

Some thoughts on monetary policy and normalization

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Inflation measures in the euro area



Euro area output gap and contributions

Contributions to euro area output gap



Euro area Germany France Spain Italy Other

Optimal inflation targeting with zero bound and QE (Orphanides-Wieland JJIE 2000)



Orphanides-Wieland JJIE 2000



FIG. 3. Optimal policy for the Marshallian K gap. The solid line shows the optimal policy with the zero bound and uncertainty regarding policy effectiveness for our baseline parameters: $r^* = 2$, $\pi^* = 1$, $\sigma_{\eta} = \sigma_{\epsilon} = 1$, and $\sigma_{\kappa} = 0.4$ (all in percent). The dash-dot lines illustrate the corresponding deterministic benchmarks as explained in the text.



FIG. 4. Optimal interest rate setting. The solid line shows the optimal policy for the federal funds rate with the zero bound and uncertainty regarding policy effectiveness corresponding to the optimal policy for the Marshallian K shown in Fig. 3. The dash-dot line illustrates the corresponding deterministic benchmark.

Central bank balance sheet expansion

Struktur der Aktiva



ECB Assets Bonds CBPP3, ABSPP, CSPP, PSPP MRO, (T)LTRO Gold and reserves Other

Policy rate versus Taylor-Rule



R-Star may have declined (but raises output gap)

Estimates for medium-run equilibrium interest rates and associated output gaps in Germany and the Eurozone, Michaelis and Wieland, Vox EU



Partially offsetting effects on Taylor rule recommendation



1 – Equation: $i = r^* + 0 + 0.5(000^*) + 0.5(y)$. is the prescribed MRO rate; it depends on the real equilibrium interest rate, r^* , on the current inflation rate, 0, in deviation from the central bank's target, 0*, and on the output gap, y. 2 – Interest rate on main re-financing operations (MRO), month-end of each quarter. 3 – It depends on the medium-run real equilibrium interest rate, r^* (two-sided), based on the Laubach-Williams (2003) method in the version which was developed by Garnier and Wilhelmsen (2009) for the Euro area. 4 – It depends on the medium-run real equilibrium interest rate, r^* (two-sided), based on the Laubach-Williams/Garnier-Wilhelmsen method and on its associated output gap, y.

Sources: Beyer and Wieland (2017), ECB, Eurostat, own calculations

Policy rate vs Orphanides-Wieland 2013 Rule

Policy rate change = 0.5 (Inflation forecast – target)

+ 0.5 (GDP growth forecast – Potential growth rate)



GCEE 2017: A strategy for monetary policy normalization

1. Expand forward guidance to a Governing Council forecast

- inflation, growth, policy rates and balance sheet
- alternatively, publish survey of individual GC member forecasts

2. Sequencing: End net purchases first, then raise interest rates and start normalizing balance sheet.

3. Policy reaction: respond symmetrically and proportionally to macro developments during normalization. Abandon "lower for longer".

4. Avoid financial and fiscal dominance (communication strategy).

GCEE 2017: Announce a procedure for reducing balance sheet and returning government debt holdings to pre-crisis level.

Need to gain policy space for future downturns.

Already near maximum relative to self-imposed issue and issuer limits that ensure that ECB is not forced to oppose debt restructuring.

Permanent increase in sovereign debt holdings of euro system would imply monetary financing of government activity.

Exposure to sovereign "risk" on balance sheet.

Potentially increased desire to influence central bank.



Additional material on important risks and international comparisons

Interest rate risk on bank balance sheets



Risks: Real estate prices rising due to lower interest rates (prices in German cities up relative to population growth)



Vertical axis: population growth Horizontal axis: Price increse

Sovereign risks - Italy



Monetary-fiscal interactions: Governments postpone consolidation, pro-cyclical fiscal policy.

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2007 08

Gov debt % of GDP



Cumulative savings since 2007 In % of GDP¹

- Germany - France - Italy - Spain

16 2017

Central banks are now major creditors of governments



Central bank Domestic MFI Domestic financial non-MFI Domestic non-financial sector Rest of world



Sovereign debt holdings expose central bank to sovereign member states.

Recall Italian coalition plan to reduce government debt by 250 bln Euro at the expense of Bank of Italy balance sheets.

Bank of Italy financial buffers,

124 bln Euro. (provisions, capital

, reserves, valuation reserves).

- → negative equity 126 bln Euro
- ➔ Profits too small to recover.
 2017 net profit of Bol: 3,4 bln.
 2005-07, 50-130 mln Euro.



1 – Sum of net interest income, net result of financial operations, write-downs and transfers to/from risk provisions, net income from fees and commissions, income from participating interests, net result of monetary income, net income from financial assets relating to the investment of reserves and provisions, other transfers from provisions, other income less expenses and other fees as well as taxes on incomes and reserves. 2 – Net profits less ordinary reserve, dividend distributed to shareholders and special item for stabilising the dividend.

Sources: Banca d'Italia, IMF, own calculations

TARGET2 Balances



20

International comparison of policy rates



International comparison: Balance Sheets (% BIP)



International comparison: Consumer prices



International comparison – GDP per capita



International comparison – GDP per capita

