Governor Ida Wolden Bache Norges Bank

TRANSMISSION OF MONETARY POLICY



Jackson Hole Economic Policy Symposium Federal Reserve Bank of Kansas City August 22-24, 2024



Handout with charts

Governor Ida Wolden Bache, Norges Bank Remarks at the 2024 Jackson Hole Economic Policy Symposium August 24, 2024



Chart 1: The tightening was synchronized across countries Nominal policy rates 2020-2024

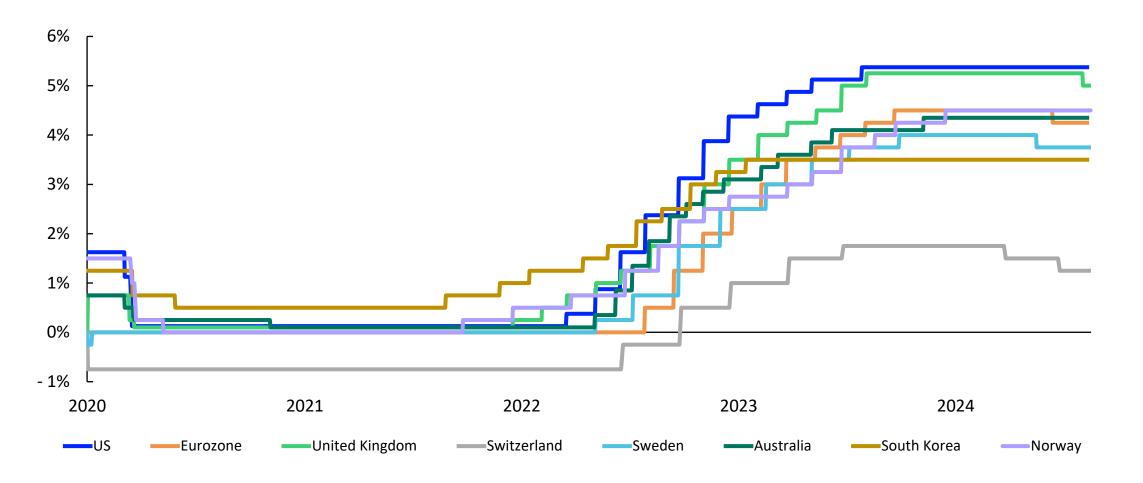
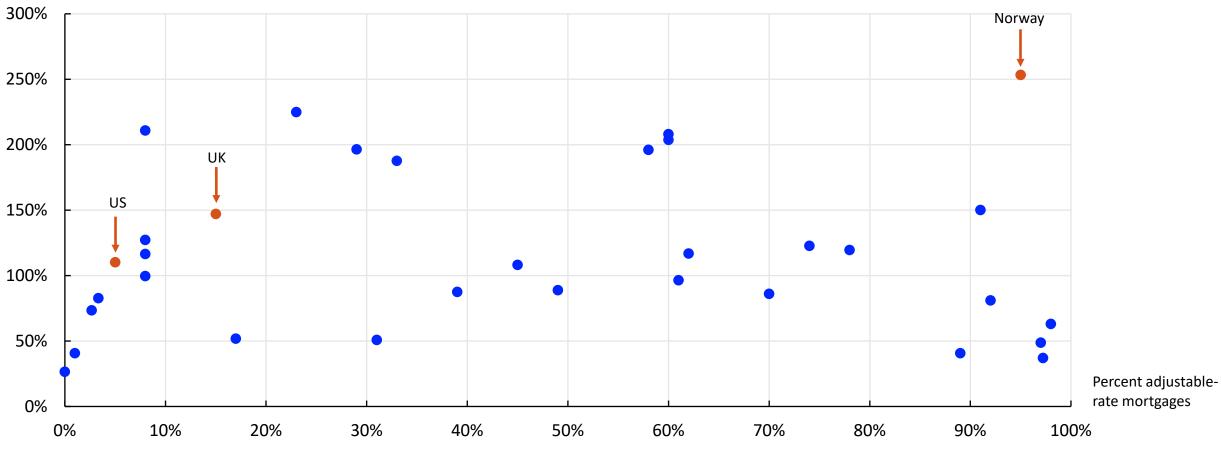




Chart 2: Large differences in pass-through of monetary policy to disposable income Household debt/disposable income and fraction adjustable-rate mortgages, by country

Debt, percent of disposable income



Selected countries based on data availability, mostly OECD members. Data from 2022 and 2023. For most countries, mortgages defined as fixed-rate if > 12 months residual fixation period (see IMF World Economic Outlook April 2024, chapter 2).



Chart 3: Faster pass-through to interest payments in Norway than in US

Sources: Norges Bank, Statistics Norway and Bureau of Economic Analysis

Policy interest rates and personal interest payments in percent of disposable income

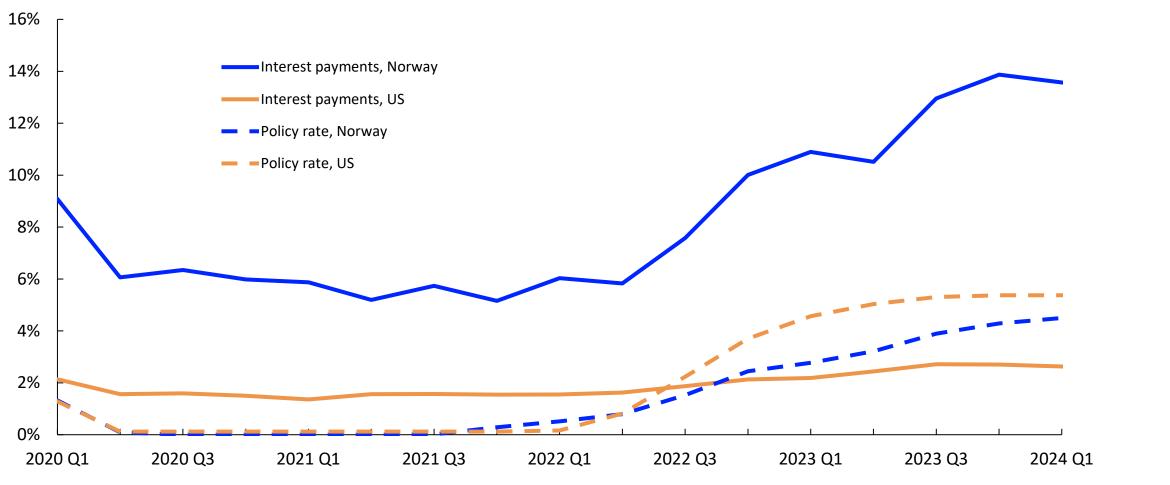
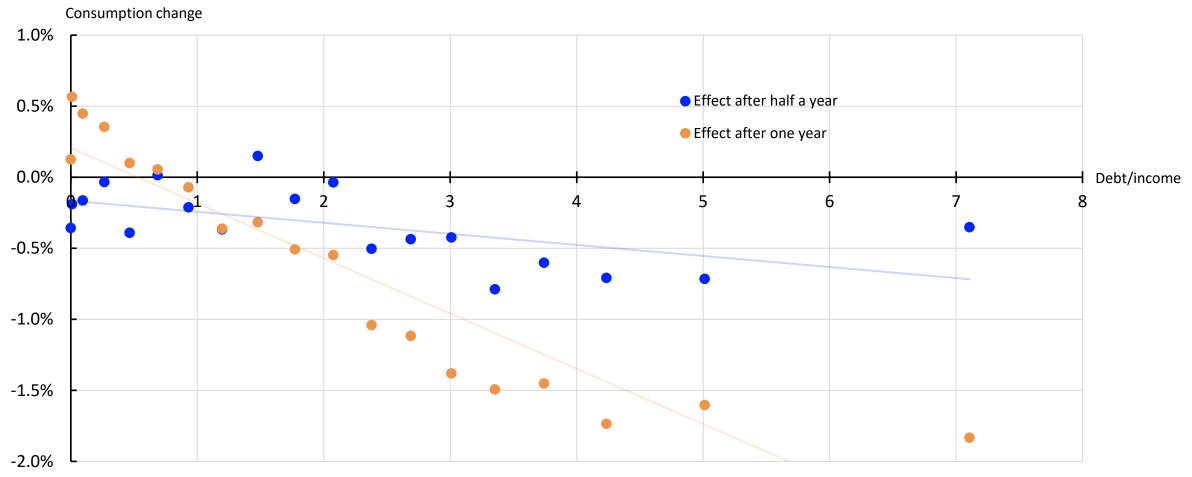




Chart 4: More indebted households respond more strongly to interest rate Effect of 1 percentage point increase in interest rate on consumption, by debt/income of household

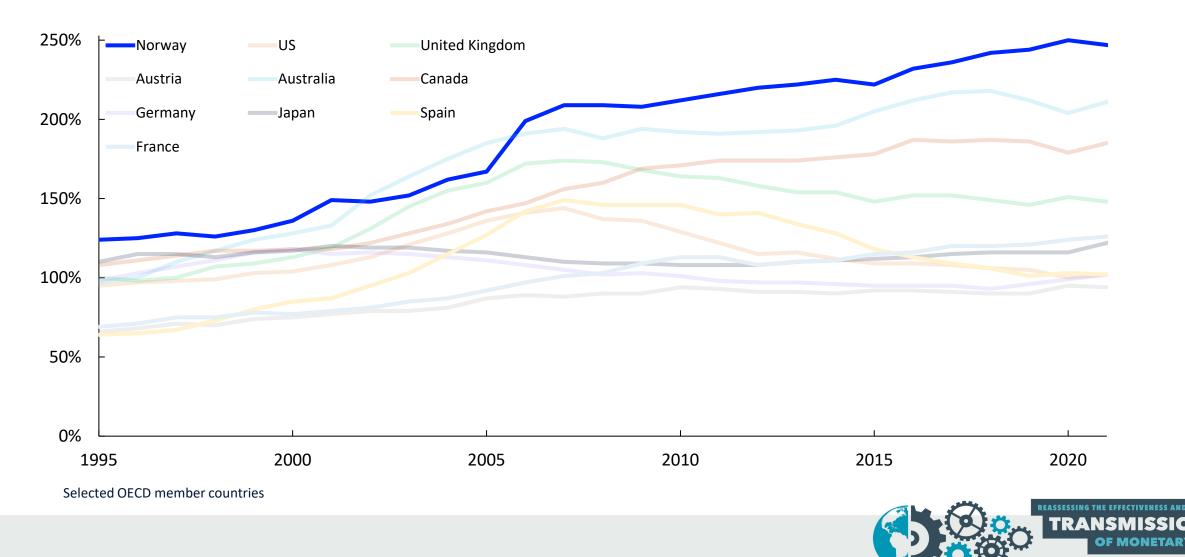


Short-run interest rate instrumented with high frequency monetary policy shocks. Separate regressions for 20 quantiles of debt/income. Effect in percent of after-tax income.



Chart 5: Households around the world have become more indebted

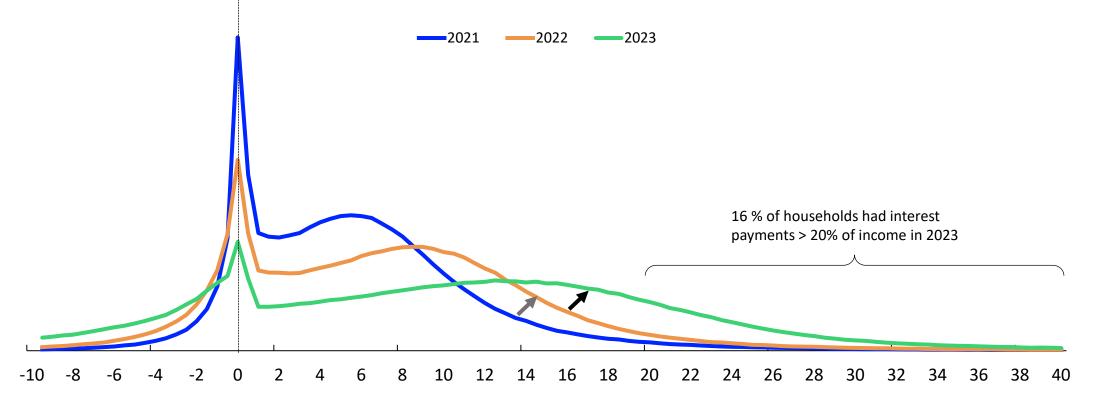
Household debt in percent of disposable income, 1995-2021



Source: OECD

Chart 6: Households have spent an increasing share of income to cover interest payments Distribution of net interest expenses in percent of after-tax income, Norwegian households



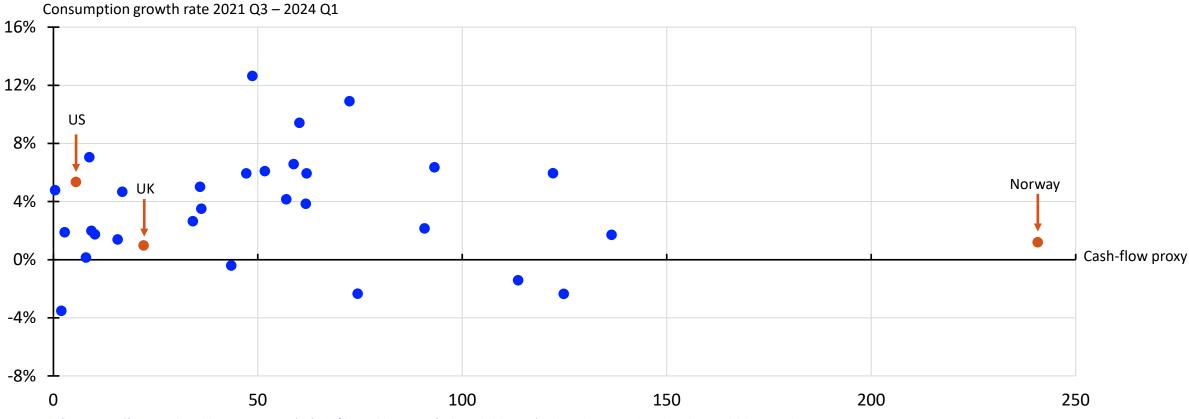


Histogram based on tax returns for balanced panel of Norwegian households (provisional numbers for 2023).



Chart 7: Not weaker consumption growth in countries where the cash-flow channel is ^{Sources: Eurostat, Federal Reserve, FRED,} expected to be strong

Change in real private consumption (percent) 2021 Q3 – 2024 Q1 and proxy for strength of cash-flow channel



Cash-flow proxy = (fraction adjustable-rate mortgages) x (debt/disposable income for household sector). Selected countries based on data availability, mostly OECD members. Data from 2022 and 2023 for DTI and fraction ARM mortgages.

