

Response to Fundamental Change

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Motivation

- A number of challenging developments in **society and the real economy** could ultimately trigger monetary and financial stability problems.
- Central banks will have to **anticipate** these challenges as much as possible, and **respond** to them when they lead to acute problems.



Key Challenges

- 1. Technical innovations** in the financial sector
 - Digital currencies → payments and credit systems may have to adjust
 - Peer-to-peer lending, crowd-funding → competition for bank credit
- 2. Demographics/aging** → adjustments in insurance, asset prices, interest rates
- 3. Increased income inequality** → lower interest rates, greater financial fragility
- 4. Climate change**
 - Structural transformation → “stranded assets”, credit risk in “old” industries
 - Catastrophes → lower world growth, insurance industry losses



Topic 1:

Why Might Central Banks Issue Digital Currencies?

Digital Currencies: Choices for Central Banks

- Finance is being changed by technology
- Central banks can respond in two ways:
 - By monitoring and responding to developments
 - By being proactive:
 - Central banks could issue digital currencies themselves
 - If done right, this could contribute to greater financial stability



CB-issued Digital Currencies: Costs and Benefits

- Financial Stability:
 - Cost: Hard-to-predict effects on existing settlement and credit institutions
 - Benefit: More easily controlled means of settlement and exchange
- Regulation:
 - Cost: Many currently unresolved technical issues
 - Benefit: Regulation will be simpler because there are no credit risk issues
- Seigniorage:
 - Cost: Identification/verification has real resource costs
 - Benefit: Central bank issuance reduces identification/verification costs



CB-issued Digital Currencies: Key Policy Questions

- **Monetary Control:**
 - Who would receive digital currency: Banks only, NBFIs, households, firms?
 - How would public digital and private credit-based currency compete?
 - How would the monetary transmission mechanism change?
 - What policy instruments do central banks have to influence this process?
- **Prudential/Regulatory Control:**
 - What are the implications for government-backed deposit insurance?
How does it affect competition between digital and credit-based money?
 - How do we regulate institutions offering access to digital currency?

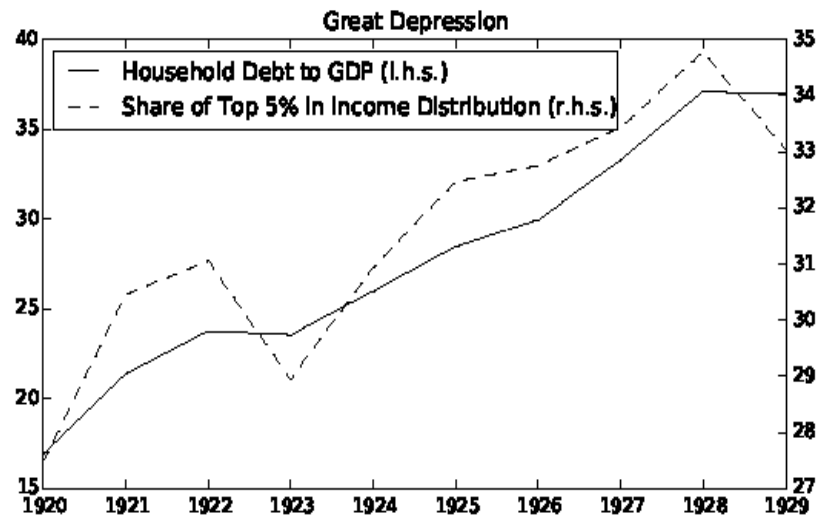
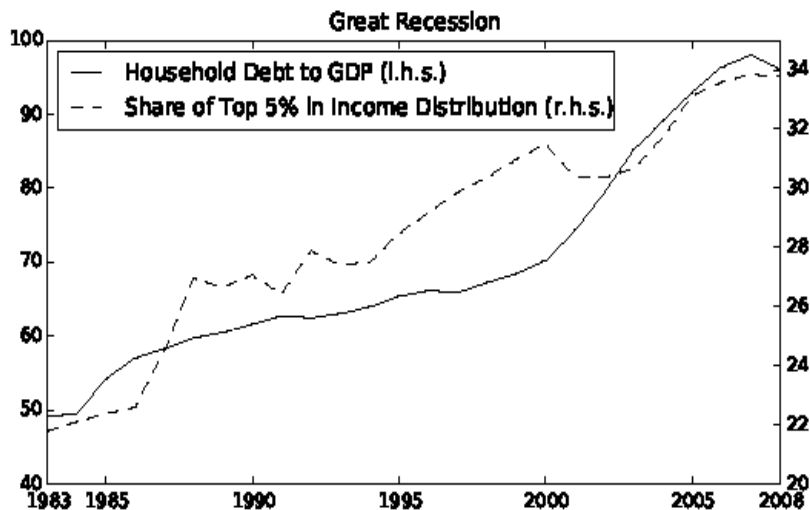


Topic 2: Demographics, Income Inequality and the Financial System

- Secular Stagnation:
 - Demographics: Does aging drive down real interest rates?
 - Inequality: Does high saving propensity of the rich drive down interest rates?
- Monetary Policy Effectiveness:
 - Demographics: Is expenditure of the old less sensitive to interest rates?
 - Inequality: Is expenditure of the poor more or less sensitive to interest rates?
- Financial Stability – The Inequality-Leverage-Crisis Link:
 - Individual economies: How important is this link? What factors affect it?
 - Open economies: Can this link affect net (CA) and gross capital flows?
 - Everywhere: Can monetary and macroprudential policies affect inequality?



Chart: The Inequality-Leverage-Crisis Nexus Prior to Major U.S. Crises



Sources: Income shares from Piketty and Saez (2008, updated). Income excludes capital gains. Household debt-to-GDP ratios from Philippon (2018), based on Flows of Funds database and Bureau of Economic Analysis.

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Conclusions

- As the two examples have shown, Theme 5 encompasses a very broad set of questions that traditionally would not have been thought of as core central bank problems.
- But these questions have potentially large financial stability implications, and financial stability has become a much more prominent aspect of central bank work.
- It therefore makes sense to broaden the research agenda of central banks in order to address these questions.

