



RESERVE BANK OF AUSTRALIA

Progressive Taxation and Monetary Policy in Australia

Ekaterina Shabalina

Reserve Bank of Australia

Any opinions expressed are those of the author and do not reflect those of the Reserve Bank of Australia

September 4, 2025

This talk: Question

Question: How does tax progressivity affect monetary policy?

- tax progressivity acts as an automatic stabilizer against income changes
→ a decrease in pre-tax income is partially offset by a lower tax rate
- it affects households' precautionary savings, ability to accumulate wealth, influences labour force participation decisions

Those effects have implications for:

1. The natural rate of interest
2. Monetary policy transmission and trade-offs
3. The distributional effects of monetary policy

This talk: Approach

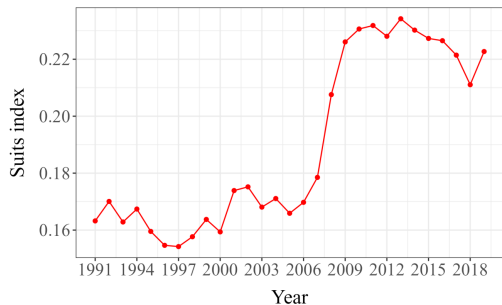
Answering this question

- requires a model with progressive taxation and heterogeneous households/incomes
- requires a general equilibrium model with price rigidities to study monetary policy

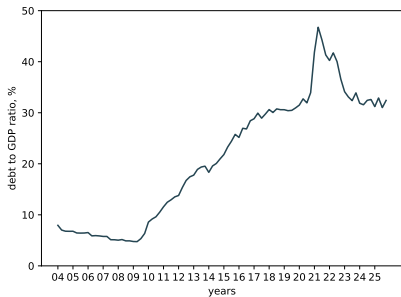
Approach: Australian HANK (Heterogeneous Agent New Keynesian) model

- households with different income and wealth levels
- households, firms, the central bank, fiscal authority, and foreign sector meet in asset, goods and labour markets and their decisions are based on current and expected economic conditions
- extensive fiscal block
- resource sector, open economy, offset accounts

Recent developments: Tax progressivity increased since the GFC



Source: Tran and Zakariyya (2023).



Source: ABS and AOFM.

- with government debt rising roughly at the same time - implications of which are more studied in the international literature, therefore a useful benchmark

This talk: Results

1. Natural rate:

- A higher natural rate is associated with greater tax progressivity.
- The increase in progressivity since the GFC has put an upward pressure of around 5 b.p. on the natural rate.
- The contribution from government debt expansion is half of that.
- The increase is primarily driven by the insurance role of progressive taxation.

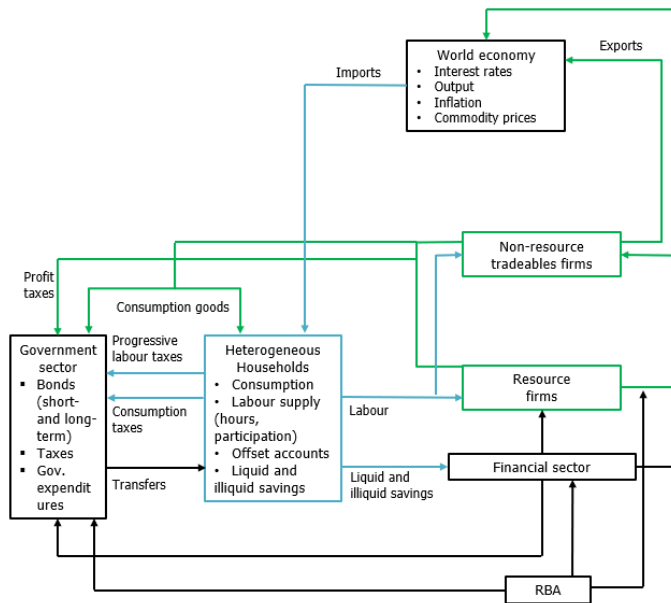
2. Monetary policy transmission:

- The insurance role of progressive taxation leads to higher labour force participation in response to monetary tightening.
- A similar/slightly improved inflation-output trade-off under higher tax progressivity.

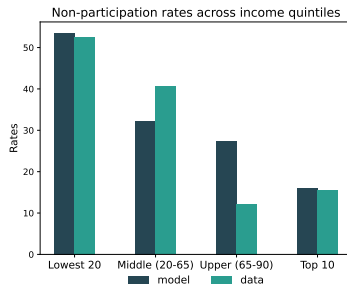
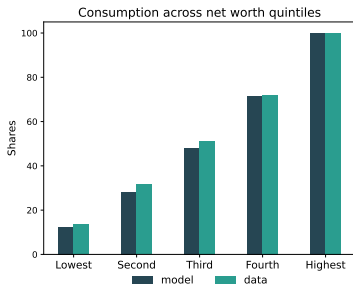
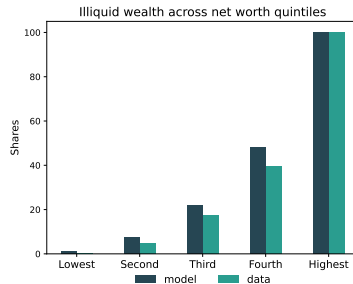
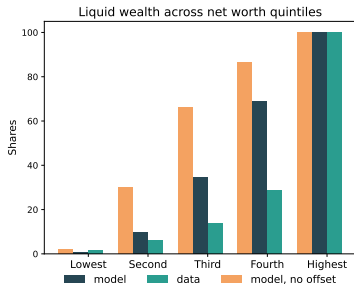
3. Distributional effects:

- Changes the burden of monetary tightening across the population.

Australian HANK model



Model details: Heterogeneous households



Model details: Fiscal and monetary policies

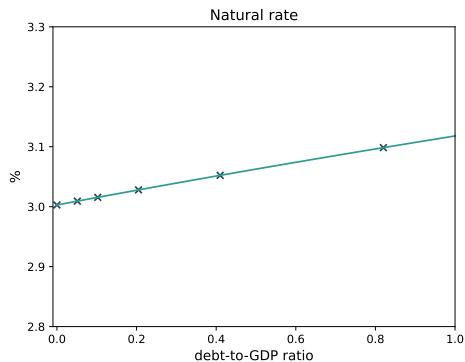
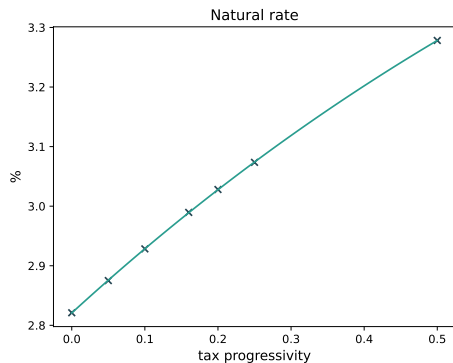
Fiscal policy tools:

- progressive labour income taxes
- average labour income tax
- consumption tax
- profit tax
- government spending
- short- and long-term government debt

Monetary policy tools:

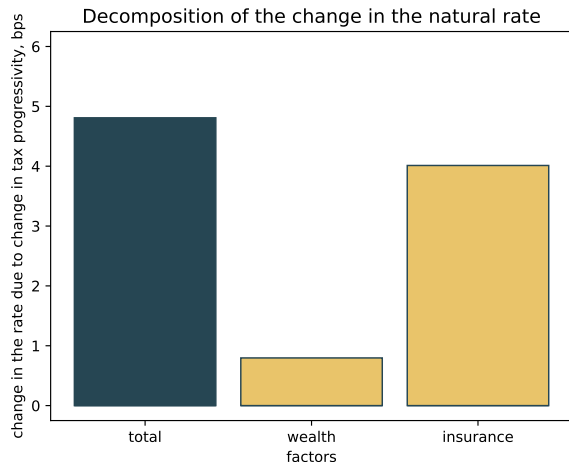
- cash rate

Quantitative results: Higher natural rate with higher tax progressivity



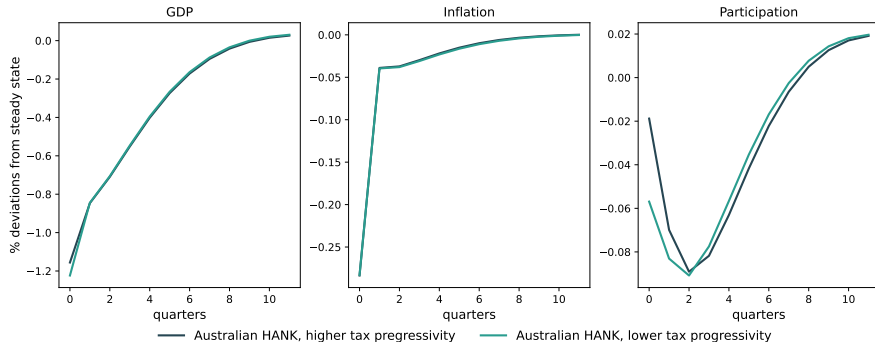
- natural rate is the riskless return that equates the demand and supply of savings in the long-run equilibrium - long-run r^*
- since GFC change in progressivity from 0.16 to 0.2 $\rightarrow \approx 5$ b.p. in natural rate
- since GFC change in debt-to-GDP from almost 0 to 0.2 \rightarrow half of the above

Quantitative results: Higher natural rate is driven by insurance motive



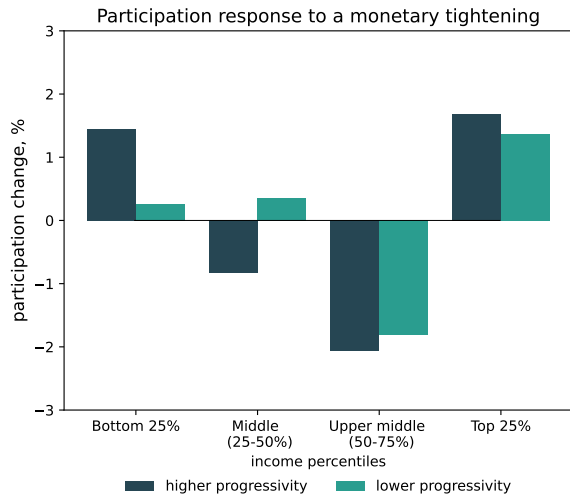
- when income shocks are better insured, less incentives for self-insurance through precautionary savings
- higher tax rates on high-income households, who have lower propensities to consume, lead to a decline in aggregate savings

Quantitative results: Similar/slightly improved inflation-output trade-off



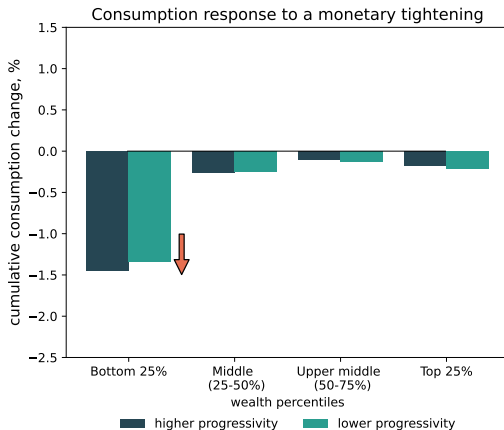
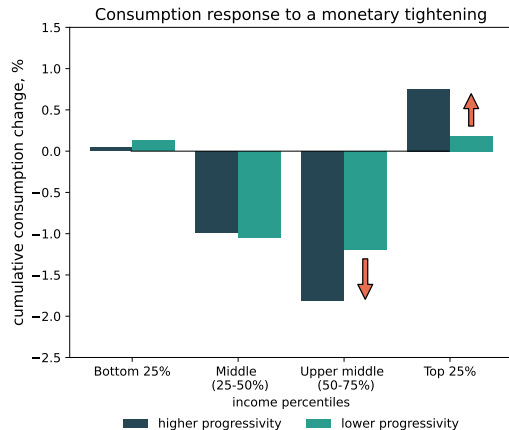
- with higher progressivity household labour force participation falls less when interest rates increase, which supports aggregate economic activity

Quantitative results: Participation responses vary across the population



- bottom: higher participation due to a greater need to sustain consumption
- middle: lower participation as a result of reduced labour earnings and increased capital income
- top earners: higher participation due to a selection effect
- higher progressivity → amplification of responses

Quantitative results: Amplified distributional effects with higher progressivity



- amplification amid lower levels of precautionary savings with higher progressivity

Conclusions

The development of a new tool that combines household heterogeneity with aggregate dynamics provides a framework for investigating the implications of progressive taxation on monetary policy.

Higher tax progressivity implies

1. A higher natural rate of interest, driven by reduced levels of precautionary savings.
2. Higher participation in response to monetary tightening, which results in a smaller decline in economic activity and therefore a slightly improved/similar inflation-output trade-off.
3. Amplified distributional effects of monetary policy: beneficiaries gain more, while those who bear the costs experience greater losses.

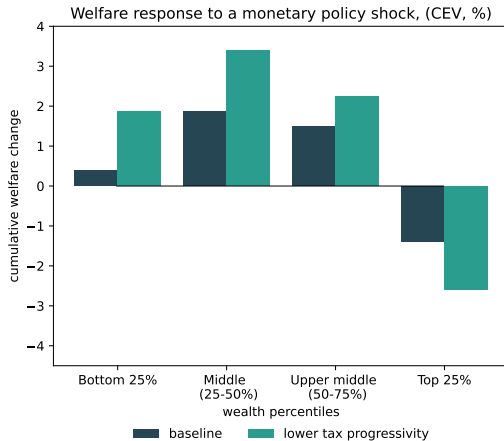
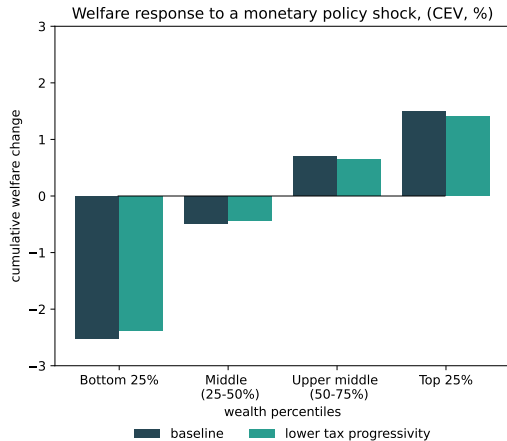
Spares

Future directions

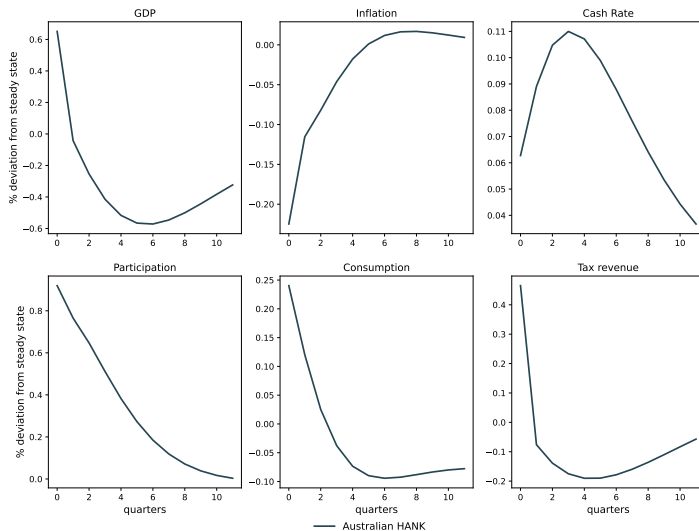
The model allows to study

- distributional effects of shocks/policies
- changes in the distribution affect monetary transmission and the aggregate economy
- extensive fiscal block allows to look at the effects of debt maturity, liquidity premium, taxes, transfers, benefits on monetary policy
- ...

Quantitative results: Distributional effects depend on fiscal policy reaction to monetary tightening



Quantitative results: Increase in tax progressivity is inflationary



Drivers of r^*

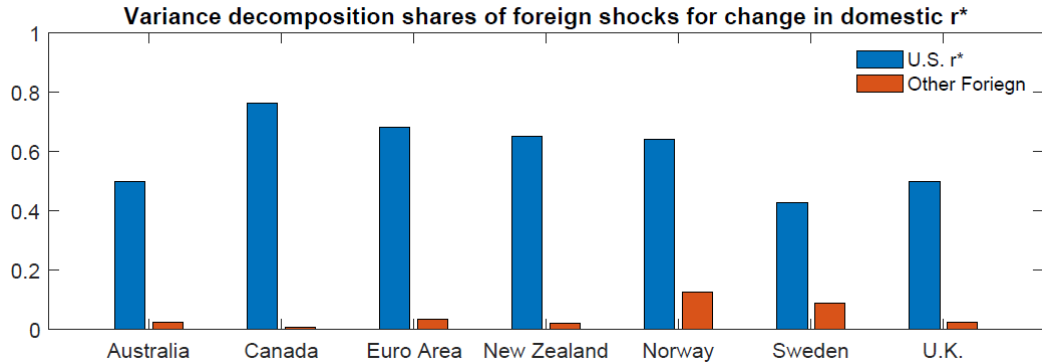


Figure 3: Morley and Wong (2025)

Progressive taxation

