



Anna Seim

Deputy Governor of the Riksbank



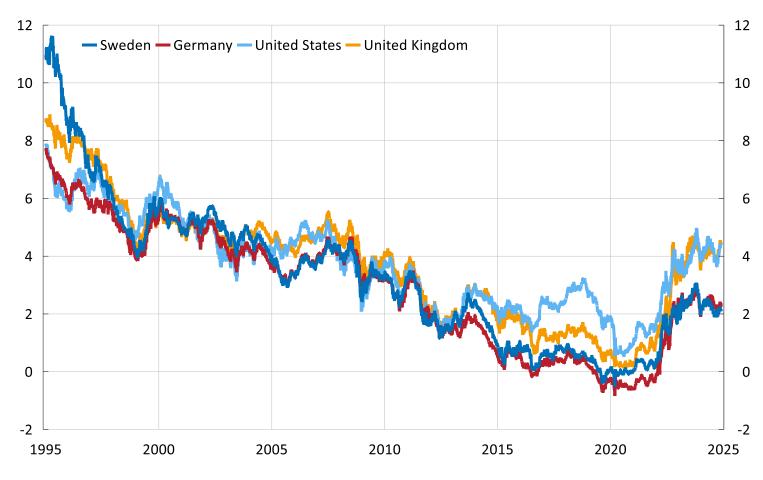
What is the neutral interest rate?

- The rate that neither stimulates nor tightens the economy
- Natural interest rate, r* or r-star are often used synonymously
- Today, I refer to the *nominal* neutral interest rate
- In the long run, when the economy is in balance and inflation is on target, the policy rate and the neutral rate coincide







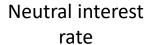


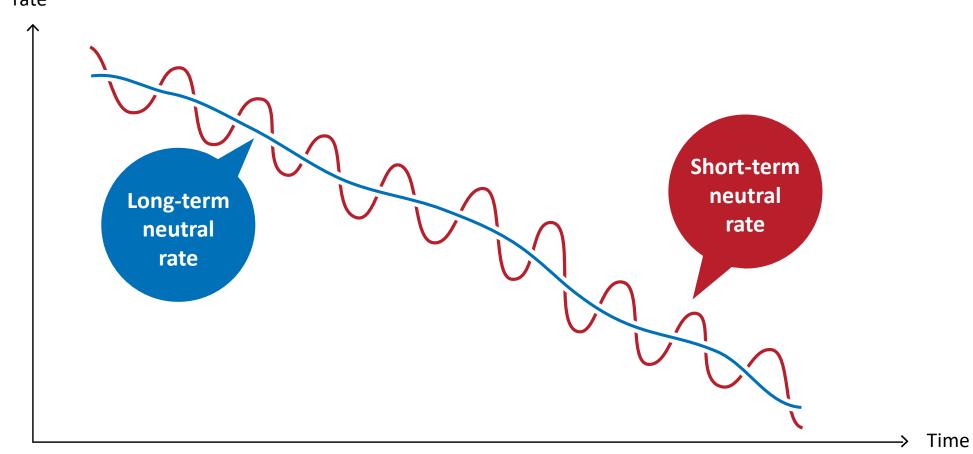
Note. 10-year government bond yields for each country.

Source: Macrobond Financial AB.



Short and long term component

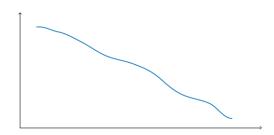


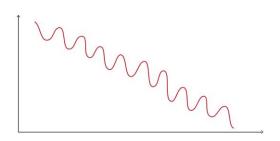




The short- and long-term neutral interest rate

- Hypotheses on the long-term decline
 - High global savings to investment ratio
 - Demographic changes
 - Increasing income inequality
 - Weak productivity growth
 - Increased preference for safe assets
- Hypotheses on short-term deviations from trend
 - Country-specific factors
 - Temporary fiscal policy measures
 - Temporary changes in productivity





The significance of the neutral interest rate for monetary policy



- Conceptually important as a reference for monetary policy
- If the policy rate is higher than the neutral rate: tightening policy
- If the policy rate is lower than the neutral rate: expansionary policy
- Changes also have significance











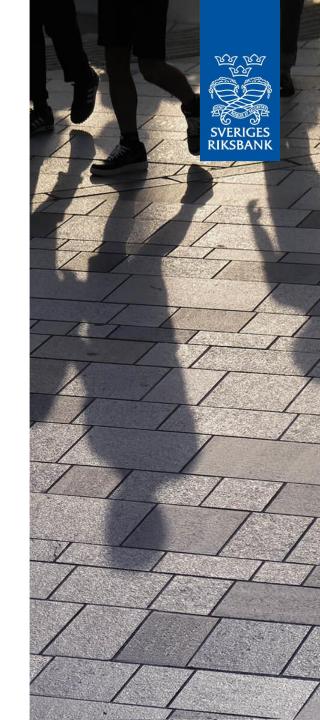
Neutral rate - limitations

- Non-observable and difficult to estimate
- Difficult to use in practical policy
- Important to continuously monitor effects on the economy



Further development of the neutral interest rate

- Historically low in the early 2020s
- Still a debate on the drivers of the downturn
- Ongoing international debate on future developments
 - Depressing drivers persist
 - But major investment needs globally (climate, defence)
- Not likely with strongly rising neutral rate



The Riksbanks's earlier assessments of the long-term neutral interest rate

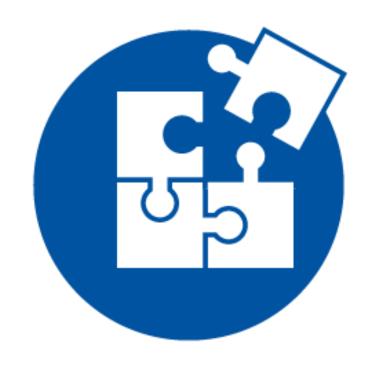
- Assessment 2017: 2.5 4 per cent
- Assessment in 2019 and 2022: "At the lower end of, or slightly below, the range from 2017"



The Riksbank's current assessment

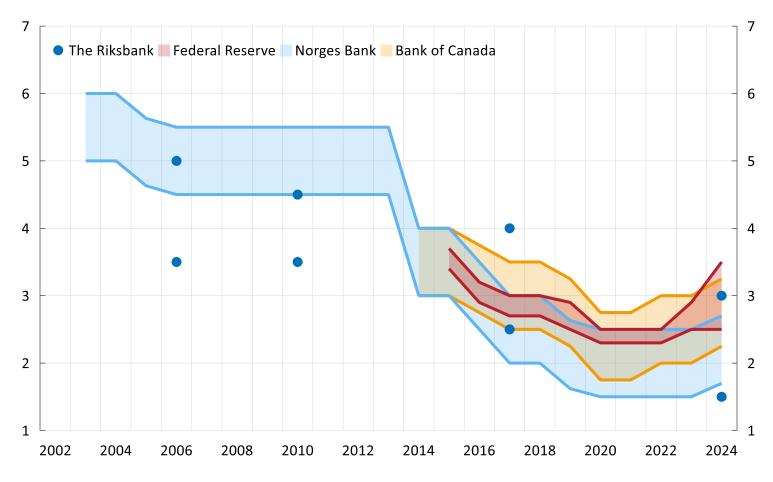


- New assessment: 1.5 3 per cent
- Based on
 - Estimates of models on Swedish data
 - International studies
 - Other central banks
 - Information from financial markets



The Riksbank's and other central banks' assessments of the neutral interest rate





Sources: The Riksbank and the respective central bank.

Interest rates as low as before the rise in inflation?

- With a neutral interest rate in the range of 1.5 to 3 per cent, the policy rate could become zero or negative again
- Past dampening effects on inflation of globalisation and digitalisation
- Now:
 - Deglobalisation (reshoring, trade barriers)
 - Benefits of digitalisation largely already achieved?
- Higher underlying inflationary pressures ahead?
- Fewer and shorter periods of really low policy rates?





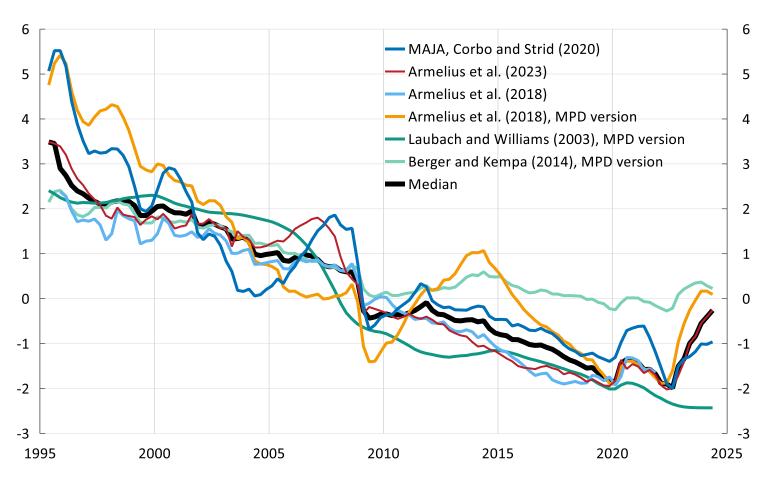
Estimating the trend level of the real neutral interest rate with semi-structural models



- Research literature following Laubach and Williams (2003)
 - Models:
 - Holston, Laubach and Williams (2003, 2017): IS and Phillips, closed economy
 - Berger and Kempa (2014): LW with an open economy element
 - Armelius et al. (2018: LW with an open economy element
 - Corbo and Strid (2020): MAJA, two-country general equilibrium model (DSGE)
 - Armelius et al. (2023): LW with an open economy element, more data
 - Estimates on Swedish data using Bayesian methods
 - Estimates for 2024 are roughly in the range -1.0 to 0.5
 - Significant uncertainty in the estimates (parameter, model, estimation method)
- More details in a forthcoming staff memo

Estimating the trend level of the real neutral interest rate for Sweden





Note. Per cent. The period covered by the estimates is 1995Q2-2024Q2. The version of the Monetary Policy Department (MPD) differs from the original model in some respects.

Sources: Armelius et al. (2018), Armelius (2023), Laubach and Williams (2003), Berger and Kempa (2014), The Riksbank.