

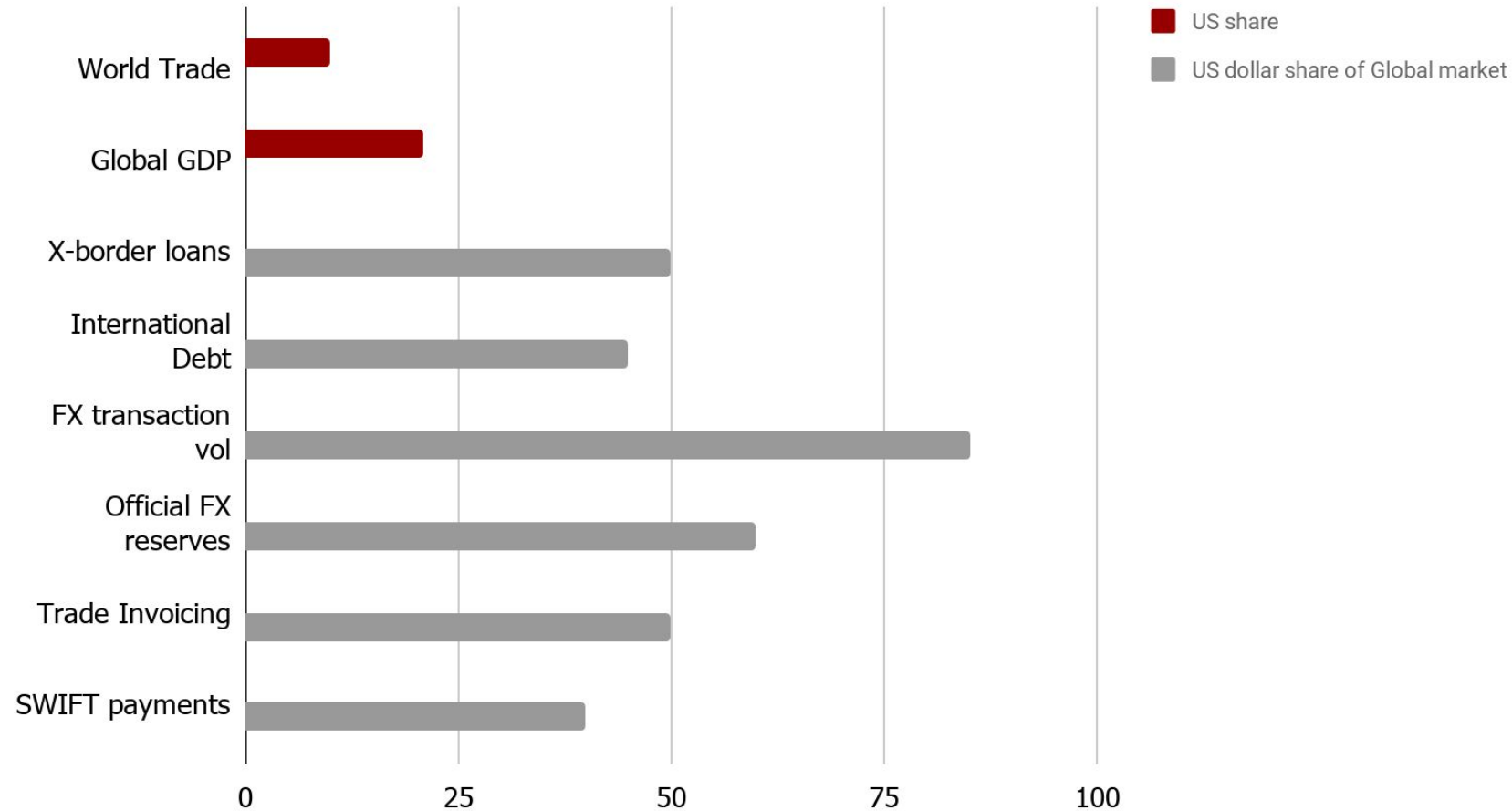


# **U.S. Banks and Global Liquidity**

Introduction by Hanno Lustig (Stanford GSB)

# Dollar Dominance

## International Role of Dollar

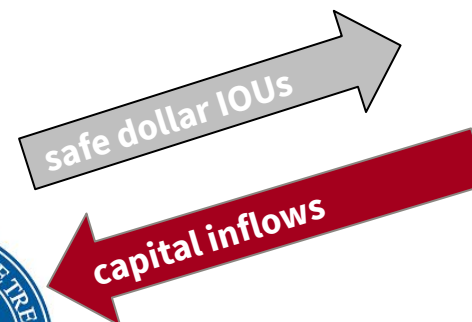
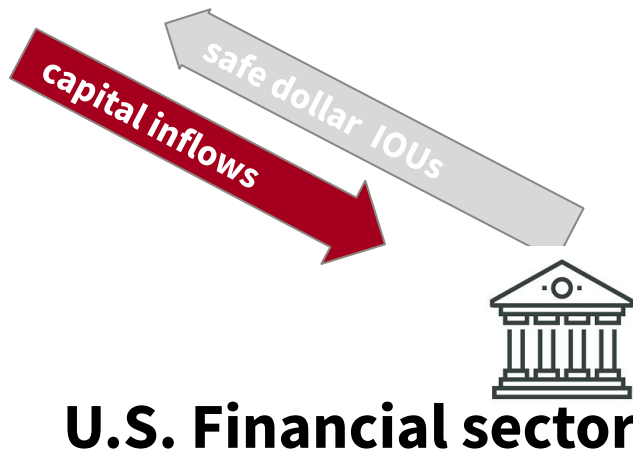


BIS report on Dollar Funding Markets, June 2020.

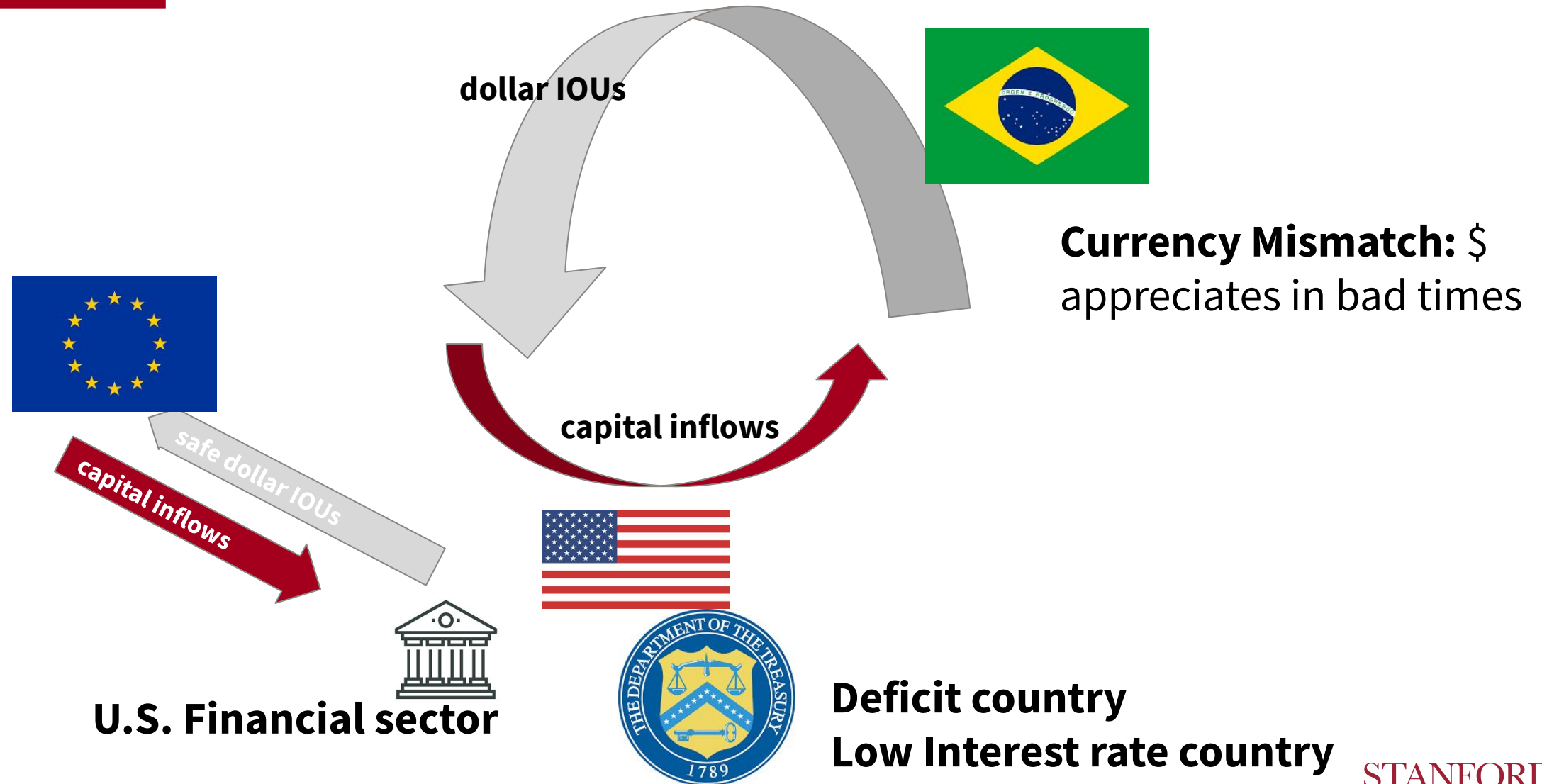
# Manufacturing Dollar Safe Assets

- foreign investors derive convenience yields from **dollar safe assets** (e.g. Treasurys) (see e.g. [Gopinath and Stein, 2018](#); [He, Krishnamurthy, Milbradt, 2019](#); [Kojien and Yogo, 2019](#); [Liu, Schmid and Yaron, 2019](#))
  - dollar exchange rate prices in convenience yields; dollar appreciates in bad times ([Valchev, 2016](#); [Jiang, Krishnamurthy, and Lustig, 2017, 2018](#))
- U.S. financial system creates **substitutes for U.S. Treasurys**
  - banks before GFC: growth in MBS;
  - non-banks after GFC: growth in leveraged loans
- U.S. earns seigniorage revenue from creation of dollar safe assets; invests in risky foreign assets ([Gourinchas and Rey, 2007](#)).
- U.S. is a **low interest rate country**, but runs large and persistent current account **deficits**
- **Foreigners** also borrow in dollars
  - dollar debt dominance (see [Ivashina, Scharfstein and Stein, 2015](#); [Maggiore, Neiman and Schreger, 2020](#))
- **Foreigners** (occasionally) **need lots of funding dollars**:
  - currency mismatch around the world, especially in emerging markets ([Kalemli-Ozcan, Kamil et al 2016](#))

# Exorbitant privilege



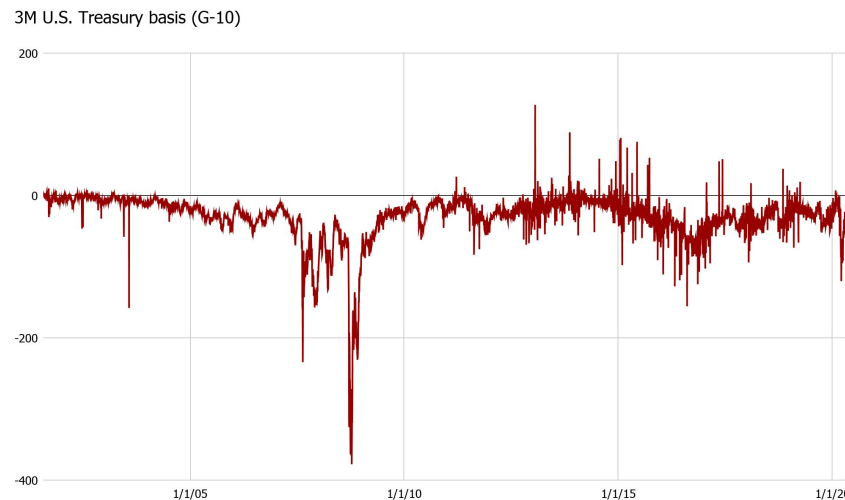
# Currency Mismatch and Dollar Shortages



# Persistent Dollar Funding Shortages

## CIP Deviations

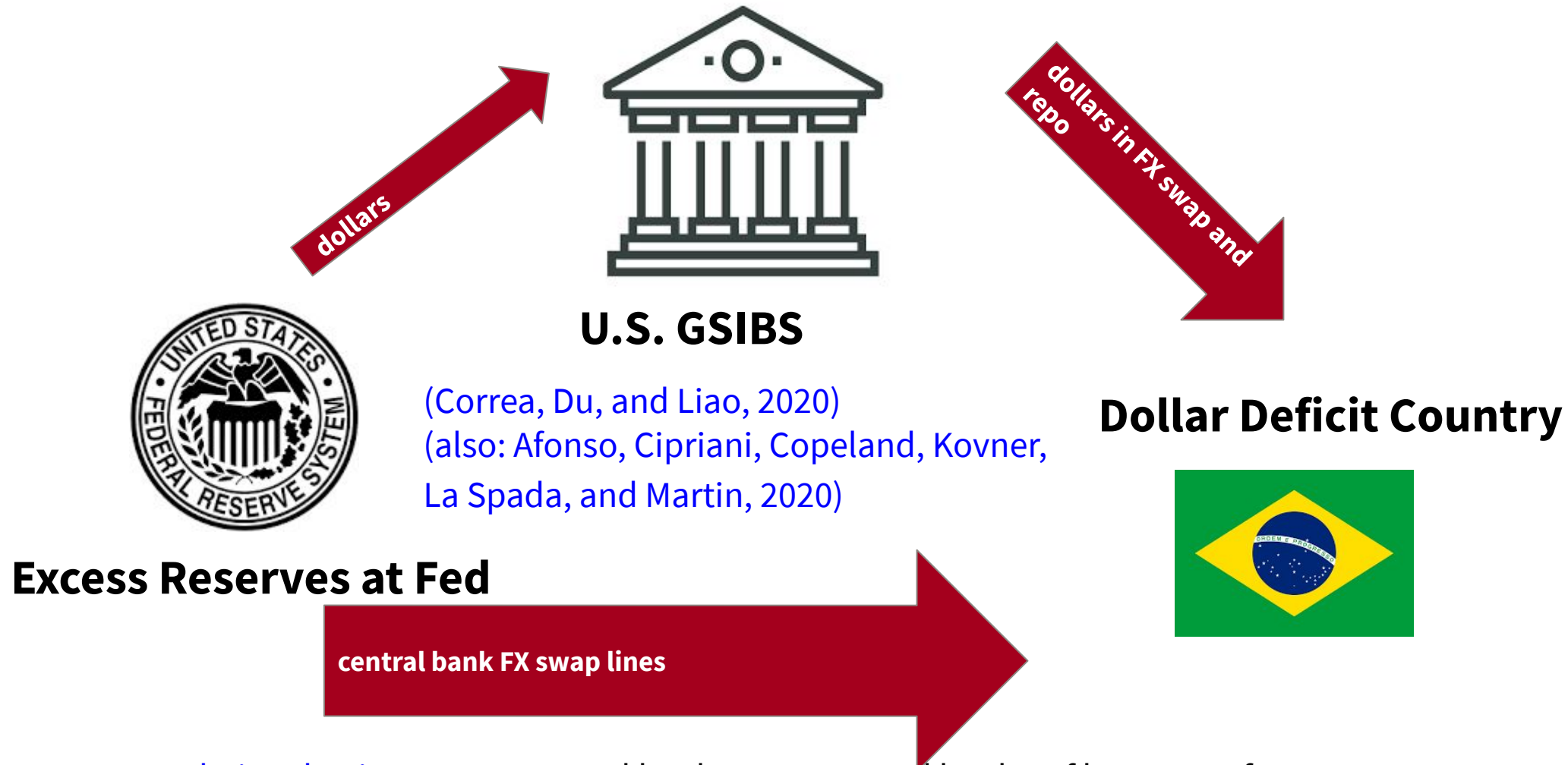
- **Covered Interest Rate Parity deviations** widened since GFC
  - *dollar basis=cash dollar interest rate-synthetic dollar interest rate*
- **synthetic** dollar interest rate in FX markets > **cash** dollar interest rate in US Money and Treasury Markets
  - **foreign investor:** convenience yield on cash dollar instruments
  - **foreign borrower:** dollar funding shortage [Brazilian firm cannot tap U.S. money market; borrows at synthetic dollar interest rates]



Ivashina, Scharfstein and Stein, 2015  
Du and Verdelhan, 2018; Du, Im and Schreger, 2019;  
Liao, 2020. Jiang, Krishnamurthy, and Lustig, 2017, 2018



# GSIBS Intermediating Global Dollar Shortages



see [Bahaj and Reis, 2020](#) on central bank FX swaps: Fed lender of last resort for foreign banks ([Gourinchas, Rey and Sauzet, 2019](#)).

# Follow-up Questions

1. **Shrinking Fed balance sheet in 2019:** Yes, Fed was shrinking balance sheet in Sept, 2019; but still \$3.8 trillion; more than 4X pre-2008. Excess reserves are being hoarded? (see also [Copeland, Duffie and Yang, 2020](#))



# Follow-up Questions

1. **Shrinking Fed balance sheet in 2019**
2. **Is the Fed the world's central bank? permanent swap lines:** standing FX swap lines 6+9 countries ? Is that desirable? Or does that create moral hazard? (market participants engineer \$ funding that is vulnerable to \$ shortages) Does this put an upper bound on CIP deviations? Should Fed be lender of last resort for foreign banks?

# Follow-up Questions

1. **Shrinking Fed balance sheet in 2019**
2. **Is the Fed the world's central bank? permanent swap lines**
3. **Right Size of Fed balance sheet:** is that (partly) why the Fed now needs a much larger balance sheet?

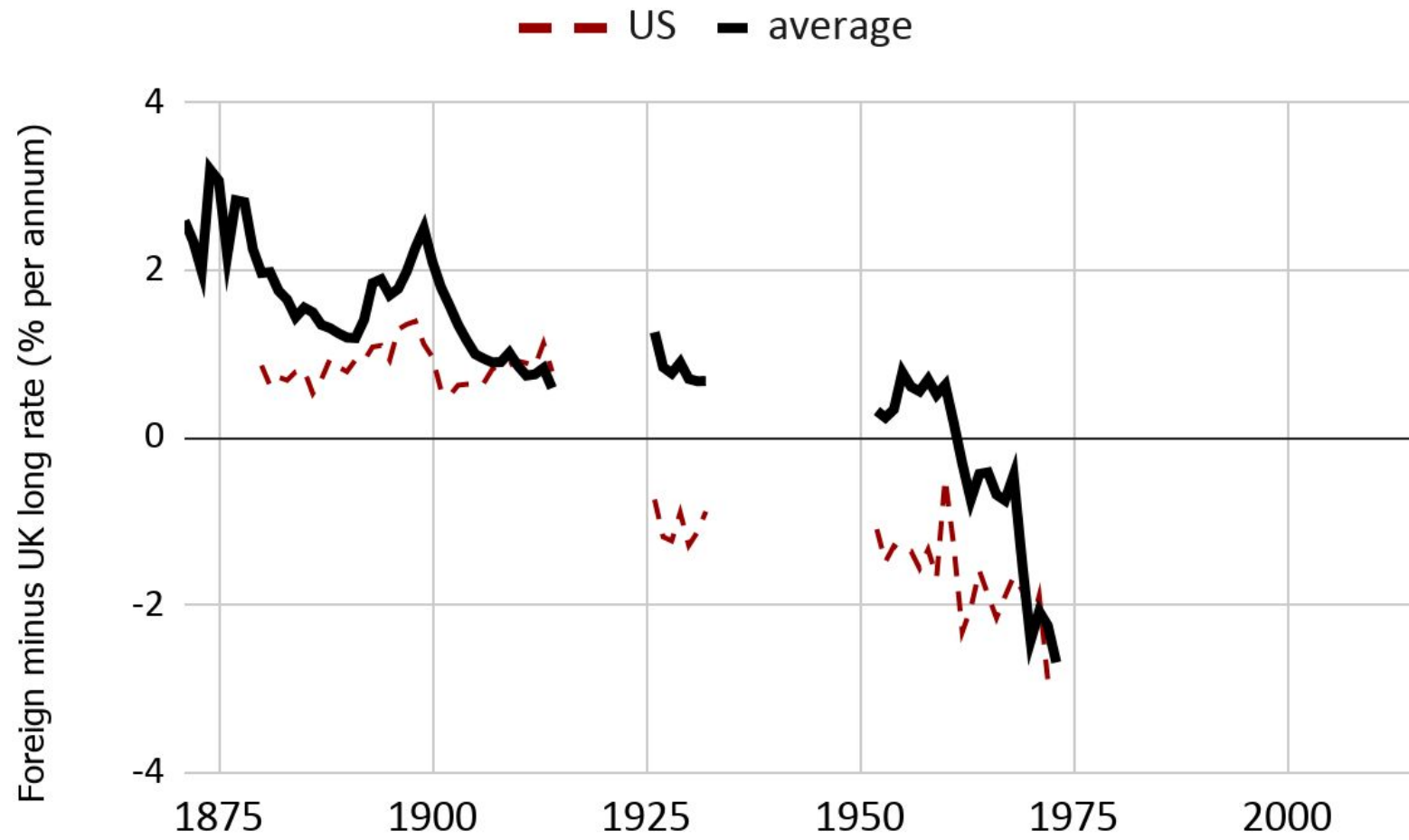
# Follow-up Questions

1. **Shrinking Fed balance sheet in 2019**
2. **Is the Fed the world's central bank? permanent swap lines**
3. **Right Size of Fed balance sheet**
4. **GSIBS during COVID?** Between March-May 2020, with balance sheet \$6.9 trillion, still needed (at peak) \$0.4 trillion in FX swaps from Fed. What about GSIBS?

# Follow-up Questions

1. **Shrinking Fed balance sheet in 2019**
2. **Is the Fed the world's central bank? permanent swap lines**
3. **Right Size of Fed balance sheet**
4. **GSIBS during COVID?**
5. **Design Flaws:** But maybe we need more balanced IFS Architecture : excessive dollar leverage, currency mismatch, Triffin dilemma. Perhaps we should move to a more balanced, less dollar-centric system?

# US-UK Treasury Basis



Source: [JORDÀ-SCHULARICK-TAYLOR MACROHISTORY DATABASE](#)