

**Peter Praet** 

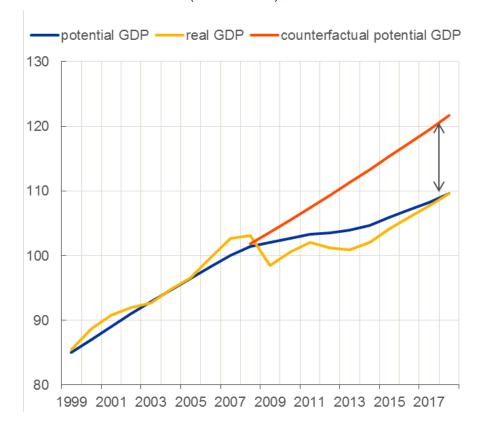
Member of the Executive Board of the ECB

# Heidelberg Symposium

**University of Heidelberg** 

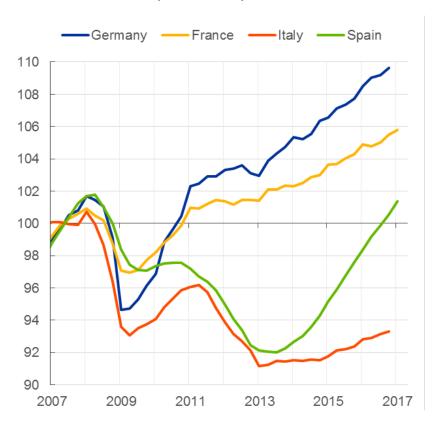
# Euro area actual and counterfactual real GDP growth path

(2007 = 100)



# Real GDP growth path in selected euro area countries

(2007 = 100)



Sources: European Commission, ECB calculations.

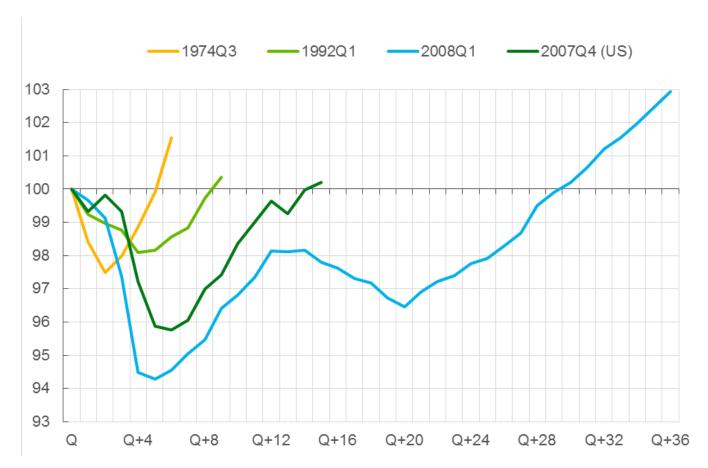
Note: Counterfactual GDP assumes that potential GDP continued to

grow at its 2007 growth rate. Latest observation: 2017Q1. Sources: Eurostat, ECB calculations.

Latest observation: 2017Q1 (France, Spain), 2016Q4 (Germany, Italy)

## Euro area real GDP over various cycles and compared with the current US cycle

(index: business cycle peak = Q = 100)



Sources: Eurostat, United States Census Bureau and ECB calculations. Latest observation: 2017Q1.

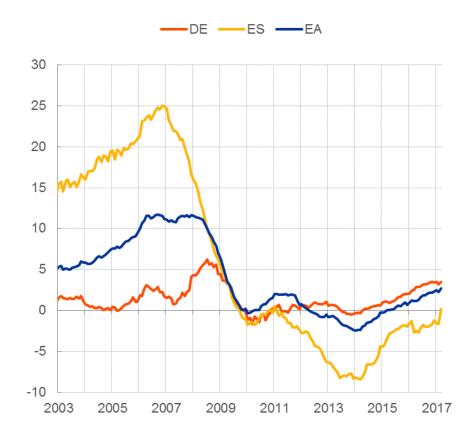
# 6-10 years ahead growth expectations for the euro area

(annual % change)

## 2.4 2.2 2.0 1.8 1.6 1.4 1.2 1.0 2003 2005 2007 2009 2011 2013 2015 2017

## Bank loans to the private sector

(annual percentage changes)

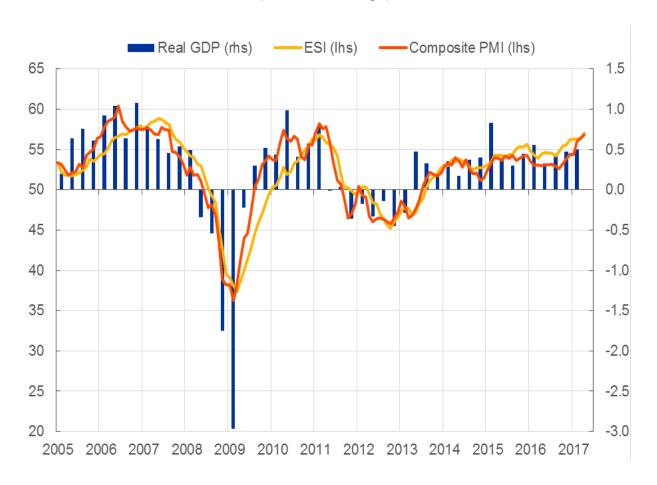


Source: Consensus Economics. Latest observation: April 2017.

Source: ECB. Latest observation: March 2017.

## **Euro area real GDP, composite PMI and ESI**

(annual % change)



Sources: Markit, DG-ECFIN and Eurostat. Note: The ESI and PMI are normalised.

Latest observations: 2017Q1 for GDP outcome, April 2017 for the ESI and the PMI.

# HICP inflation and HICP excluding food and energy

(annual percentage changes)

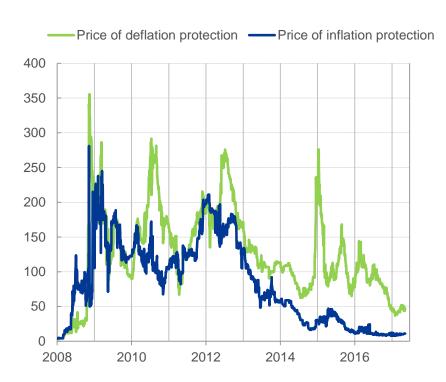
# HICP — HICP excluding food and energy 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 0.0 1999 2001 2003 2005 2007 2009 2011 2013 2015 2017

Source: Eurostat.

Latest observation: April 2017.

# Price of inflation and deflation protection

(% p.a.)



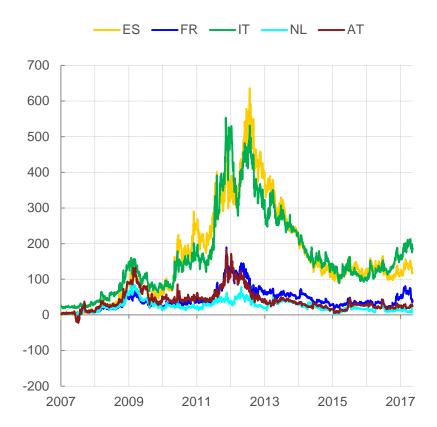
Source: Bloomberg.

Note: The price of inflation (deflation) protection refers to the price of a five-year year-on-year inflation option with a 4% cap (0% floor).

Latest observation: 10 May 2017.

## Sovereign spreads

(basis points)



Source: Reuters.

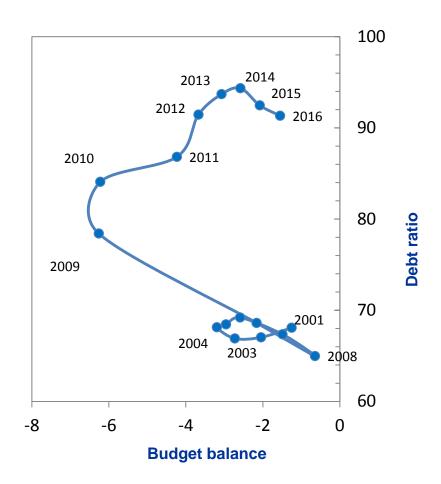
Note: 10-year sovereign bond yield spreads against German 10-year

sovereign bond yield.

Latest observation: 9 May 2017.

## Euro area government debt and deficit

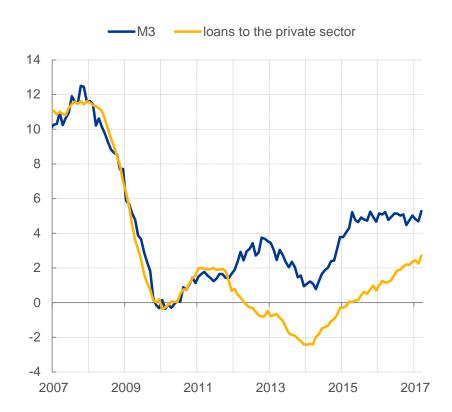
(percent of GDP)



Source: European Commission's spring 2017 economic forecast. Note: Budget balance excl. UMTS proceeds.

## M3 and loan growth

(annual percentage changes)

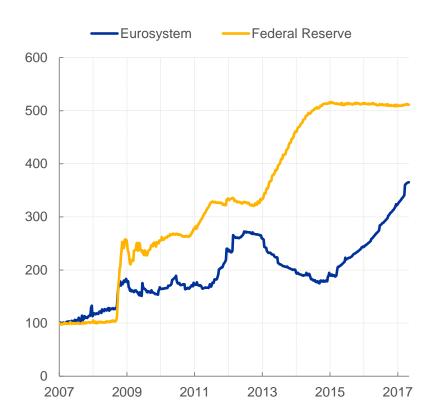


Source: ECB.

Latest observation: March 2017.

### **Central bank balance sheets**

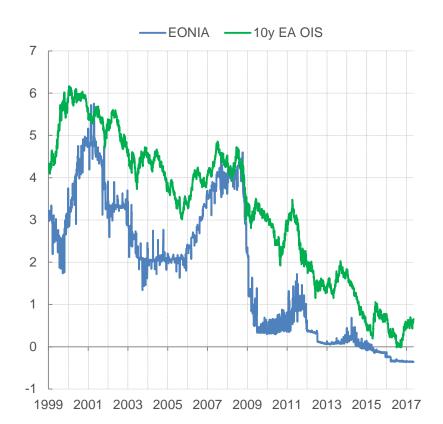
(Jan. 2007 = 100)



Sources: ECB, Federal Reserve. Latest observation: 5 May 2017.

## **EONIA** and 10-year OIS

(percentages per annum)



Sources: Reuters, ECB.

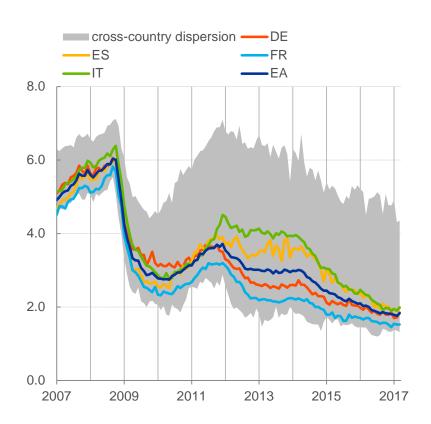
Note: 10-year swap rate against 6-month Euribor up to 2004; 10-year OIS

from 2005 onwards.

Latest observation: 9 May 2017.

## **Composite lending rates to NFCs**

(percent per annum)



Source: ECB.

Notes: 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. The cross-country dispersion displays the min and max range over a fixed sample of 12 euro area countries.

Latest observation: March 2017.

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## ECB monetary policy measures since June 2014

	Jun. 2014	Sep. 2014	Jan. 2015	Dec. 2015	Mar. 2016	Dec. 2016
Rate cuts	MRO: 0.15%: MLF: 0.40%; DRF: -0.10%	MRO: 0.05%: MLF: 0.30%; DRF: -0.20%		MRO: 0.05%: MLF: 0.30%; DRF: -0.30%	MRO: 0.00%: MLF: 0.25%; DRF: -0.40%	
TLTROs	Fixed rate (MRO) Max. maturity: Sep. 2018 Uptake depends on net lending Mandatory early repayment				Fixed rate at MRO or below if lending > benchmark (min. DFR) No mandatory early repayment	
Private asset purchases		Broad portfolio of simple & transparent ABS and CBs		APP recalibration I • Extension to Mar. 2017 • Reinvestment of principal payments	Purchase of inv grade NFC bonds with high pass-through to real economy	APP recalibration III  • €60bn monthly purchases until December 2017  • Min. remaining maturity for PSPP eligible securities decreased from 2y to 1y  • Purchases below DF rate allowed if necessary
Public asset purchases			Purchases in EA sov. debt markets €60bn monthly purchases, incl. ABSPP/CBPP3		APP recalibration II  • €80bn monthly purchases  • Higher issue share limit for certain issuers	