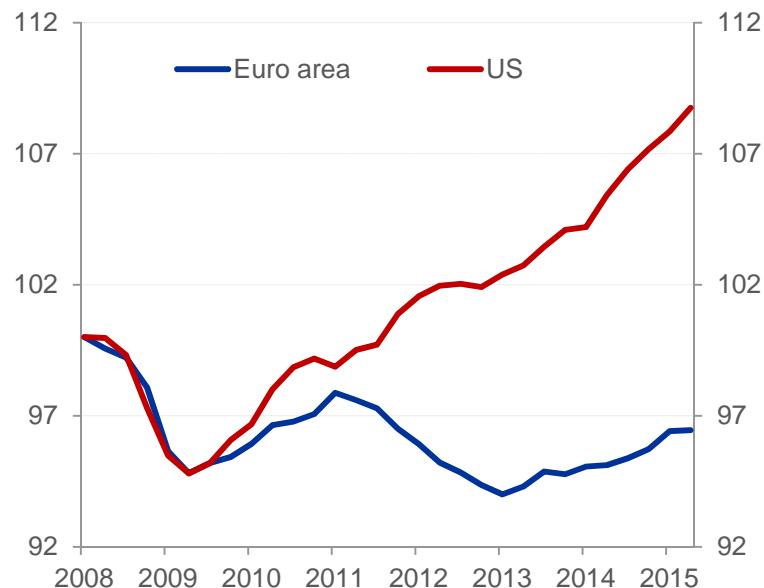
Note: Counterfactual potential GDP assumes that potential GDP continued to grow at its 2007 growth rate, i.e. it reflects the observation that potential growth has already slowed down before the crisis.

Investment and labour markets



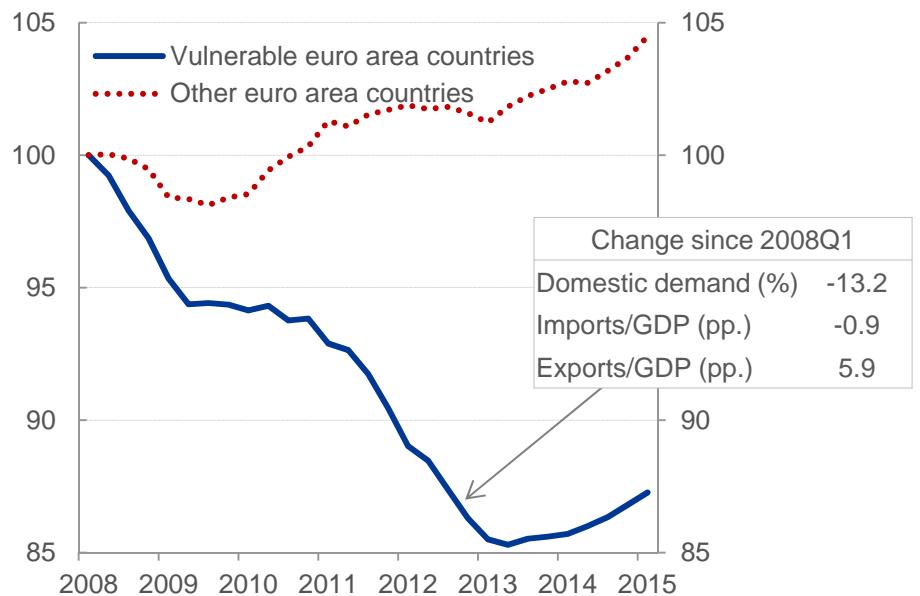
Real domestic demand

Real domestic demand
2008q1 = 100



Sources: Bureau of Economic Analysis and Eurostat.

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Sources: Eurostat and ECB calculations.

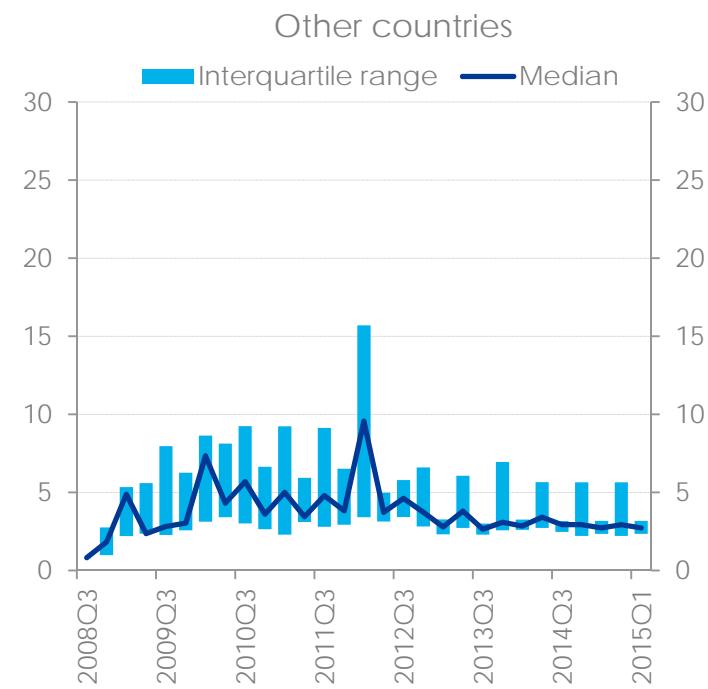
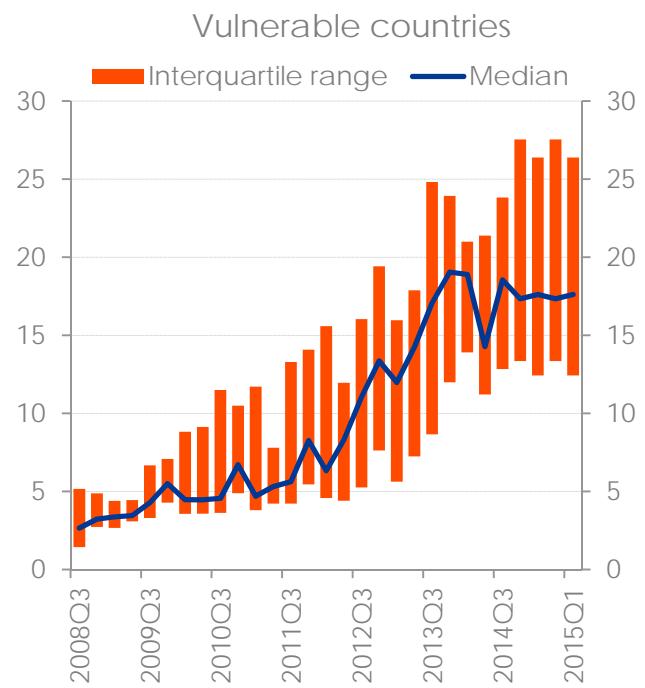
Note: "Vulnerable euro area countries" refers to CY, GR, IE, ES, IT, PT & SI.

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Non-performing loans

Impaired loans of euro area banks
percentages of gross loans



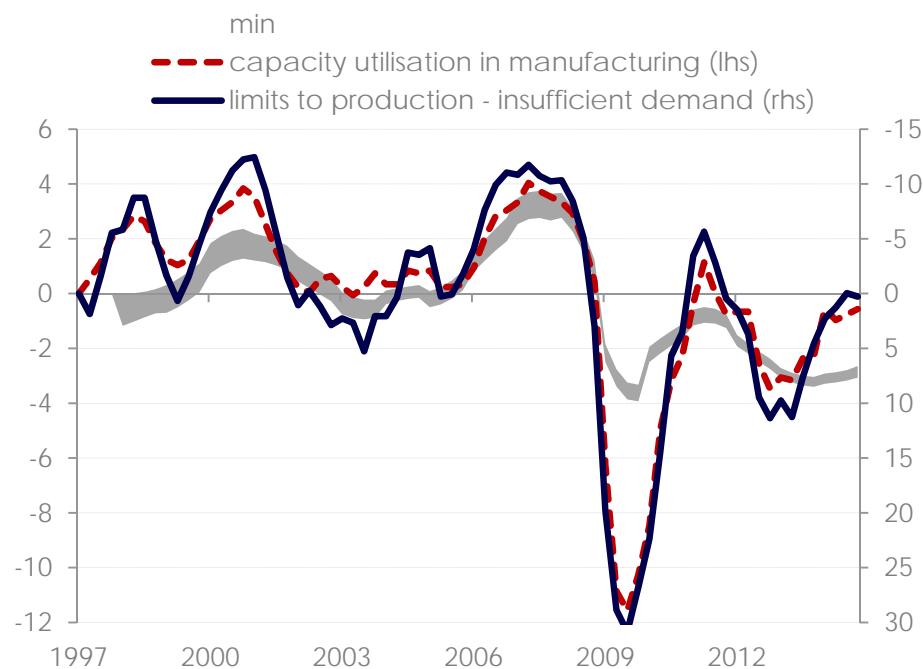
Sources: SNL and ECB calculations.

Notes: Based on an unbalanced sample of 32 euro area banks for vulnerable countries and 25 euro area banks for less vulnerable countries. The charts represent ratios of gross impaired customer and bank loans over gross loans.

The degree of slack in the economy

Output gap (INIs) and capacity utilisation

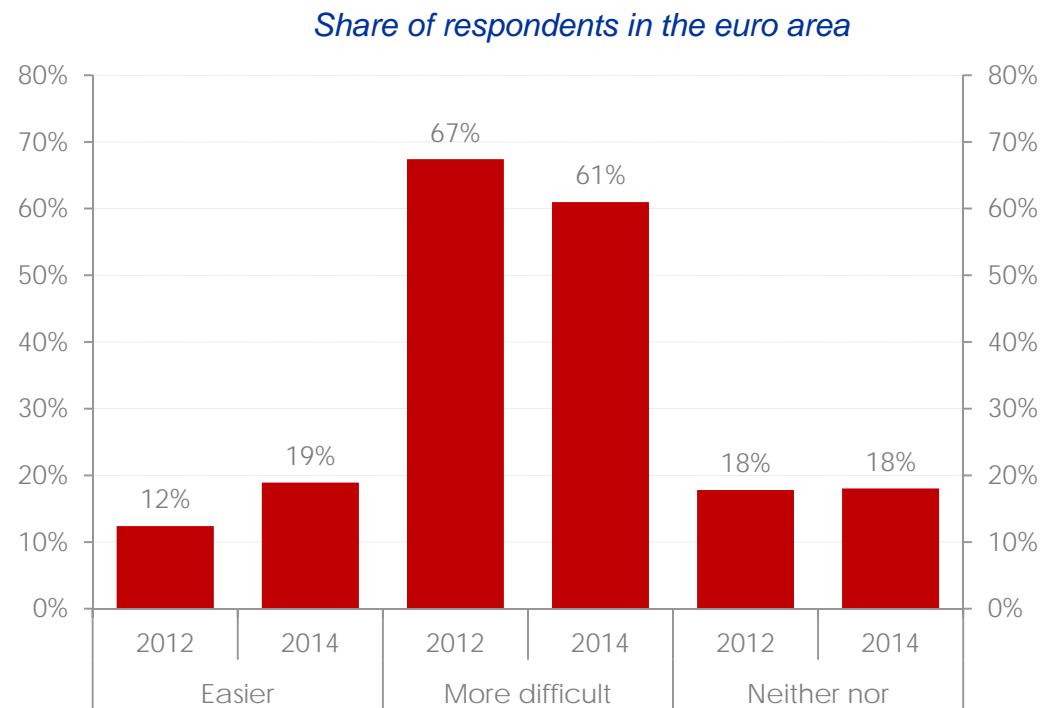
Output gap: in percent of potential output; survey indicators: deviation of balances from their historical mean



Sources: European Commission, IMF and OECD.

Pessimism over long-term outlook

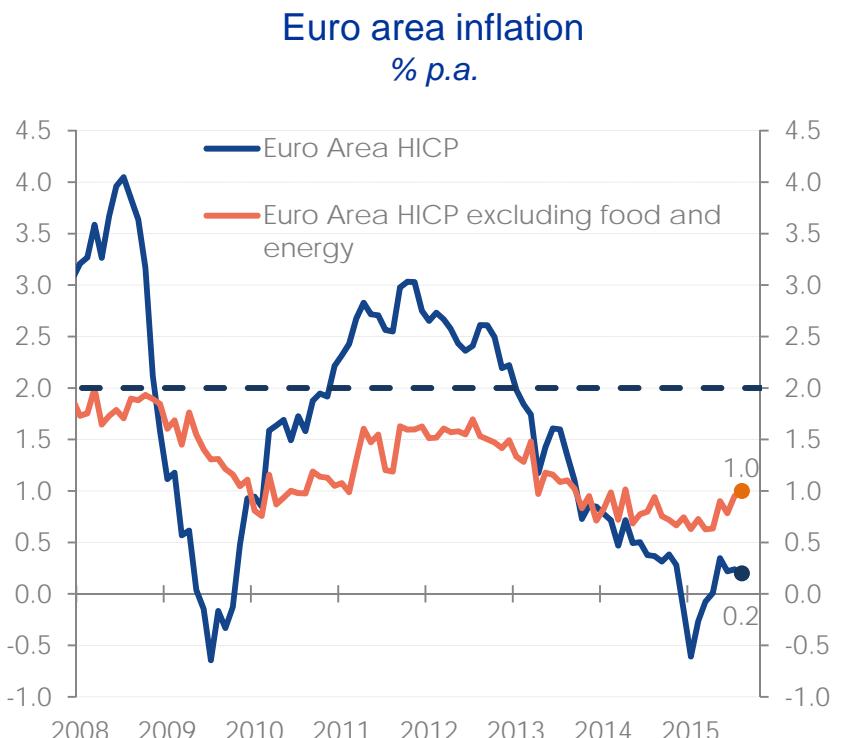
“Generally speaking, do you think that the life of those in the EU who are children today will be easier, more difficult, or about the same as the life of those of your own generation?”



Source: Eurobarometer 's 70.1, 78.2 and 81.1.

Note: Excludes response “Don't know”.

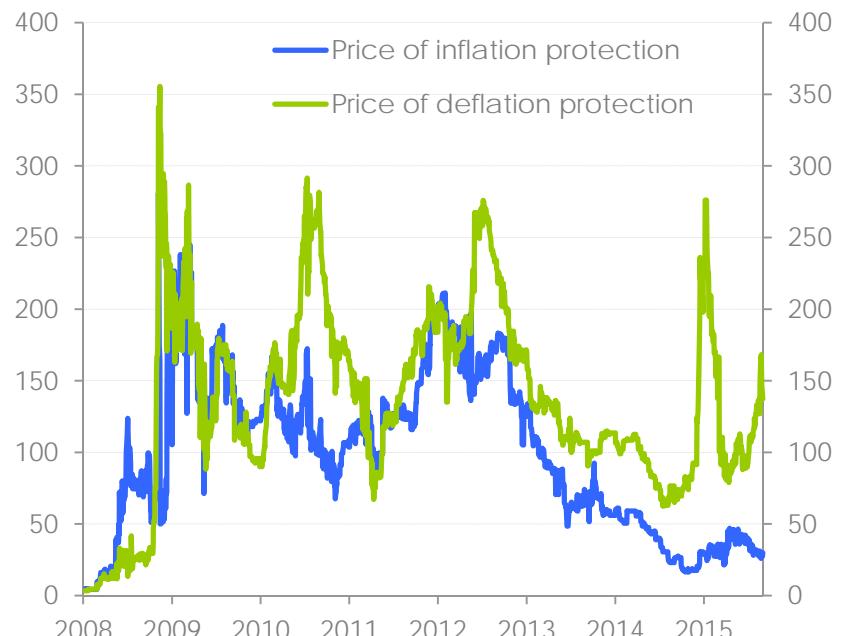
Anchoring of inflation expectations



Source: Eurostat.
Latest observation: August 2015 (flash estimates).

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**Price of inflation and deflation protection
basis points per annum**



Source: Bloomberg.
Note: Price of 0% floor and 4% cap options (year-on-year) on euro area HICP inflation – 5Y maturity. Developments should be interpreted with caution due to limited market liquidity. Latest observation: 2 September 2015.

Monetary policy tools

Standard measures

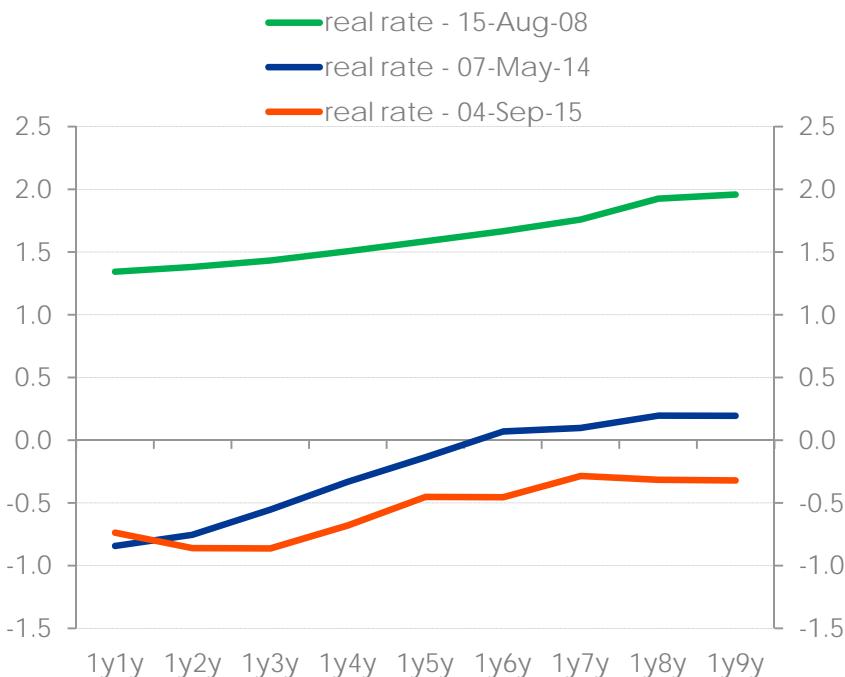
- Interest rates (Sept. 14: zero lower-bound)

Non-standard measures

- Liquidity and funding measures
 - Fixed-rate tender procedure with full allotment
 - Extension of the maturity of refinancing operations (3y LTRO in Nov. 11)
 - Expansion of the collateral pool
- Outright purchases in malfunctioning market segments
 - Securities Markets Programme
 - Covered Bond Purchase Programmes
 - Outright Monetary Transactions (Sept. 12)
- Forward guidance (July 13)
- Credit easing and asset purchases (June 14 to January 15)
 - Targeted Long-Term Refinancing Operations (TLTRO)
 - ABS Purchase Programme
 - Covered Bond Purchase Programme
 - Expanded Asset Purchase Programme

Shallow yield curve and declining cost of borrowing

Term structure of forward real rates
% p.a.

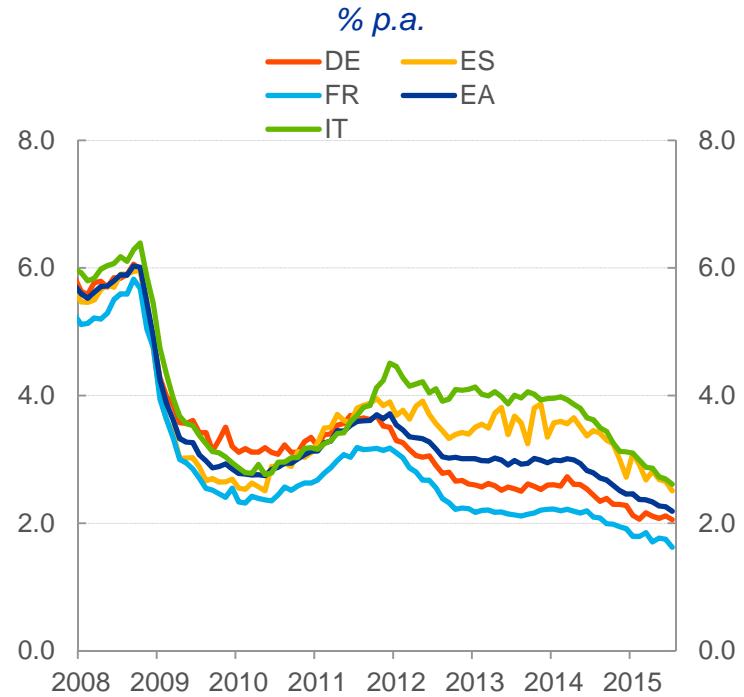


Source: ECB.

Latest observation: 04 September 2015.

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Composite indicator of the nominal cost of bank borrowing for NFCs
% p.a.



Source: ECB.

Note: The indicator for the total cost of bank borrowing is calculated by aggregating short- and long-term rates using a 24-month moving average of new business volumes. Latest observation: July 2015.

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