

A FLEXIBLE INFLATION TARGETING REGIME

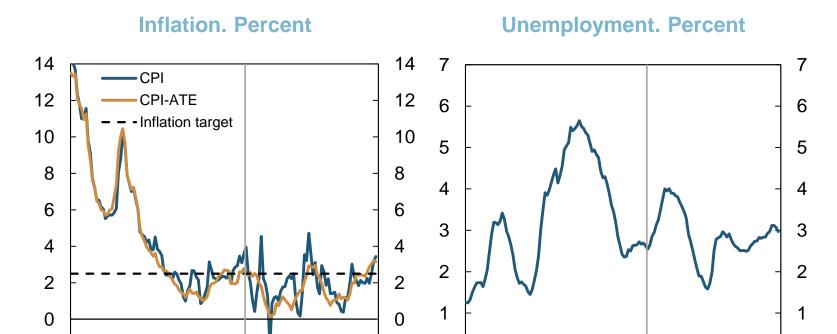
GOVERNOR ØYSTEIN OLSEN, CME, 11 OCTOBER 2016



NORGES BANK 200th Anniversary

Performance

-2

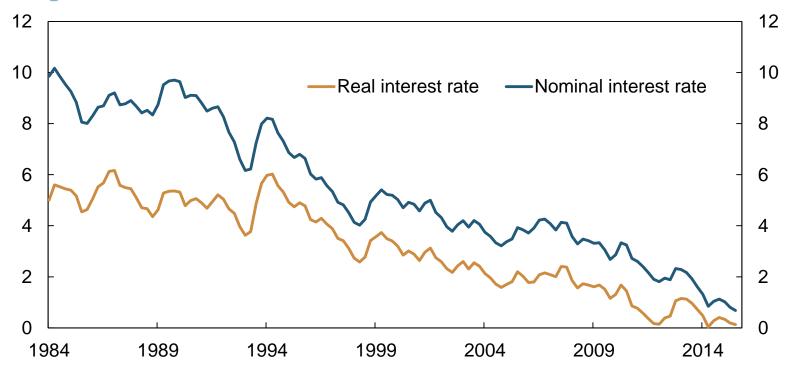




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International interest rates

Long-term interest rates. 14 OECD countries¹⁾. Percent



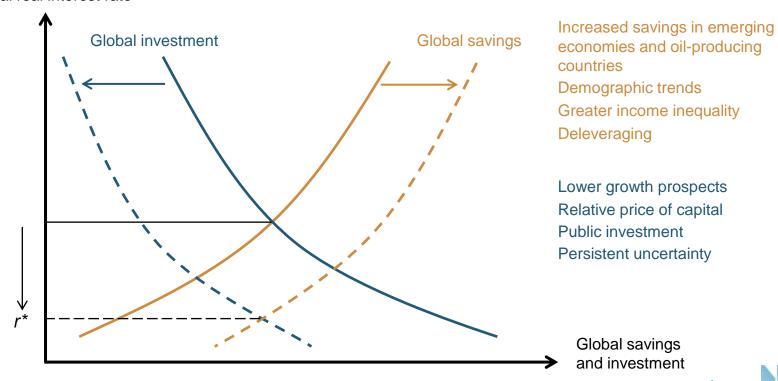
1) US, Germany, France, Italy, UK, Japan, Netherlands, Austria, Belgium, Sweden, Denmark, Canada, Switzerland and Norway. Unweighted average.

Source: OECD



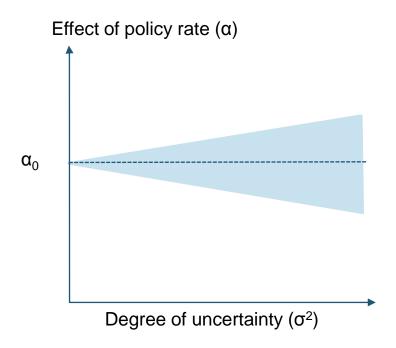
Forces driving the fall in the global real interest rate

Global real interest rate





Uncertain effect of policy rate



Target:

Minimise $L_t = E_t (y_t - y^*)^2 = (E_t(y_t) - y^*)^2 + var_t(y_t)$

Effect of policy rate on economy:

$$y_t = y^* - \alpha_t r_t + x_t$$
$$\alpha_t = \alpha_0 + \varepsilon_t, \varepsilon_t \sim N(0, \sigma^2)$$

Monetary policy response when x_i changes:

a) Uncertainty about effect of policy rate

$$\sigma^2 > 0$$
, $r_t = \frac{1}{\alpha_0 + \sigma^2/\alpha_0} x_t$

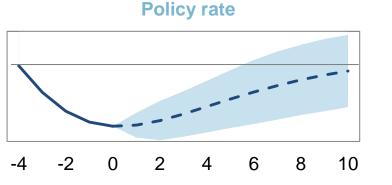
b) No uncertainty about effect of policy rate

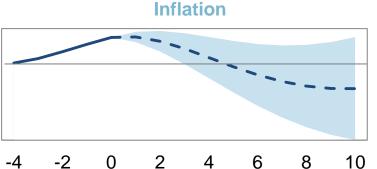
$$\sigma^2 = 0, \qquad r_t = \frac{1}{\alpha_0} x_t$$



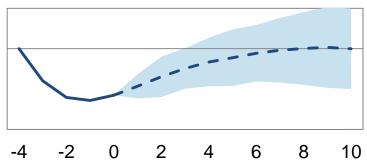
Monetary policy and uncertainty

Active monetary policy to counteract shocks





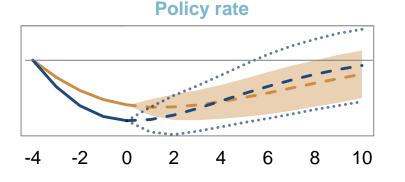
Output gap

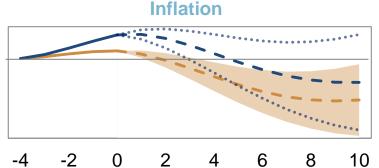




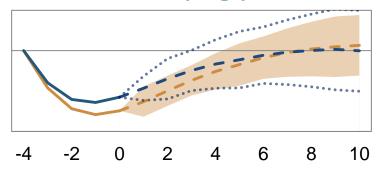
Monetary policy and uncertainty

A more cautious policy response reduces uncertainty





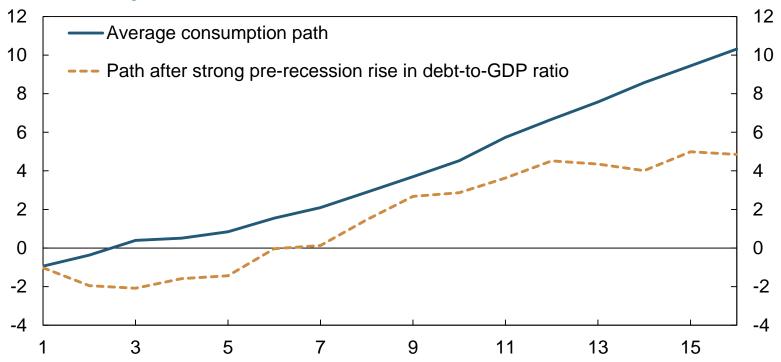
Output gap





Estimated path for total consumption during recessions

Number of quarters from start of recession. Percent



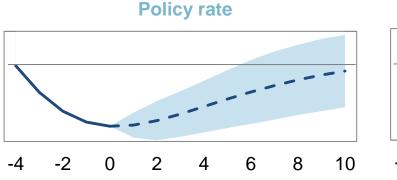
¹⁾ Strong growth is defined as a rise of more than one standard deviation above the average. The rise is the average rise in the five years preceding the start of the recession.

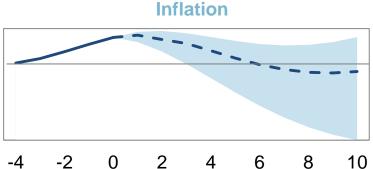
Sources: BIS, Federal Reserve Bank of Dallas, OECD, Statistics Norway and Norges Bank



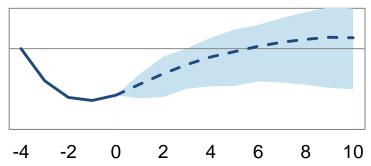
Monetary policy and financial stability

Financial imbalances give rise to tail risk





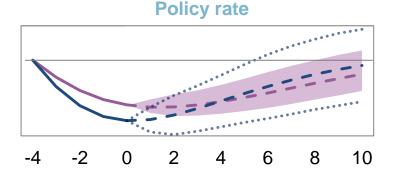
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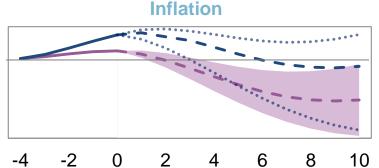




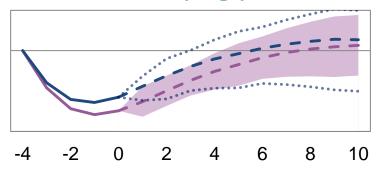
Monetary policy and financial stability

Consideration of financial imbalances reduces tail risk





Output gap





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