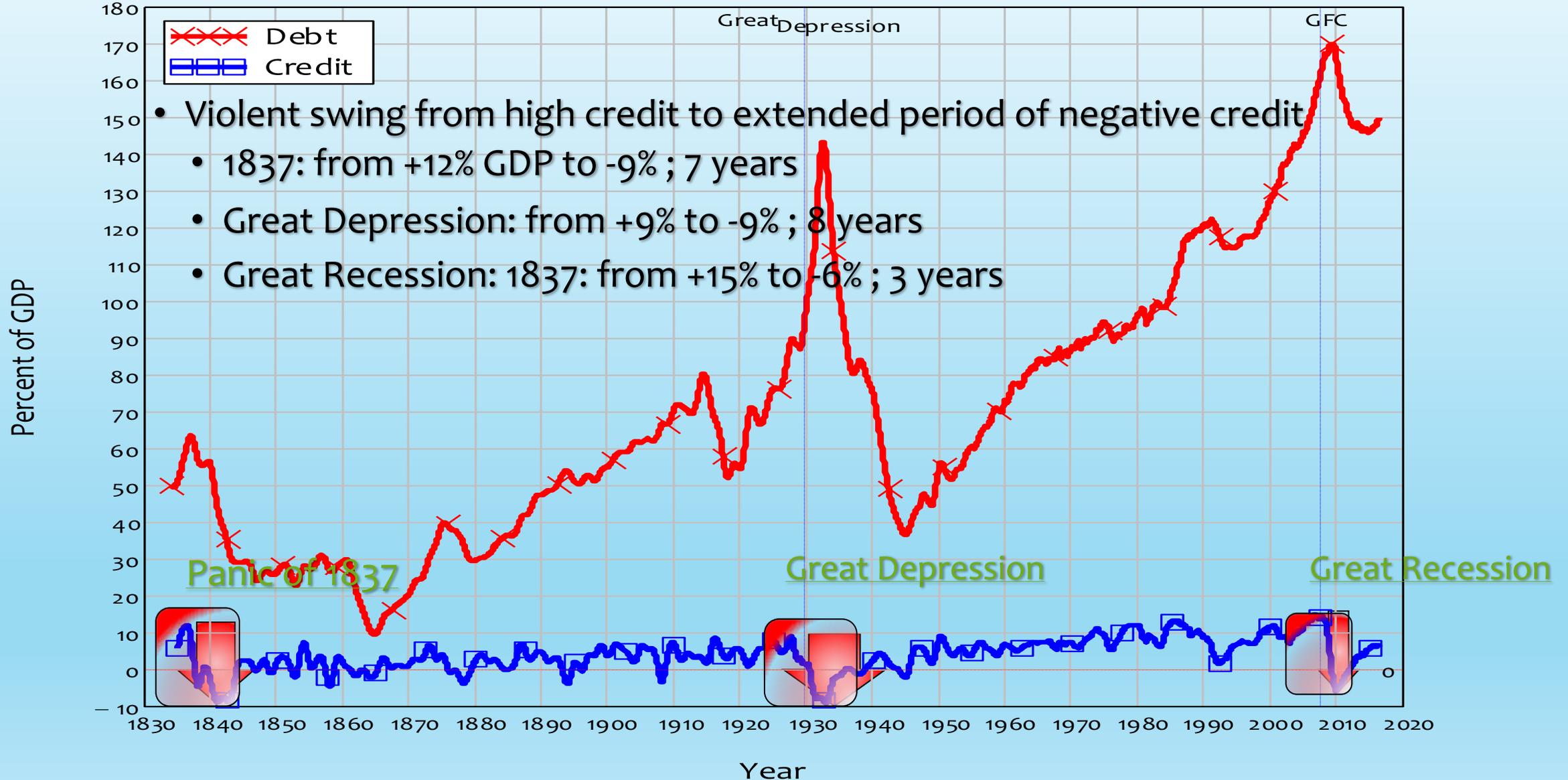


Capitalism's biggest crises have been credit crises...

USA Private Debt and Credit



Which mainstream economics ignores *because of a fantasy...*

- Ben Bernanke 2000: “Absent implausibly large differences in marginal spending propensities among the groups, it was suggested, pure redistributions should have no significant macro-economic effects.” (p. 24)
- Paul Krugman [2012](#): “any individual bank does, in fact, have to lend out the money it receives in deposits.”
- That Central Banks are now calling out...
 - **Bank of England** [2014](#): “Rather than banks receiving deposits when households save and then lending them out, **bank lending creates deposits.**”
 - **Bundesbank** [2017](#): “this refutes a popular misconception that banks act simply as intermediaries at the time of lending.”
 - **Central Bank of Norway** [2017](#): “**banks create money out of nothing and withdraw it when loans are repaid.**”

Expenditure IS Income. AND Credit matters

- Example Without Lending:

Expenditure & Income	Tom	Dick	Harry
Tom	-200	100	100
Dick	100		100
Harry	100	100	-200

Expenditure

Income

- Expenditure=Income=\$600/Year

- With “Loanable Funds” Lending: Dick lends Tom \$10 at 10% interest

Expenditure & Income	Tom	Dick	Harry
Tom	-(200+10+1)	100+1	100+10
Dick	(100-5)	-(200-10)	(100-5)
Harry	100	100	-200

- \$10 credit-based spending cancels at the aggregate level
- \$1 interest is expenditure for Tom and income for Dick
- Expenditure=Income=\$601/Year

Expenditure IS Income. AND Credit matters

- Real-world “Bank Originated Money & Debt” (**BOMD**)
 - Tom takes out a loan of \$10 (not shown in this table) from the Bank & pays 10% interest on the loan to the Bank
- Total expenditure is total income equals \$612/Year...

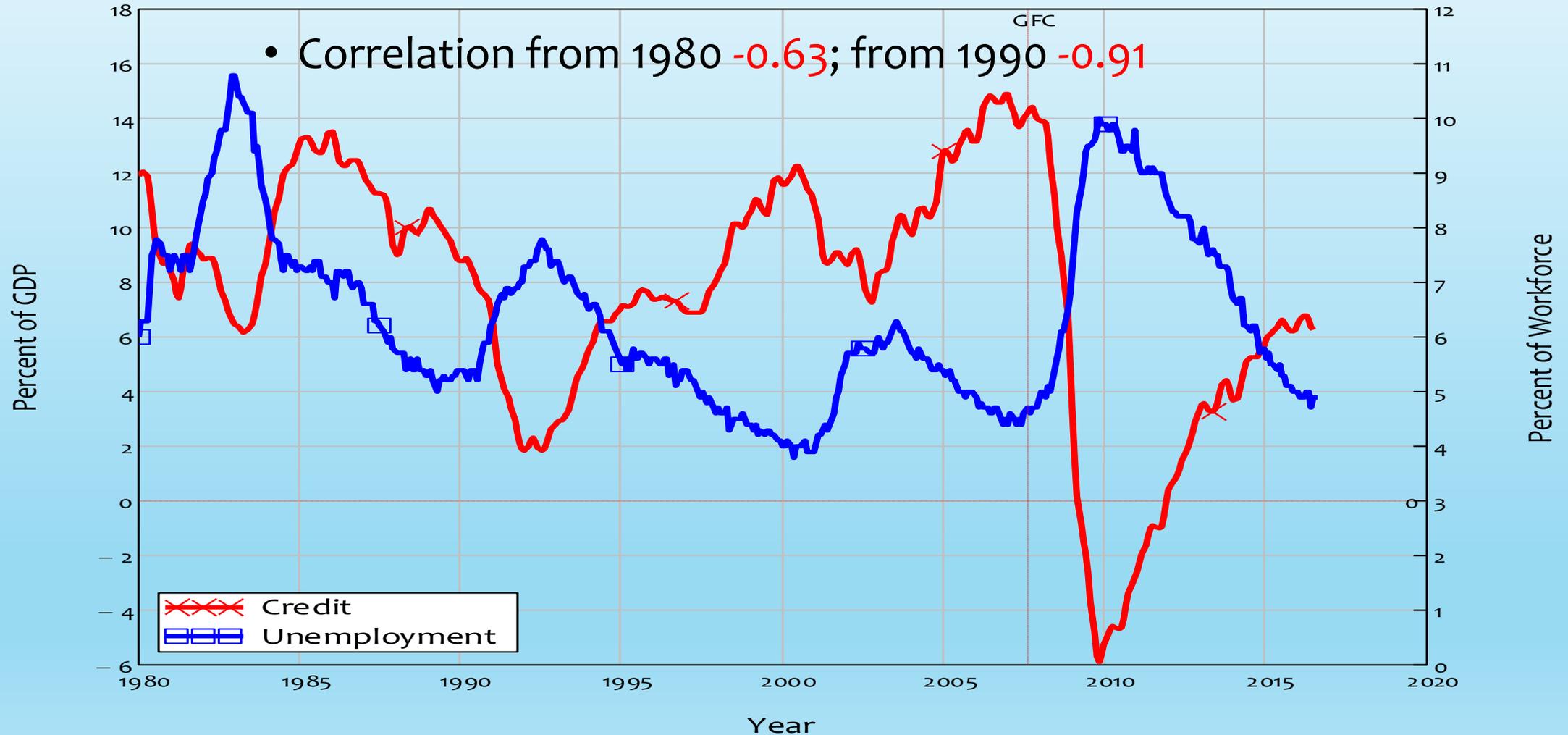
Expenditure & Income	Tom	Dick	Harry	Bank
Tom	-(200 - 10 - 1)	100	100 + 10	+1
Dick	100	-200	100	
Harry	100	100	-200	
Bank		+0.5	+0.5	-1

- \$10 credit-based spending **does not** cancel:
 - \$10 created by debt increases bank assets (debt) and liabilities (deposits) equally
 - \$10 Demand created by expenditure of new money by Tom is income for Harry
 - \$1 interest is expenditure for Tom and income for the Bank
 - Bank spends \$1 interest income on Dick & Harry
 - Expenditure by Bank is income for Dick & Harry

Macroeconomic impact of credit is undeniable

- Especially with *High Debt/GDP*, Credit drives Employment & GDP

US Credit and Unemployment



Finance markets impact of credit is undeniable

- Acceleration of mortgage debt (Granger) causes house price changes

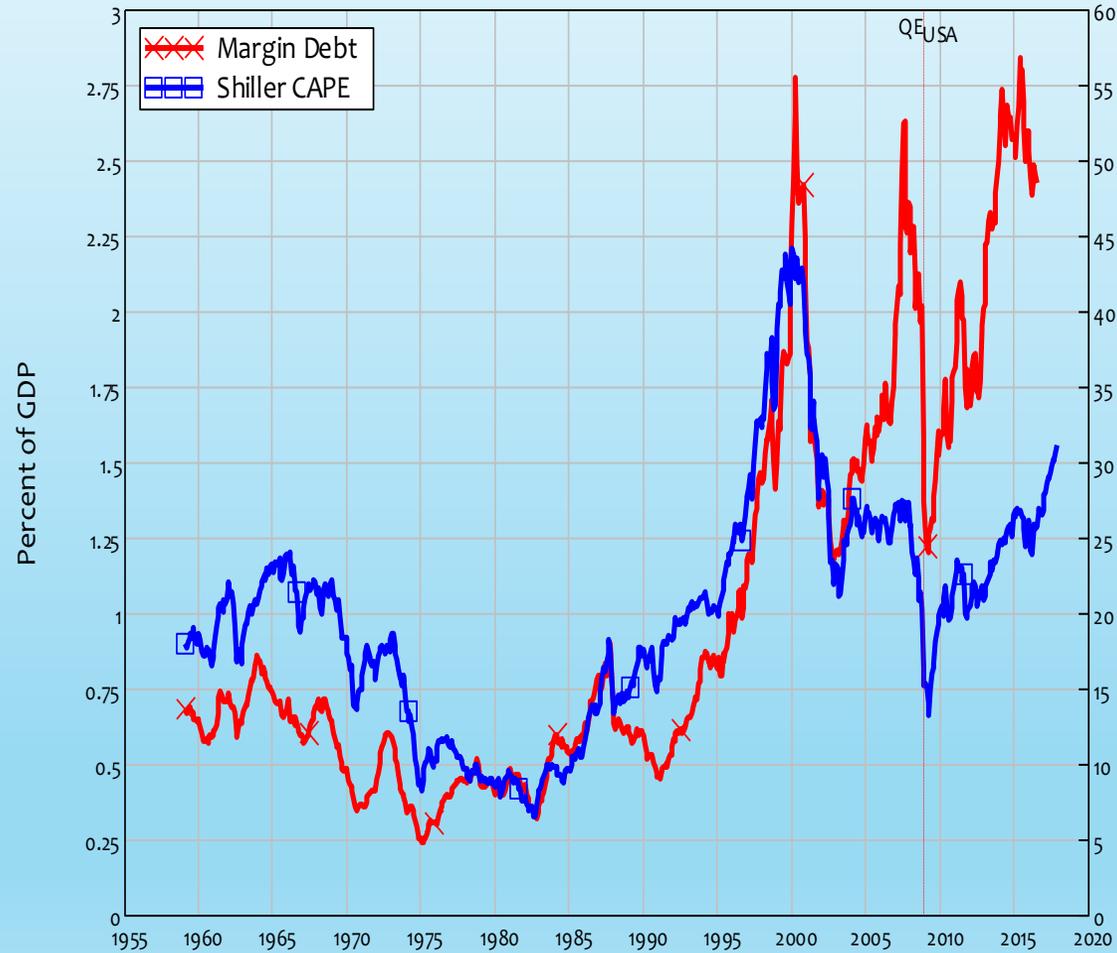
Household Debt Acceleration & House Price Change



Finance markets impact of credit is undeniable

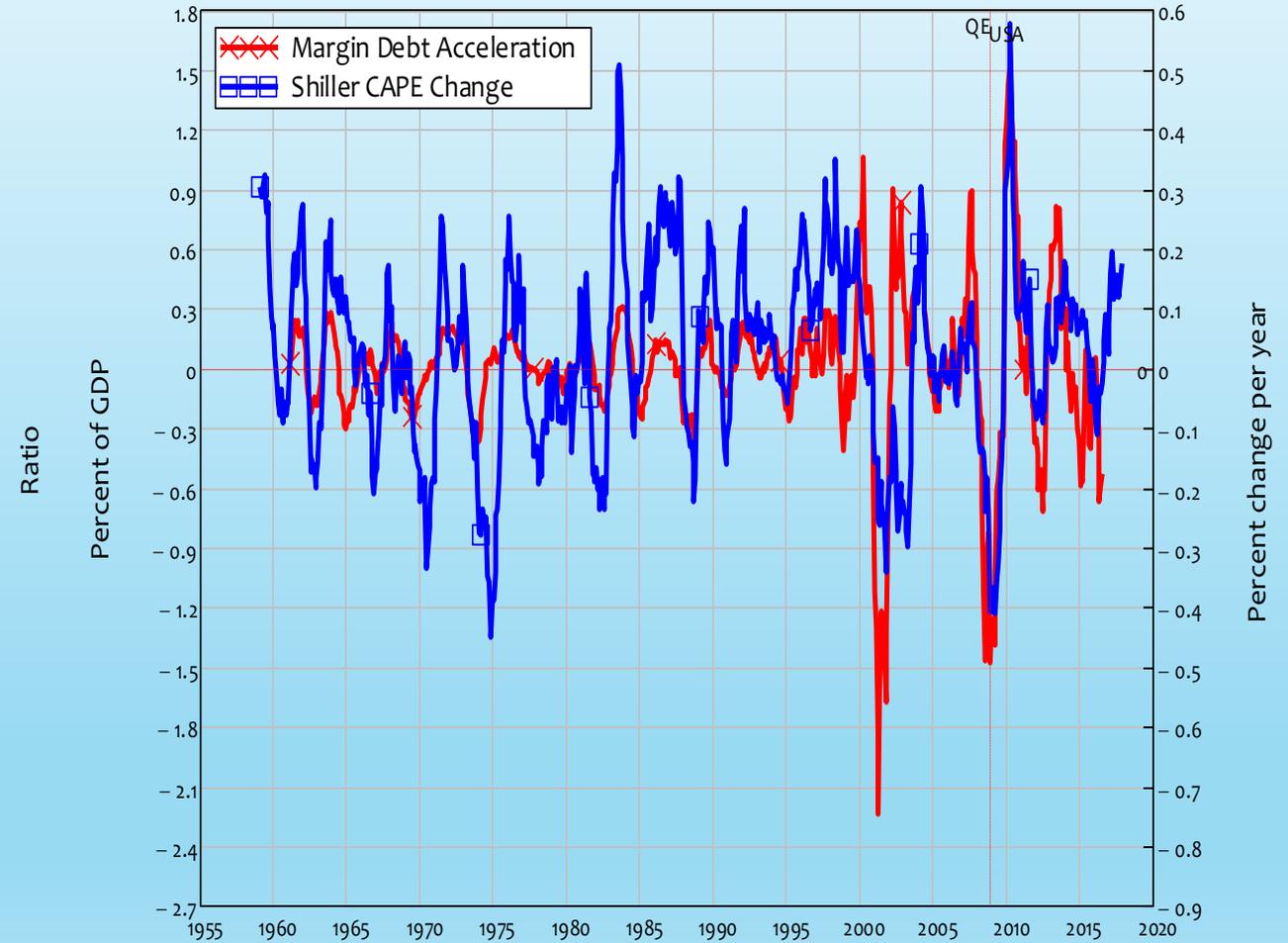
- Margin Debt and the S&P500

Margin Debt & SP500 Cycle Adjusted PE Ratio



NYSE & Robert Shiller

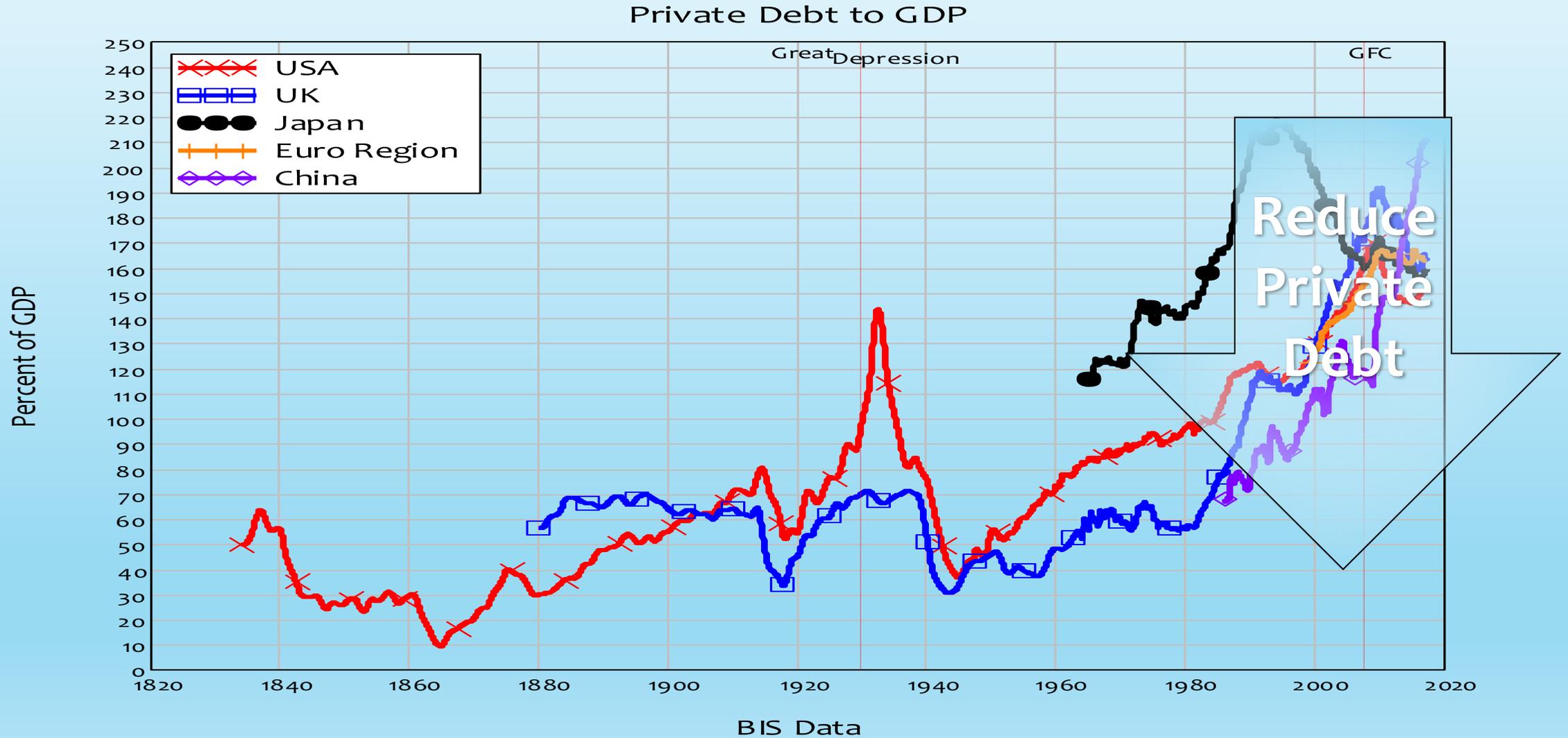
Margin Debt Acceleration & SP500 CAPE Change



NYSE & Robert Shiller

Policy Implications

- We have to reverse this mistake

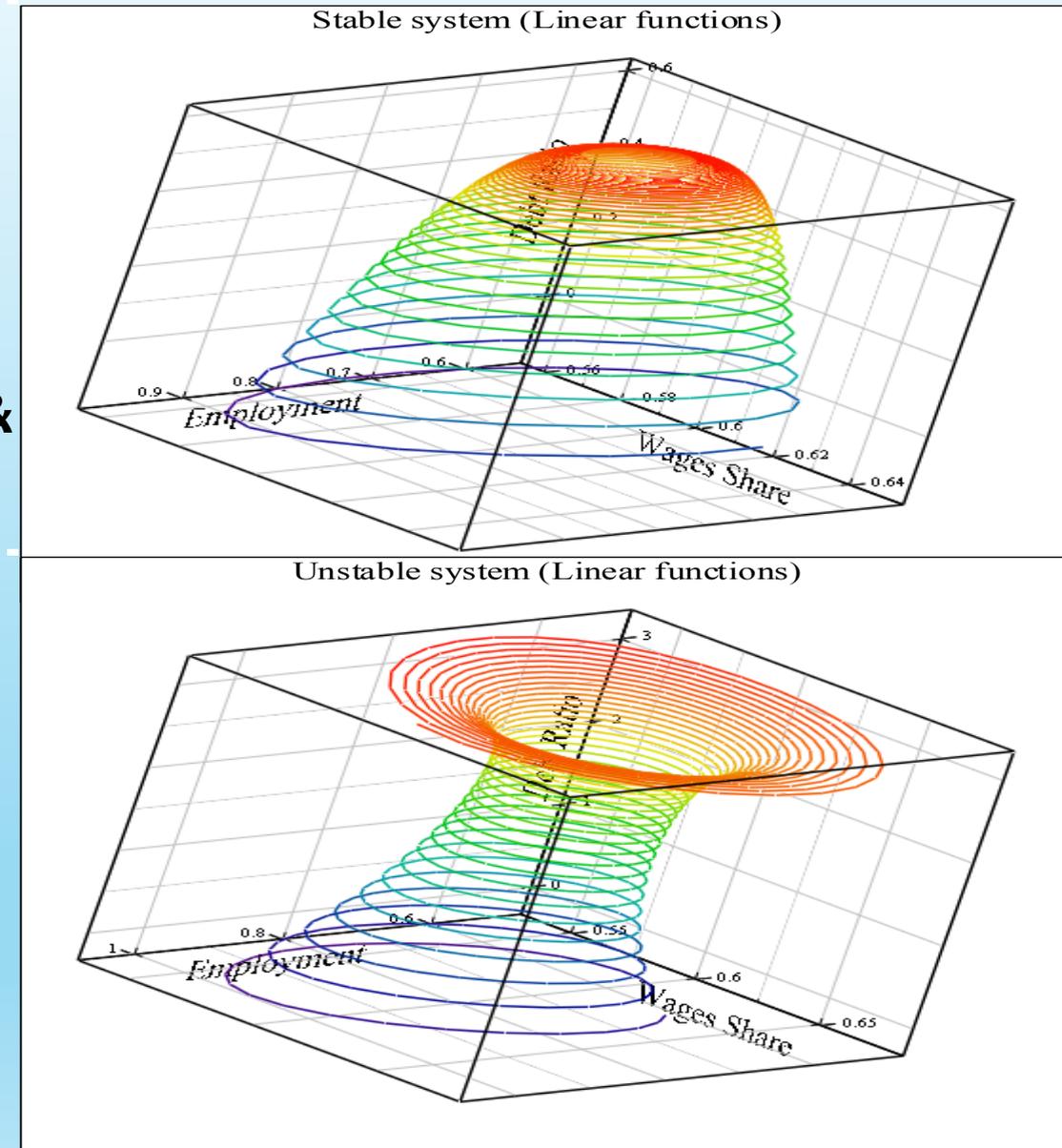


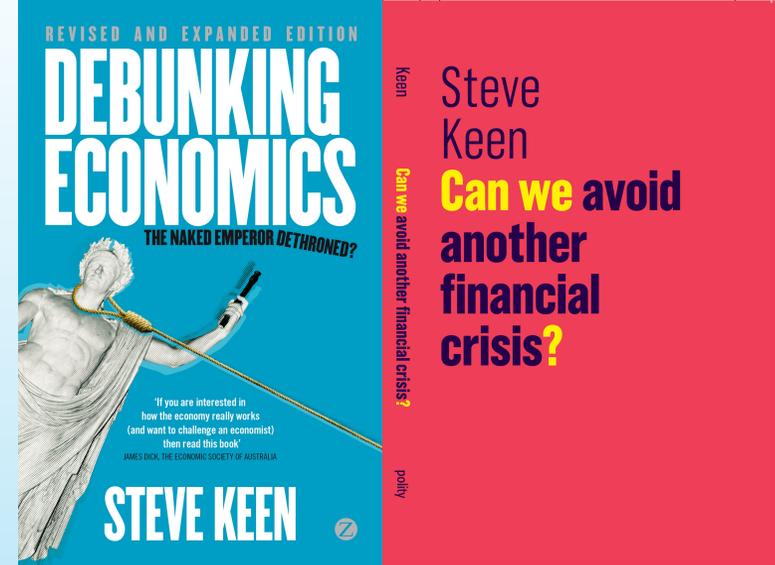
Policy Implications: Modern Debt Jubilee

- “QE For the People”
 - Direct per-capita injection into household bank accounts
 - Those with debt have debt reduced
 - Those without debt get cash injection
 - Cash must be used to buy corporate shares
 - Corporate shares must be used to reduce corporate debt
 - Reverse income inequality rise caused:
 - By private debt bubble in the first place
 - By misguided QE since then
 - Massive increase in share prices has benefited wealthy who own shares
 - Benefit to poor via pension funds, etc., relatively trivial
- The alternative? Continued stagnation like Japan’s “Lost Decade”
- Political turmoil as voters reject the political mainstream

Theoretical Implications: Build Macroeconomics *from Macro*

- Simple “complex systems” model predicts both “moderation” and crisis
- Combine three true-by-definition dynamic statements:
 - “Employment will rise if **economic growth** exceeds the sum of **population & labor productivity growth**”
 - “Wages share of output will rise if **wage rises** exceeds **growth in labor productivity**”
 - “Debt ratio will rise if rate of **growth of debt** exceeds rate of **growth of GDP**”
- Two possible outcomes
 - Stability if Debt/GDP stabilises
 - Moderation/Crisis if it doesn't





Rebuilding Economics

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15.30

DEBT TRAPS, PUBLIC AND PRIVATE

Speakers

Orsola Costantini
Steve Keen
Hashem Pesaran
Moritz Schularick
Adair Turner

Discussants

Roberto Ciccone
Pontus Rendahl
Chair
Richard Vague

REAWAKENING

