

# Dollar Erosion: Understanding the Loss of Reserve Currency Status

*Hoover Economic Policy Working Group*

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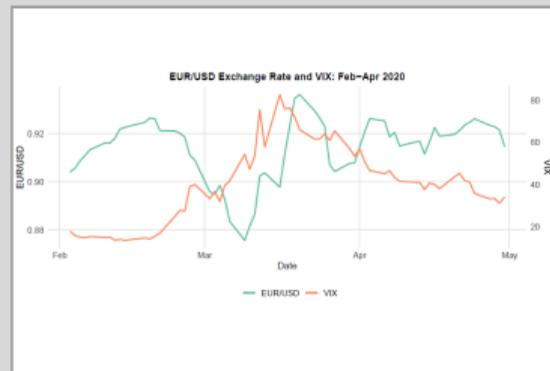
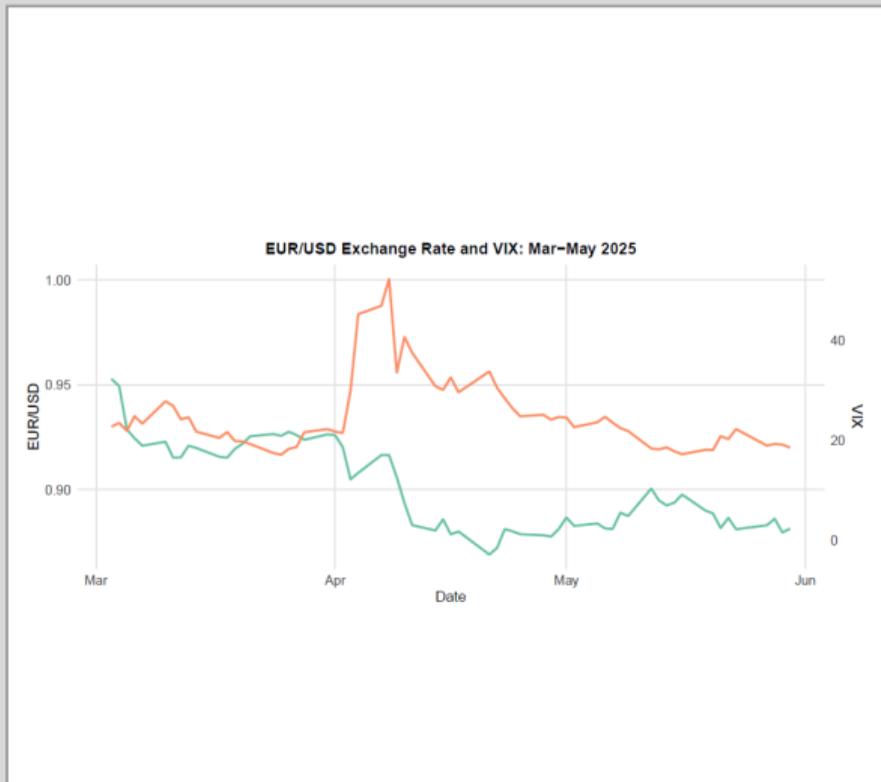
## 1. Data:

- Shift in correlations: behavior of the dollar and Treasurys after the tariff shock

## 2. Model and calibration:

- How much has the dollar been appreciated because of dollar reserve asset demand?
- How much will the dollar depreciate if dollar reserve asset demand disappears?
- What is the wealth loss to the U.S. in this last case?

# Flight to dollar?

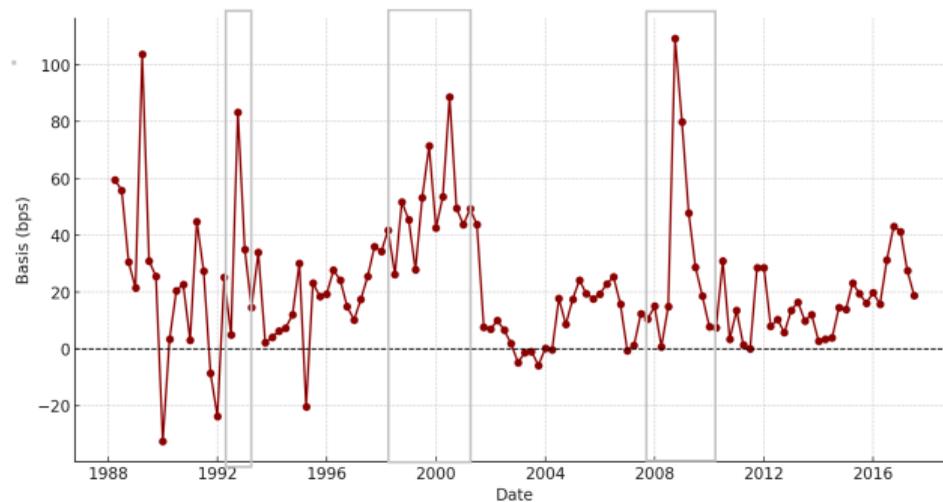


## Flight to Treasuries? 10 year Euro-USD yield differences vs Euro/USD exchange rate



- Back-of-envelope: 10-year yield differences widen by 50 bps; LR UIP for 10 years  $\Rightarrow$  dollar should appreciate at least 5%
- Dollar depreciates 6.5%

# US Treasury vs G10 1-year Government Bond CIP wedge



▪  $\hat{y}_{G10,1year} = y_{G10,1year} + \log F_{G10,1year} - \log X_{G10,1year} \Rightarrow \text{CIP-wedge} = \hat{y}_{G10,1year} - y_{\$Tbill,1year}$

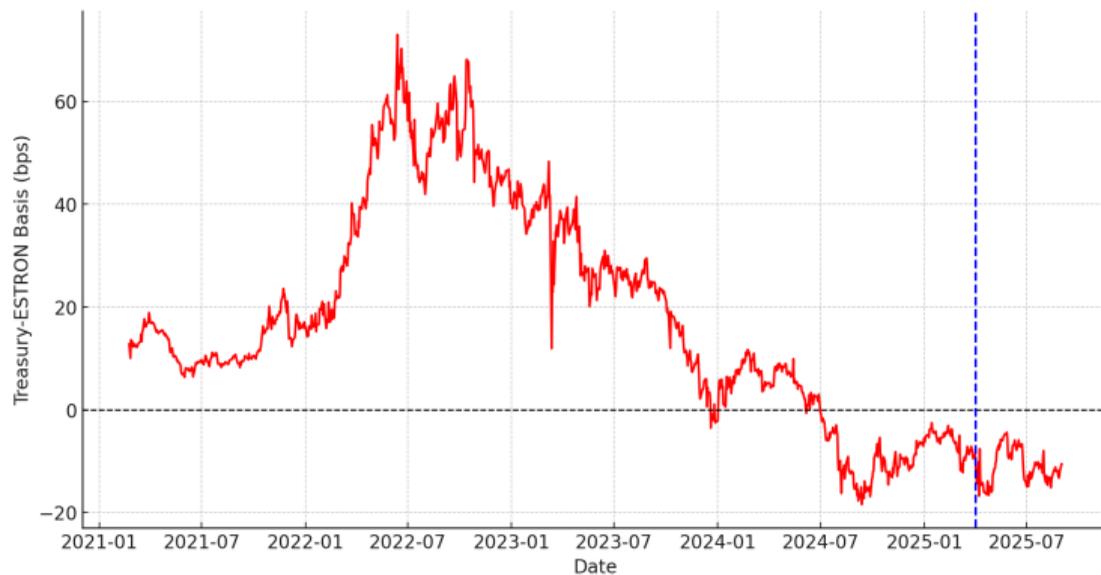
Note: sign flipped relative to Du, Im, Schreger (2018) and Jiang, Krishnamurthy, Lustig (2021)

## Flight away from Treasury: 1-year Government Bond Basis



- spread = 1-year Bund FX swapped to dollars – US 1 year Treasury

## Euro/USD Safe Asset Basis



- Premium on short-term Treasury relative to Euro short-term safe asset rate (Euro ESTR)
- **spread** = Euro ESTR FX swapped to dollars – US 1 year Treasury

# 1-year Euro, DKK, Yen Asset Basis



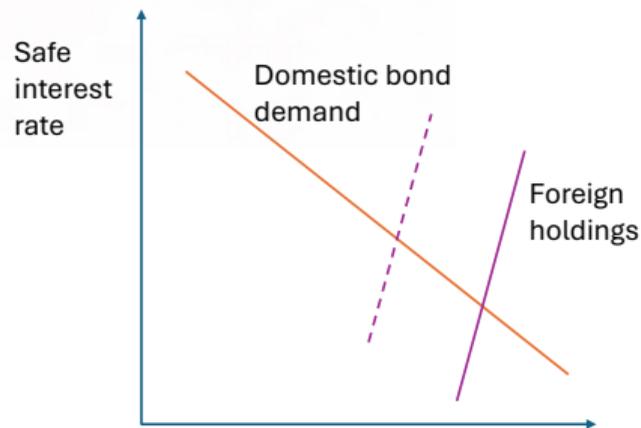
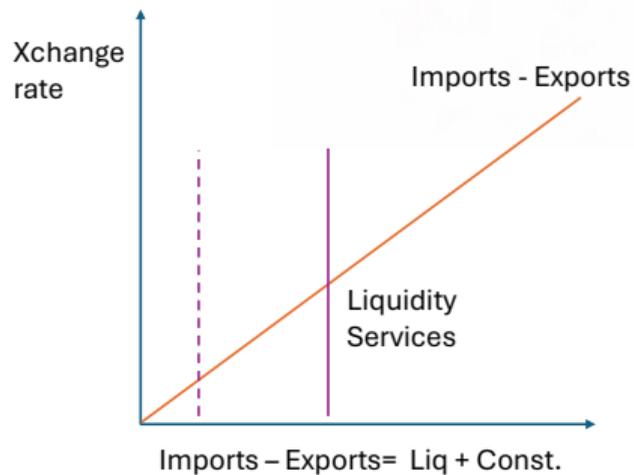
- $v_t^{(1)}$  = Foreign short-term swapped to dollars – short-term US\$ repo

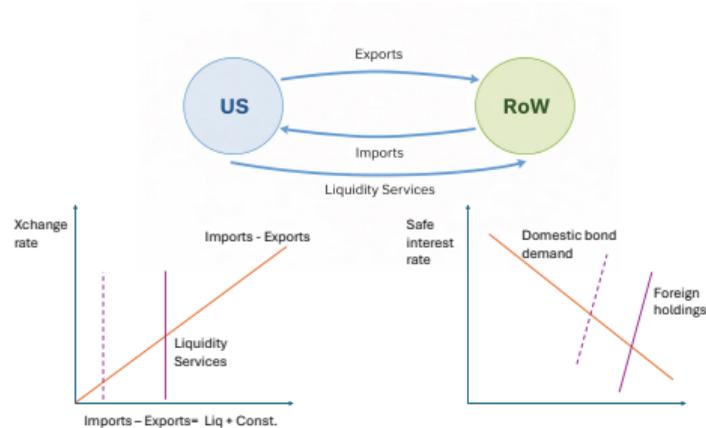
- 1 Dollar depreciated after April 2 – not appreciated!
- 2 Flight away from Treasurys
- 3 The richness of dollar short-term safe assets relative to Euro safe assets has fallen over the last 5 years to near zero over the last 6 months.
- 4 Also fallen relative to other currency safe assets, but less so

- Model where U.S. exports “liquidity services” to the rest of the world
- What happens if demand for those services go to zero?

$$x_t = \sum_{j=0}^9 \mathbb{E}_t[r_{t+j}^{US} - r_{t+j}^{EU}] + \sum_{j=0}^9 \mathbb{E}_t[cy_{t+j}] - \sum_{j=0}^9 \mathbb{E}_t[rp_{t+j}] + \mathbb{E}_t[x_{t+10}].$$

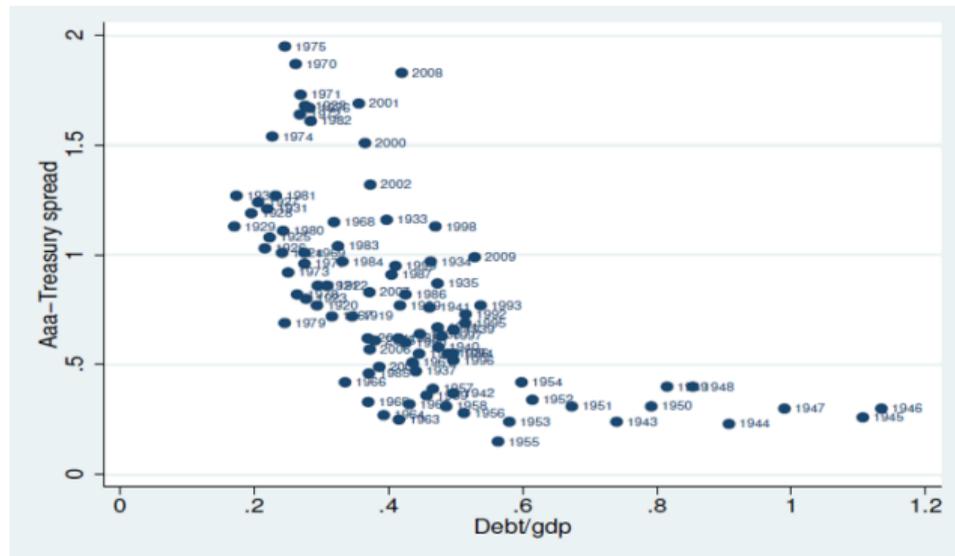
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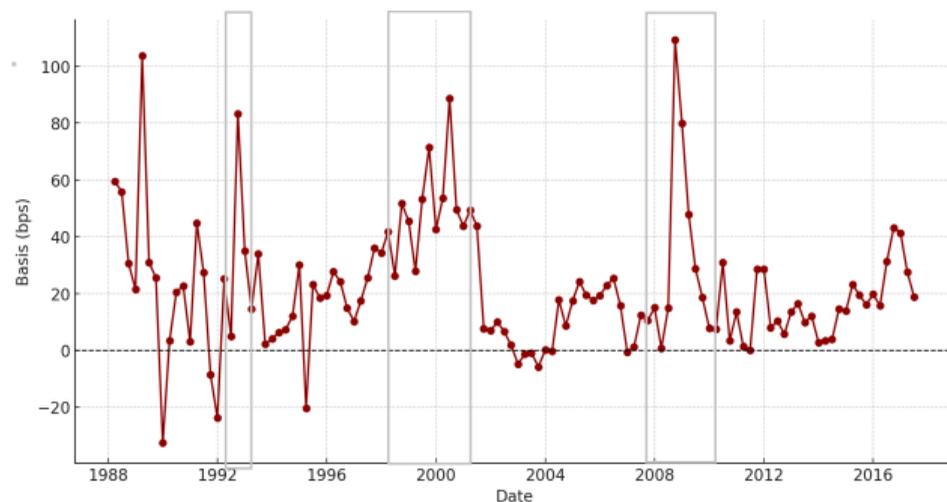


- U.S. safe bond/GDP ratio (2016) 150%
- Share held by foreign investors 30%
- Convenience yield on dollar safe assets: 2%
- Export, import elasticities: trade literature 0.3
- Bond demand curve elasticity:  
Krishnamurthy-Vissing-Jorgensen (JPE 2012)

# Bond demand curve elasticity: Krishnamurthy-Vissing-Jorgensen (JPE 2012)



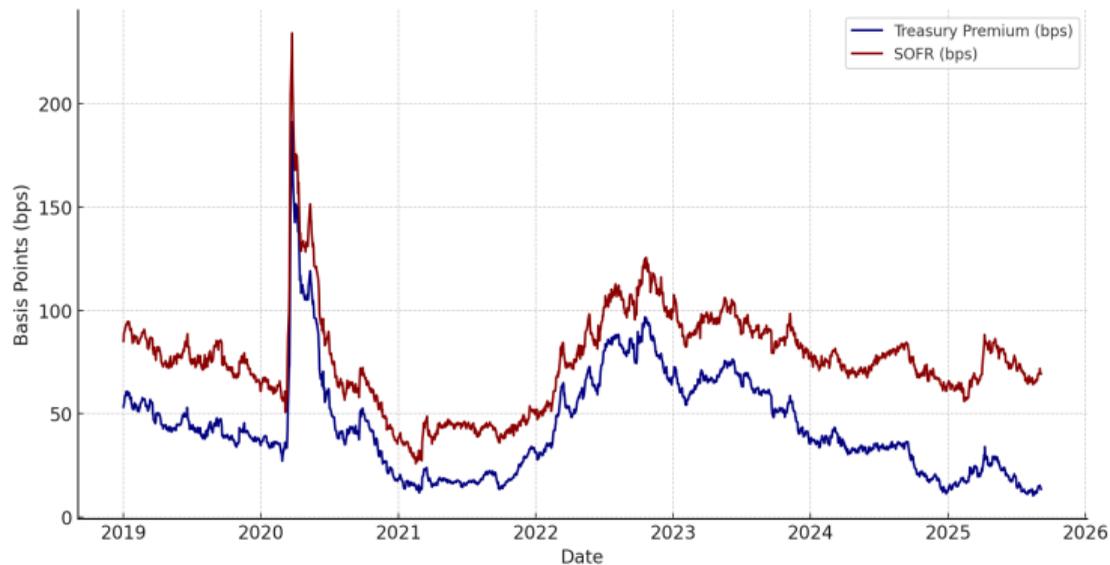
# US Treasury vs G10 1-year Government Bond CIP wedge



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- Jiang, Krishnamurthy, Lustig (2021):  
UIP-wedge =  $M \times$  CIP-wedge; exchange rate moves with UIP-wedge to estimate  $M$ .
- Estimate foreign safe asset investors were willing to forgo around 2% per annum to own dollar safe assets

Note: sign flipped relative to Du, Im, Schreger (2018) and Jiang, Krishnamurthy, Lustig (2021)

## Dollar Safe Asset Spreads, 10 year maturity Treasury (blue), short-term repo (red)



- $\text{spread} = [\text{investment grade corporate yield} - \text{CDS}] - \text{safe rate}$

## Convenience Lost

	Baseline	Convenience Loss	Difference
Debt Held Abroad/GDP (%)	45.00	0.00	-45.00
Seigniorage/GDP (%)	0.90	0.00	-0.90
Trade Balance/GDP (%)	-0.90	0.00	0.90
Import/GDP (%)	5.37	5.11	-0.26
Export/GDP (%)	4.47	5.11	0.65
H Goods Consumed by H (%)	95.53	94.89	-0.65
F Goods Consumed by F (%)	94.16	94.89	0.73
Log Dollar FX (%)	7.62	0.00	-7.62
Conv Yield (%)	2.00	1.08	-0.92
Dollar Interest Rate (%)	0.53	1.45	0.92

Note: Baseline steady state is 2016; Convenience loss is a future date debt held abroad goes to zero.

$$x_t = \sum_{j=0}^9 \mathbb{E}_t[r_{t+j}^{US} - r_{t+j}^{EU}] + \sum_{j=0}^9 \mathbb{E}_t[cy_{t+j}] - \sum_{j=0}^9 \mathbb{E}_t[rp_{t+j}] + \mathbb{E}_t[x_{t+10}].$$

- Comparison across steady states, in one case where foreign demand for US safe assets falls (... and nothing else changes)
- Real exchange rate
- $\eta = 0.3$  is a long-run trade elasticity

- Seignorage of 45% of GDP of dollar bonds  $\times$  2% convenience yield
- Loss of 0.90% of GDP.
- Asset values should reflect part of this in franchise values of safe asset issuers (banks) and value of collateral assets (housing)
- PV of future tax burden on US households falls

- Loss of 0.90% of GDP.
- Loss on a slice of GDP, a risky growing stream
- Current AQR discount rate model is 1.7% risk free plus equity risk premium of 1.6%, and growth of 1.8%
- Assume beta on GDP is 2/3 (Jiang et. al., 2024):

$$\frac{\textit{seigniorage}}{r - g} = \frac{0.90\%}{0.97\%} = 93\%$$

or roughly \$29 trillion.

- April 2, and events leading up to it, reflect loss of dollar convenience/reserve demand and not direct impact of tariffs
- Exchange rate effects are present but modest in the calibrated exercise
- Interest rate and valuation effects are large