The low interest rate environment in the euro area

Geneva, 21 September 2015
Long-term interest rates

Long-term government bond yields

10-year yields; % p.a.

United States

Germany

Source: ECB.

2015-09-21 Geneva

www.ecb.europa.eu
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

Breakdown of potential output growth
% p.a.

Source: European Commission Spring 2015 forecast.
Conditions for a balance sheet recession

Real GDP & pre-crisis expected path
index, 2006 = 100

- Expected growth path in late 2007
- Actual growth

Source: Consensus and ECB calculations.
Note: Expected growth path as in Consensus October 2007.

Bank loans to private sector
annual percentage changes, euro area and selected countries

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.
Real GDP growth and PMI Composite output

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

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

Equipment investment

2006=100

Sources: European Commission and ECB calculations.
Note: 2014 partially based on forecasts. Euro area refers to euro area 12.

Unemployment rate

% of (extended) labor force

Sources: Labour Force Survey and ECB staff calculation.
Note: Discouraged workers are inactive people who are available but not searching a job. The extended labor force is the number of active persons extended with the number of discouraged workers.
Real domestic demand

Sources: Bureau of Economic Analysis and Eurostat.

Sources: Eurostat and ECB calculations.
Note: “Vulnerable euro area countries” refers to CY, GR, IE, ES, IT, PT & SI.
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?”

Share of respondents in the euro area

Source: Eurobarometer’s 70.1, 78.2 and 81.1.
Note: Excludes response “Don't know.”
Inflation and inflation expectations

Euro area inflation
% p.a.

Price of inflation and deflation protection
basis points per annum

Source: Eurostat.
Latest observation: August 2015

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

**EA: EONIA expectations based on the OIS yield curve**

% p.a.

- Min-max range since Nov 2013 GC
- Pre-APP (21 Jan 15)
- (16 Jul 15)
- Latest (17 Sep 15)
- (15 Jul 14)

**1y1y EUR and USD OIS**

% p.a.

Source: Bloomberg.

Sources: Reuters and ECB calculations.

Note: OIS = overnight index swap.
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.