BRANDEIS INTERNATIONAL BUSINESS SCHOOL

Spillovers, Spillbacks and the Role of the VS Dollar

Comments by Stephen G Cecchetti

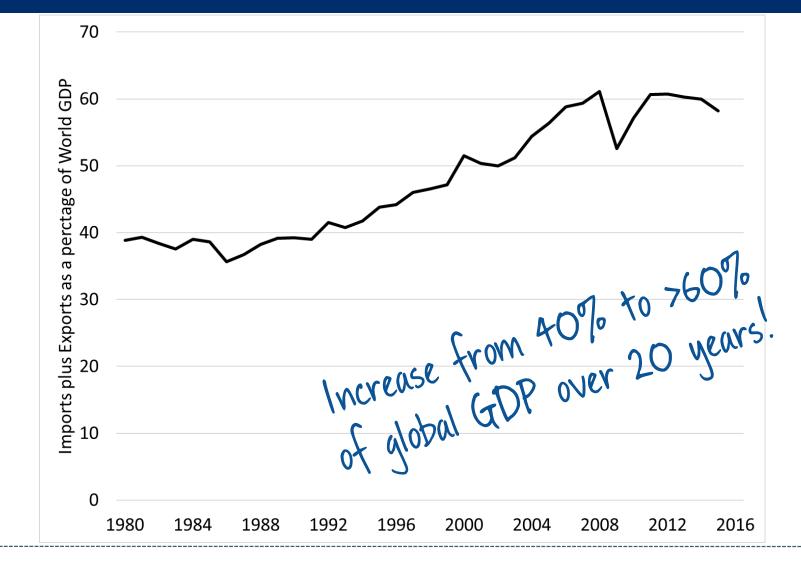
www.moneyandbanking.com



A quarter century of globalization

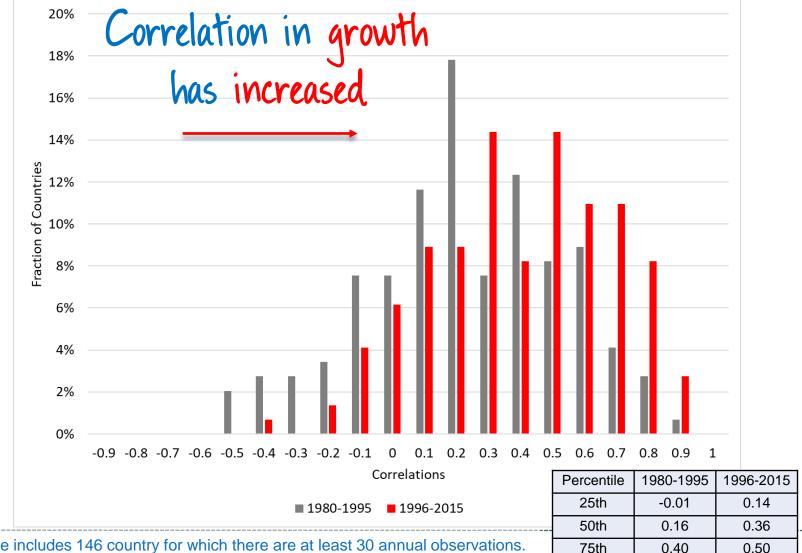
- Goods and service flows have increased
- Cross-country correlations have increased
- Information flows have increased
- Cross-border holdings have increased

World Trade



Source: World Bank.

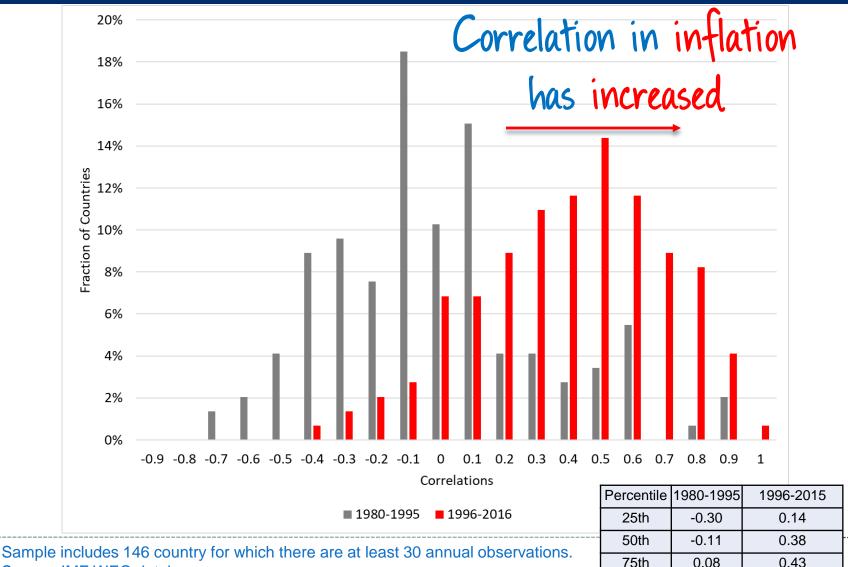
Correlation with global growth (histogram of bilateral country correlations)



Sample includes 146 country for which there are at least 30 annual observations. Source: IMF WEO database.

4

Correlation with global inflation (histogram of bilateral country correlations)

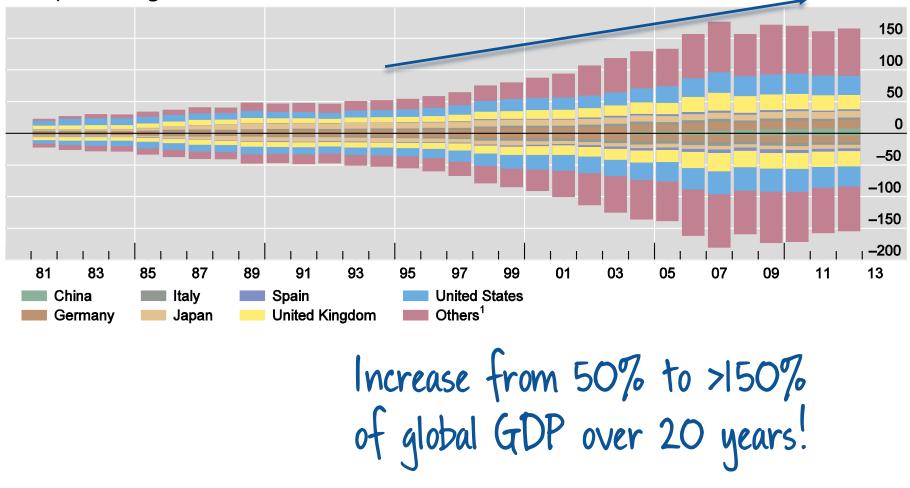


Source: IMF WEO database.

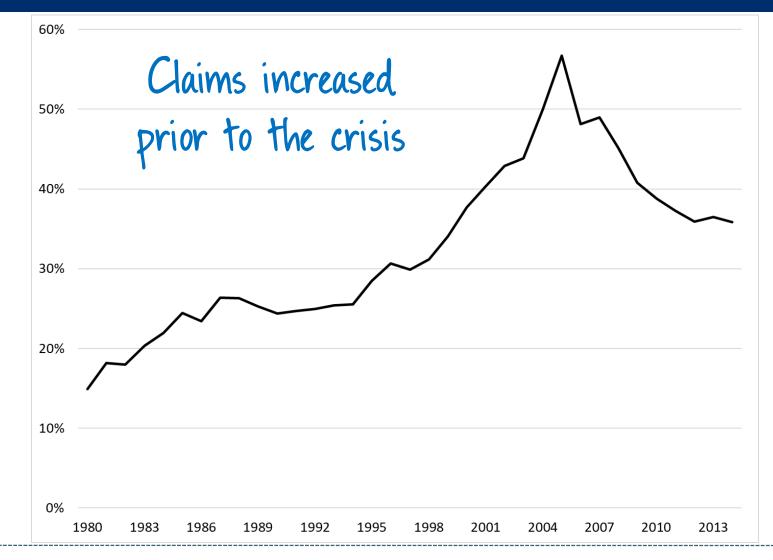
5

International Investment Positions

As a percentage of world GDP

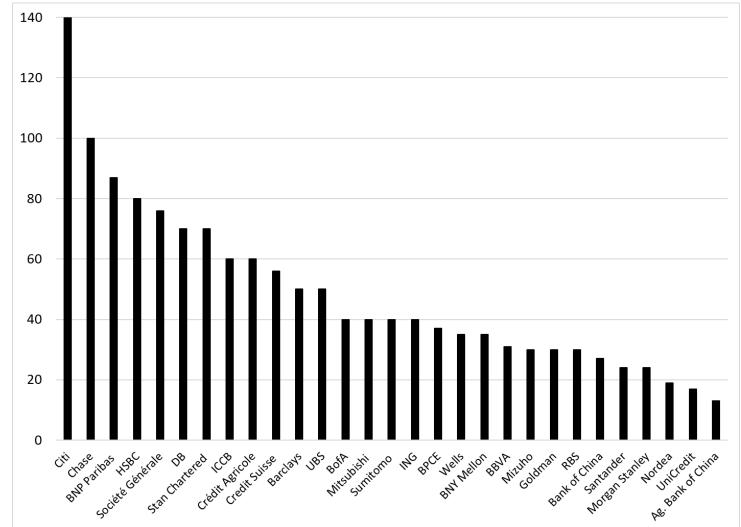


Cross-border bank claims (as a percent of world GDP)



Source: BIS.

Global Banks: Number of countries of operation

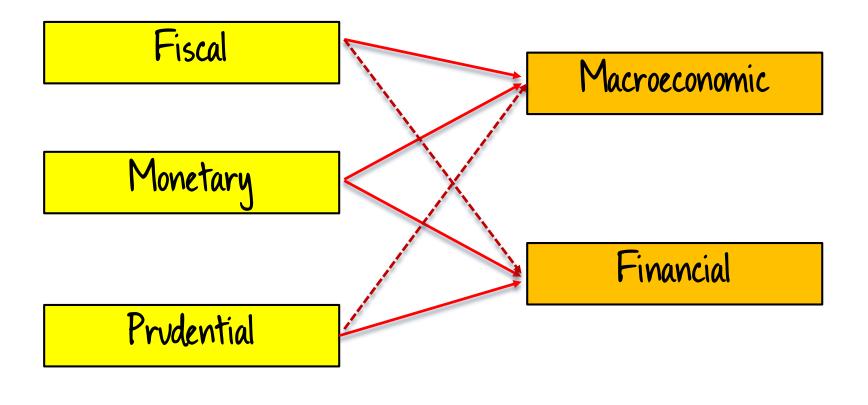


Source: Approximate numbers from bank websites.

A quarter century of globalization

- Goods and service flows have increased
- Cross-country correlations have increased
- Information flows have increased
- Cross-border holdings have increased

Types of policy spillovers



BRANDEIS INTERNATIONAL BUSINESS SCHOOL

Stronger link Weaker link

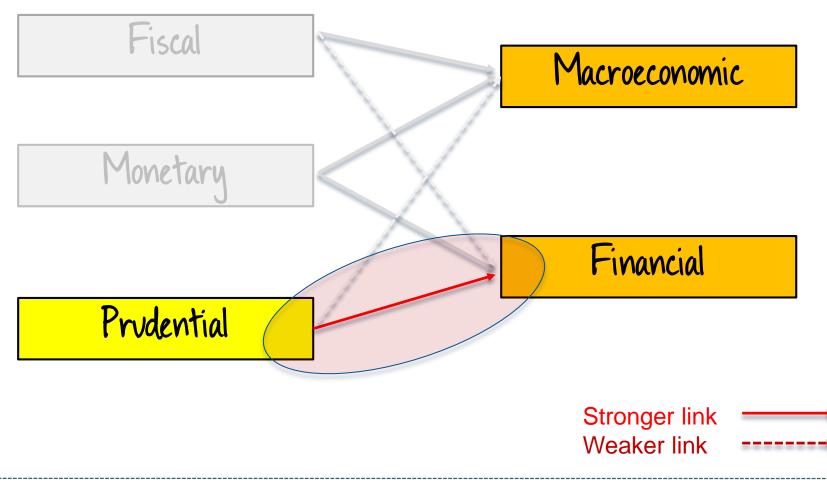
Categories of spillovers

- Monetary Policy
 ⇒ Macroeconomic Real
 - Grisse, Krogstrup, Schmacher: the effective lower bound
 - Stefański: equilibrium real interest rates
 - Faryna, Simola: source of external shocks
- Monetary Policy
 ⇒ Macroeconomic/Nominal
 - Bäurle, Gubler, Känzig: inflation

Categories of spillovers

- Monetary Policy \Rightarrow Financial Prices
 - Jabłecki: carry trades
- Monetary Policy \Rightarrow Financial Quantities
 - Adam, Benecká, Matějů: portfolio allocation
 - Brzorz-Brzezina, Kolasa, Makarski: foreign banks
 - Avdjiev, Takáts: cross-border lending
- Prudential Policy \Rightarrow Financial Quantities
 - Brzorz-Brzezina, Kolasa, Makarski: foreign banks

Prudential policy spillovers



Prudential spillovers: International linkages

- Bankhaus Herstatt: June 1974
 - Germany's 35th largest bank failed
 - Banks had transferred DM to Herstatt in the morning
 - Expected to receive USD in New York later in the day
- European Bank USD short positions 2007-09
 - Financing long-term USD assets w/ short-term debt
 - Wholesale funding from both banks and US MMMFs dried up
 - No lender of last resort in USD!

Prudential spillovers

Global finance requires

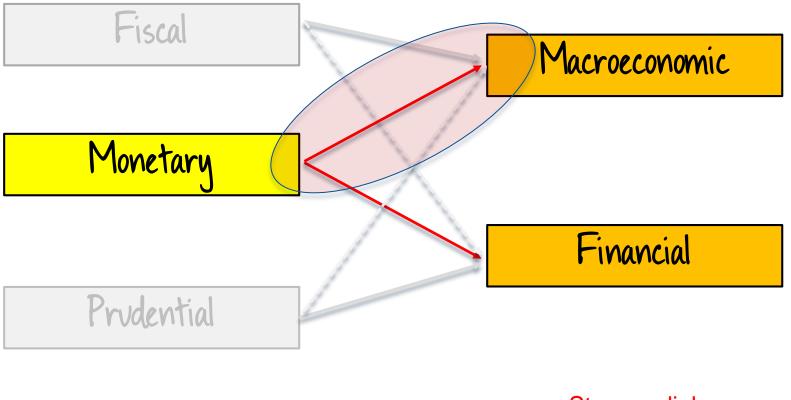
- 1) A common prudential standard
- 2) Cooperation in overseeing safety and soundness
- 3) Notification, cooperation and coordination of dynamic regulatory-policy adjustments
- 4) Cooperation in resolution of systemic intermediaries

This discussion follows Cecchetti & Tucker (2016).

Prudential spillovers

Global finance requires 2) Cooperation in overse induction is essential. 3) Notified Policy in and coordination of guatory-policy adjustments

Monetary policy spillovers



Traditional macroeconomic spillovers

- Impact of monetary policy easing abroad
 - Raises demand for exports
 - Leads to exchange rate appreciation
 - Capital inflows to EMEs
- Overall impact depends on relative strength

Traditional macroeconomic spillovers

- Impact of monetary policy easing abroad
 - Raises demand for exports
 - Leads to exchange rate appreciation
 - Capital inflows to EMEs
- Overall impact depends on relative strength

No one ignores the spillbacks.

Macroeconomic spillovers: an aside

- Country that is:
 - Very open to trade, very liquid capital markets
 - Flexible exchange rate, inflation target
- What if $\pi > \pi^T$?
- Conventional policy response: i fl
- But, with higher interest rate:
 - Carry trade increases
 - Credit boom drives up aggregate demand
 - $AD \widehat{} \Rightarrow \pi \widehat{} ?!!$

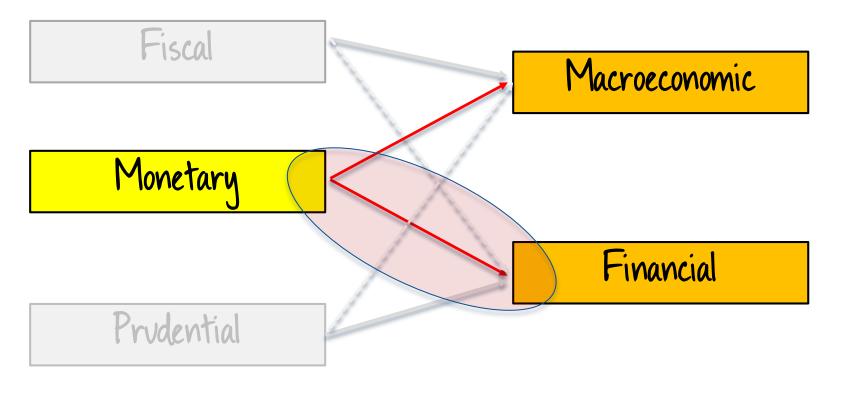
Macro spillovers: Coordination?

Standard result: welfare gains are small

In the absence of strategic complementarities, welfare gains from coordination are small.

(Remember the envelope theorem: At the optimum, first-order change in the state generates second-order welfare losses.)

Monetary policy spillovers





Financial spillovers

- Banks
- Asset prices
- Capital flows

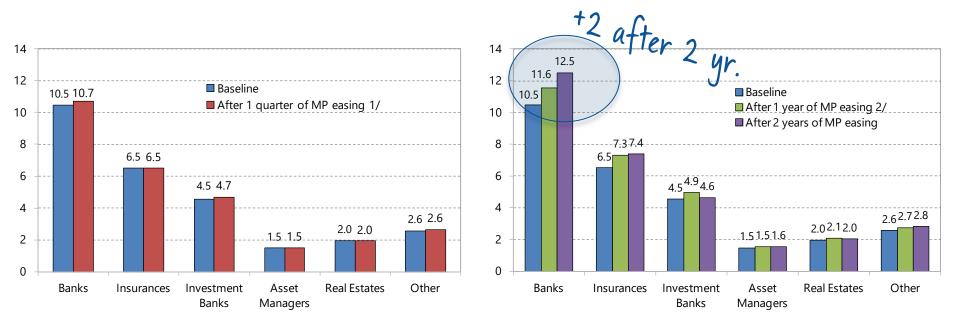
Prolonged easing & financial vulnerability

- Examine impact of policy easing on leverage
- Banks, insurance, real estate, asset managers
- Publicly listed financial firms in 22 countries
- Easing:
 - Decline in moving average of 2-year rate
 - Extended easing: 4+ quarters

Prolonged easing & financial vulnerability

- Examine impact of policy easing on leverage
- Banks, insurance, real estate, asset managers
- Publicly listed financial firms in 22 countries
- Easing:
 - Decline in moving average of 2-year rate
 - Extended easing: 4+ quarters

Impact of own easing on leverage



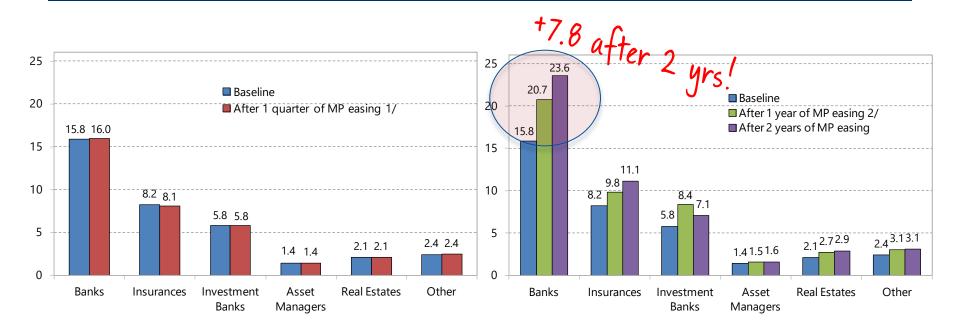
Based on data for a total of 994 publicly listed financial firms 19 advanced economies plus Brazil, Mexico, and South Africa from 1998Q1 to 2014Q4.

Extended policy easing drives leverage vp.

Policy easing \Rightarrow leverage increases

- Policy easing improves
 - Bank net worth
 - Borrower net worth
- Policy easing increases
 - Credit to households and firms
 - Consumer spending
 - Residential and nonresidential investment

Impact of U.S. easing on leverage



This discussion follows Cecchetti, Mancini-Griffoli and Narita (2017).

Impact of U.S. easing on bank leverage

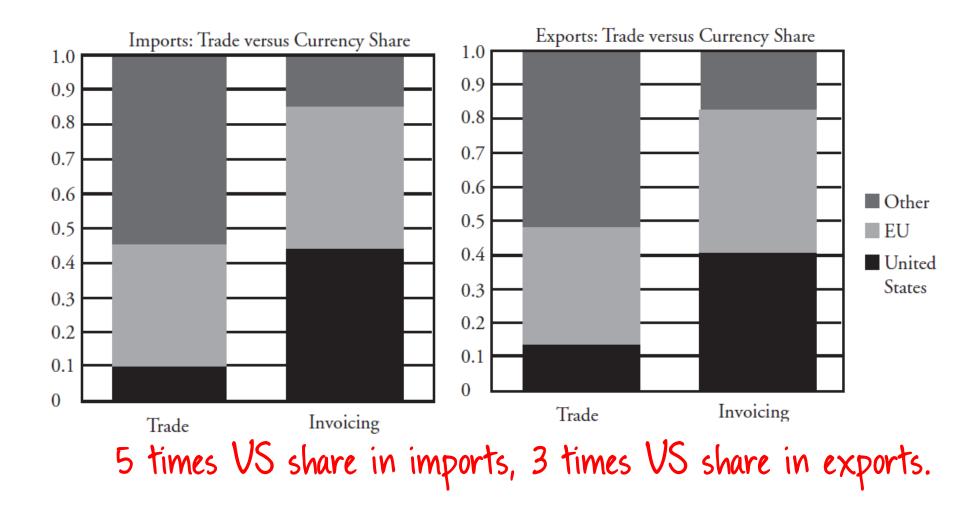
- Own easing increases leverage
- U.S. easing increases leverage elsewhere

Note: U.S. policy has impact on equity, fixed income & fx (Chen, Mancini-Griffoli and Sahay, 2014.)

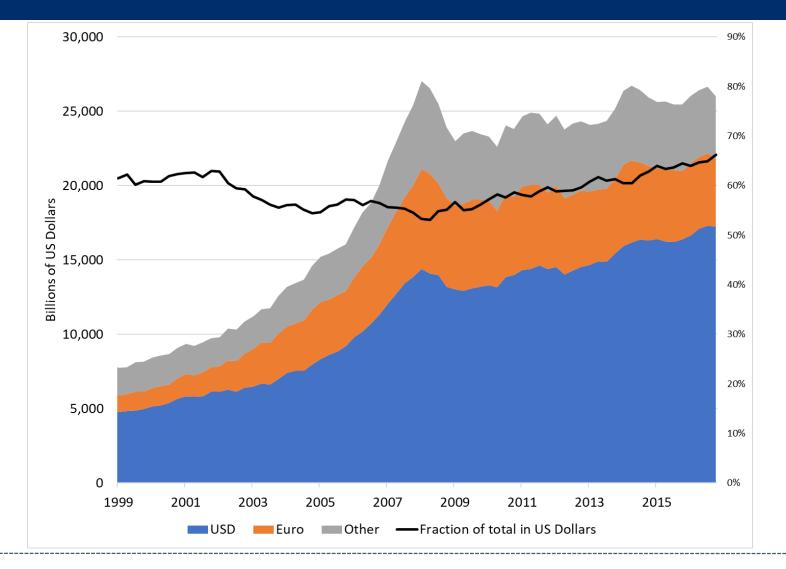
Why is U.S. policy so important?

- Global dollar system
 - Dollar invoicing
 - Commodities priced in dollars
 - Short-term liabilities denominated in dollars
 - Securities denominated in dollars
- U.S. policy constrains policy choices elsewhere

Importance of US dollar invoicing

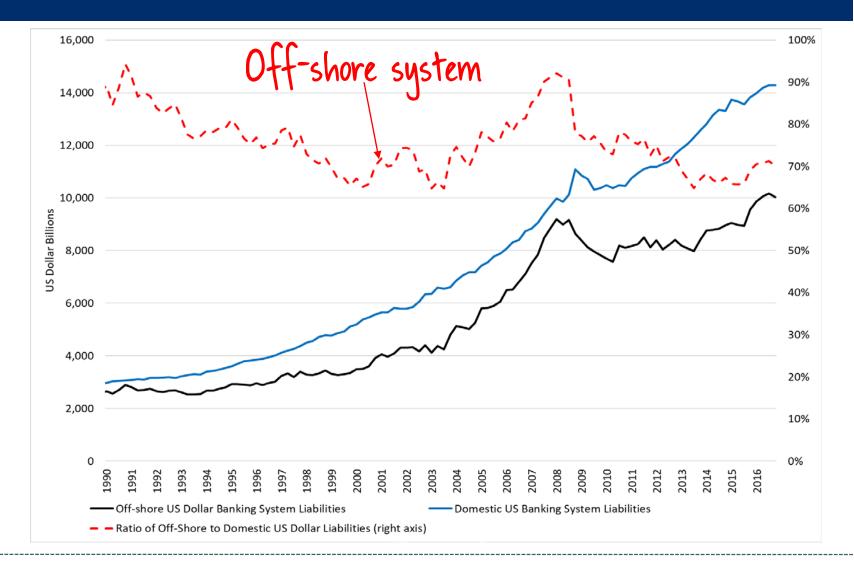


Foreign Currency Bank Claims & Securities



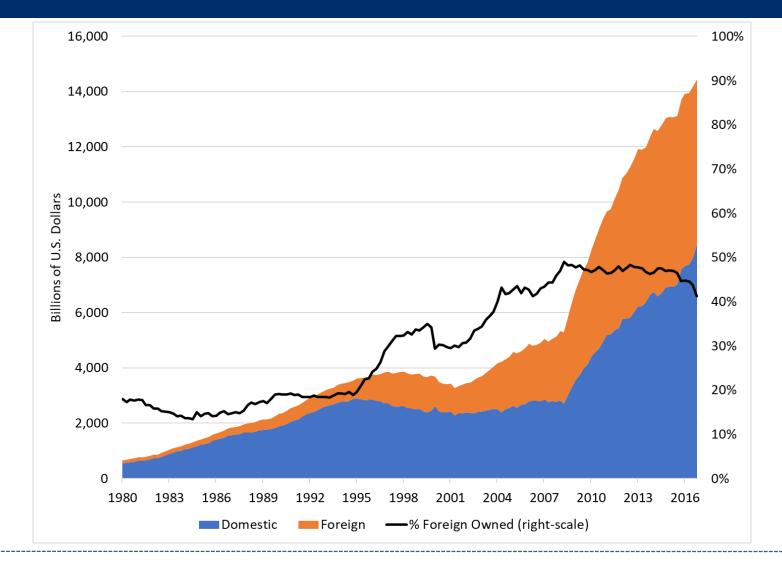
Source: BIS.

VS Dollar-denominated liabilities



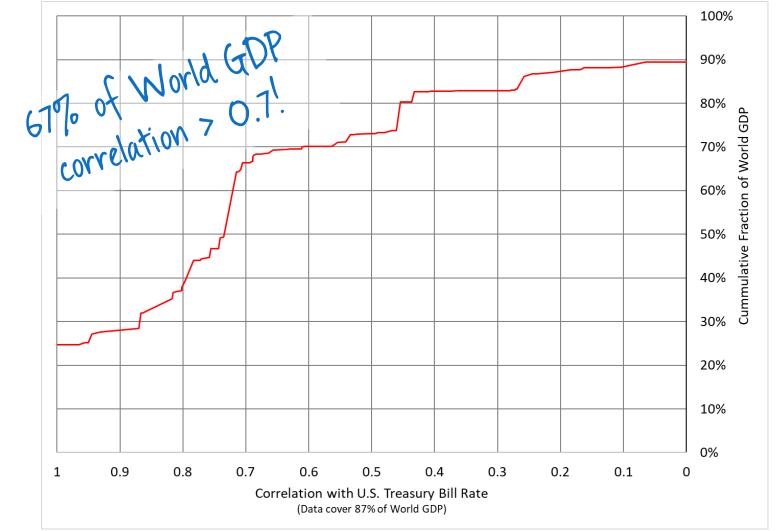
Source: BIS and Board of Governors of the Federal Reserve.

Holdings of U.S. Treasury Securities



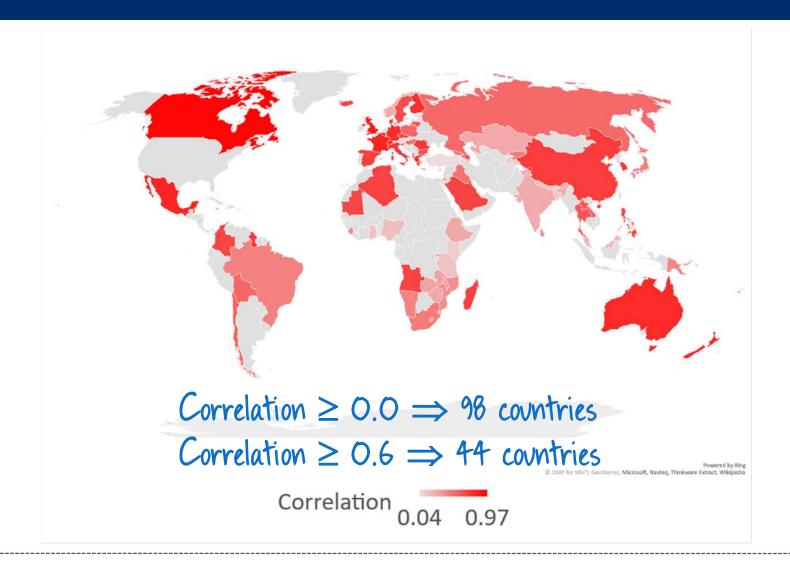
Source: U.S. Treasury International Capital Flows.

Correlation of Short-Term Interest Rates (1990-2016, 112 countries)



Source: IMF International Financial Statistics and World Economic Outlook.

Correlation of Short-Term Interest Rates

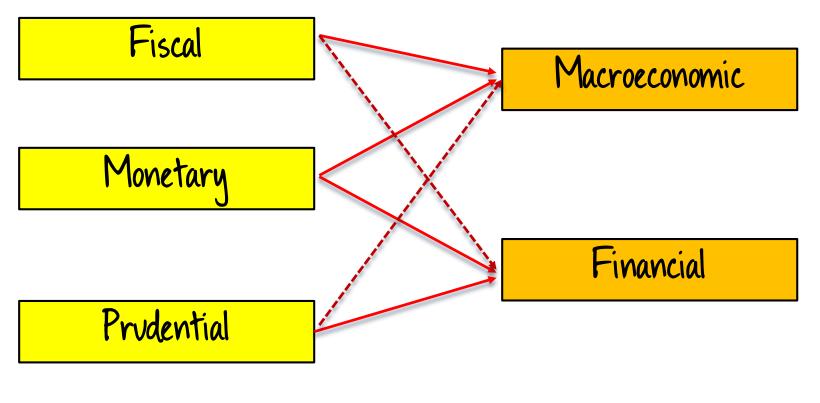


Source: IMF International Financial Statistics and World Economic Outlook.

Why is U.S. policy so important?

- Global dollar system
 - Dollar invoicing
 - Commodities priced in dollars
 - Short-term liabilities denominated in dollars
 - Securities denominated in dollars
- U.S. policy constrains policy choices elsewhere

Types of policy spillovers: What we need to know





BRANDEIS INTERNATIONAL BUSINESS SCHOOL

Spillovers, Spillbacks and the Role of the VS Dollar

Comments by Stephen G Cecchetti

www.moneyandbanking.com

