

# DEFCON 33

"Shaping the Future of Money...  
with AI, Crypto and Gold"

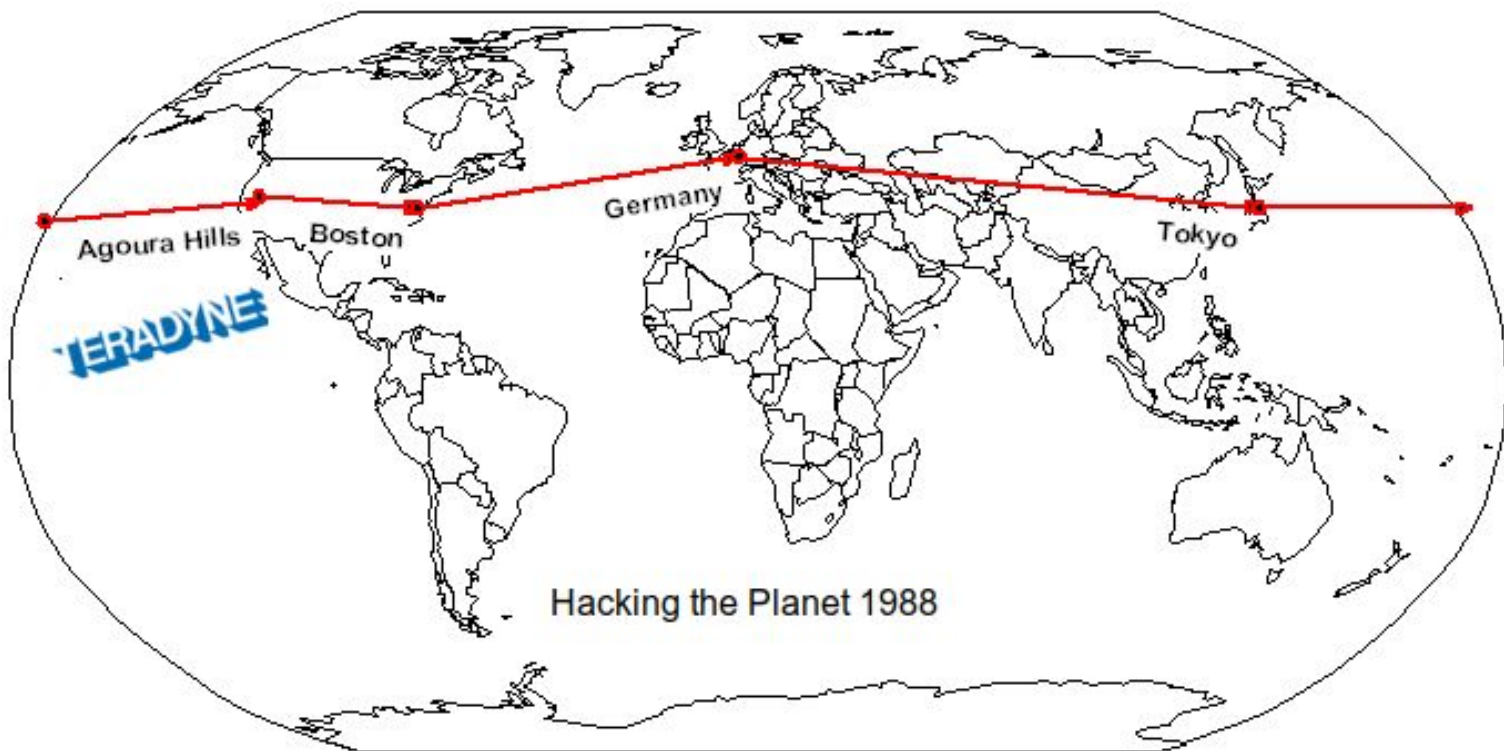
A Disruptive Venture

# Presentation Overview

- Introduction
- History
- Gold Token White Paper
- Token Platform (SDT)
- Results
- Certain Things Are Likely

# Hacking The Planet (1988)

The original intro for my DEFCON 13 presentation  
but I swapped it out at the last minute



# Why Listen To Me?

Synopsis: A stablecoin proposal for State governments, including some history, economics, gold depositories, Bitcoin reserves, pending legislation, impact of “vibe coding”.

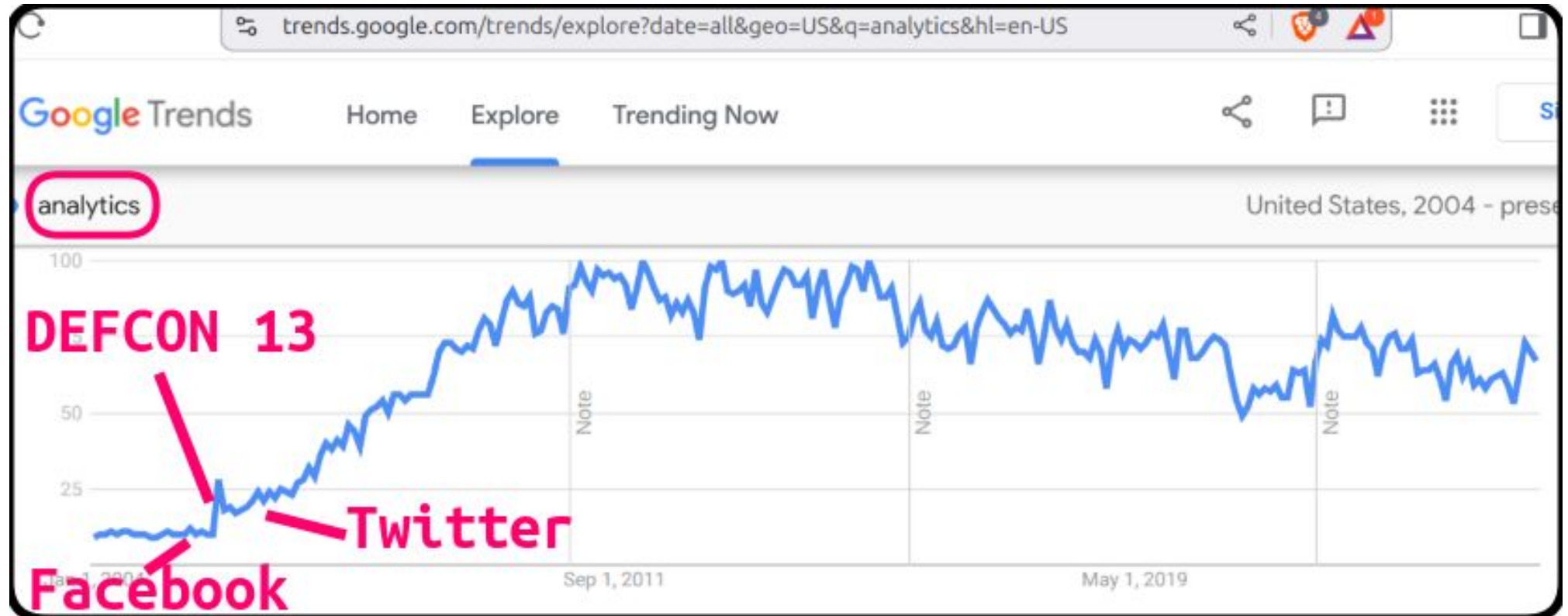
- 35 Years Of Software Development
- 7 Tech Startups
- Digital Money Trust (Grabbe) in 1994
- 3 DEFCON Presentations On Predictive Analytics, 2005-2007
- Sila Money Stablecoin, 2018

# After My Defcon 13 Presentation (2005)

Facebook began in 2004

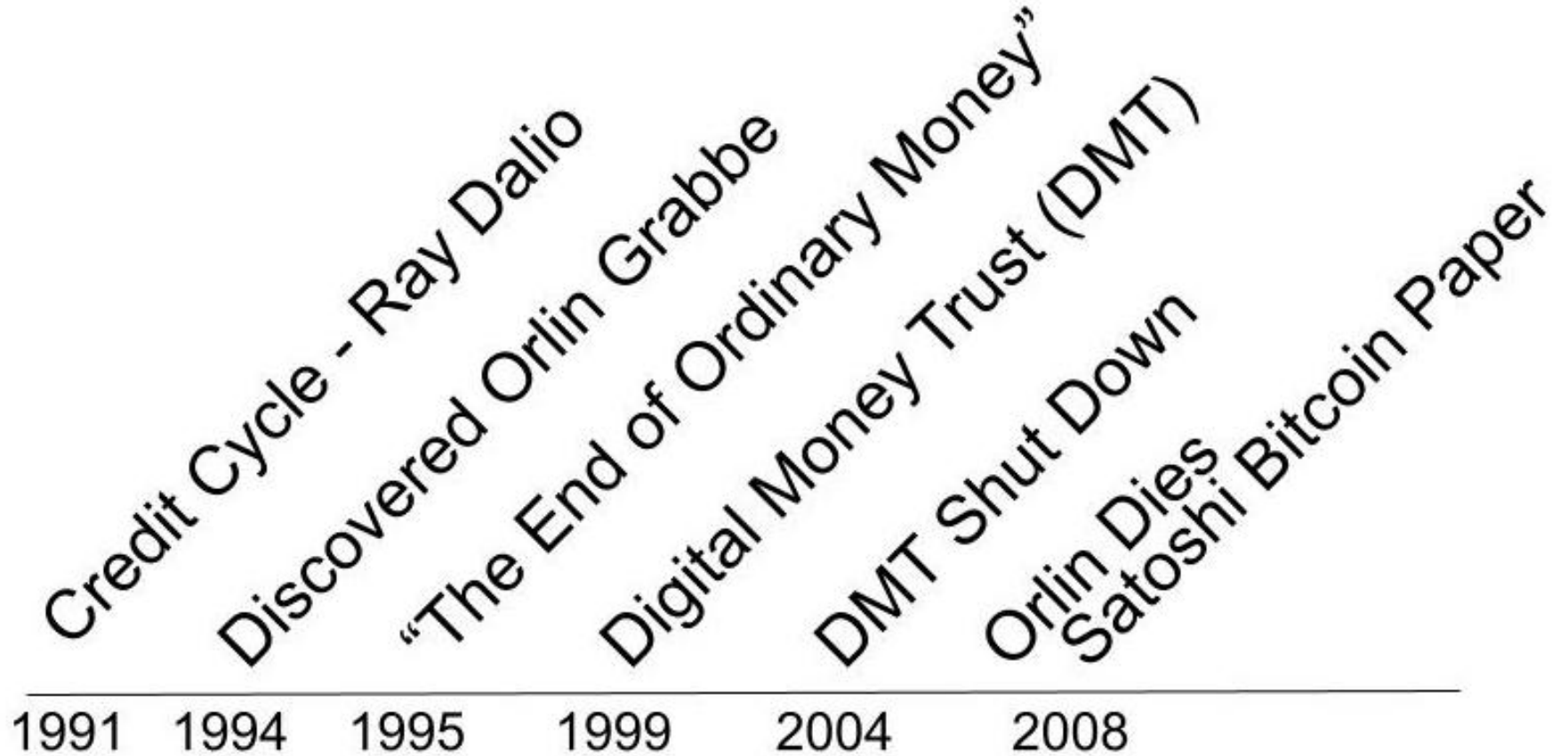
Twitter began in 2006

Analytics took off



# History

# Money Timeline



# Texas Gold Bullion Depository

Many folks won't recognize what the [Texas Gold Bullion Repository](#) is but I did, thanks to [Orlin Grabbe](#).

So I've expected this since 2018...



The screenshot shows a web browser window with the address bar displaying the URL: [thegatewaypundit.com/2023/04/texas-lawmakers-introduce-bills-to-create-digital-currency-backed-by-gold/](https://thegatewaypundit.com/2023/04/texas-lawmakers-introduce-bills-to-create-digital-currency-backed-by-gold/). The browser's tab bar shows several tabs, including 'Arlo Web Port...', 'query — AWS...', and a partially visible 'w...'. The article title is 'Texas Lawmakers Introduce Bills to Create Digital Currency Backed by Gold'. Below the title, it says 'By Jim Hoft' with a pencil icon, the date 'Apr. 7, 2023 8:30 am' with a calendar icon, and '331 Comments' with a speech bubble icon. At the bottom, there is a row of social media sharing buttons: Truth, Gettr, Gab, Parler, Telegram, Share (Facebook), Tweet (Twitter), a comment bubble, an email icon, and a print icon.

thegatewaypundit.com/2023/04/texas-lawmakers-introduce-bills-to-create-digital-currency-backed-by-gold/

w... Arlo Web Port... query — AWS...

## Texas Lawmakers Introduce Bills to Create Digital Currency Backed by Gold

By Jim Hoft Apr. 7, 2023 8:30 am 331 Comments

Truth Gettr Gab Parler Telegram Share Tweet



# Gold Token White Paper

First mailing in April 2023

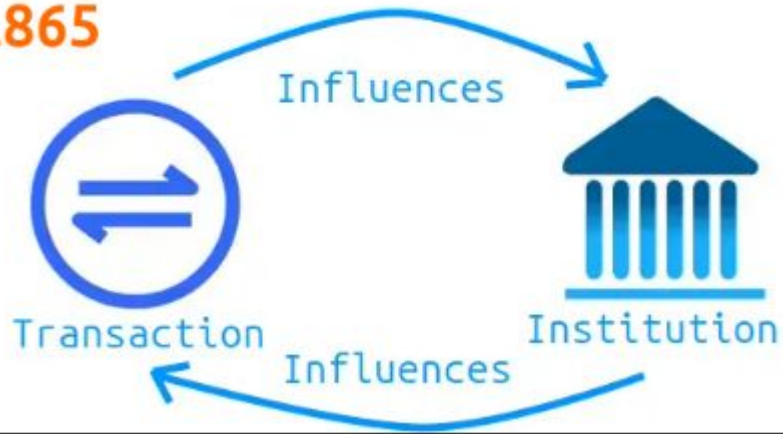
# White Paper Overview

- Original paper created with ChatGPT
- A comprehensive (I hope) national strategy
- Mostly about WHY, not HOW
- Based on Transaction Theory / Law of Demeter

Law Of Demeter is almost the opposite of Globalization. An object should only interact with its immediate dependencies.

# Transaction Theory

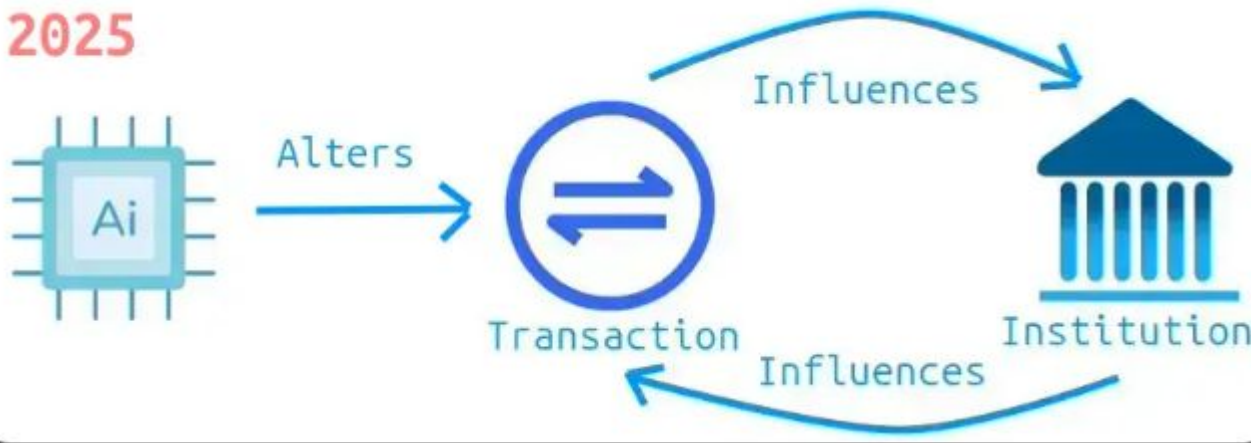
1865



*"the role which transaction costs do, and should, play in the fashioning of the institutions" - Ronald Coase*

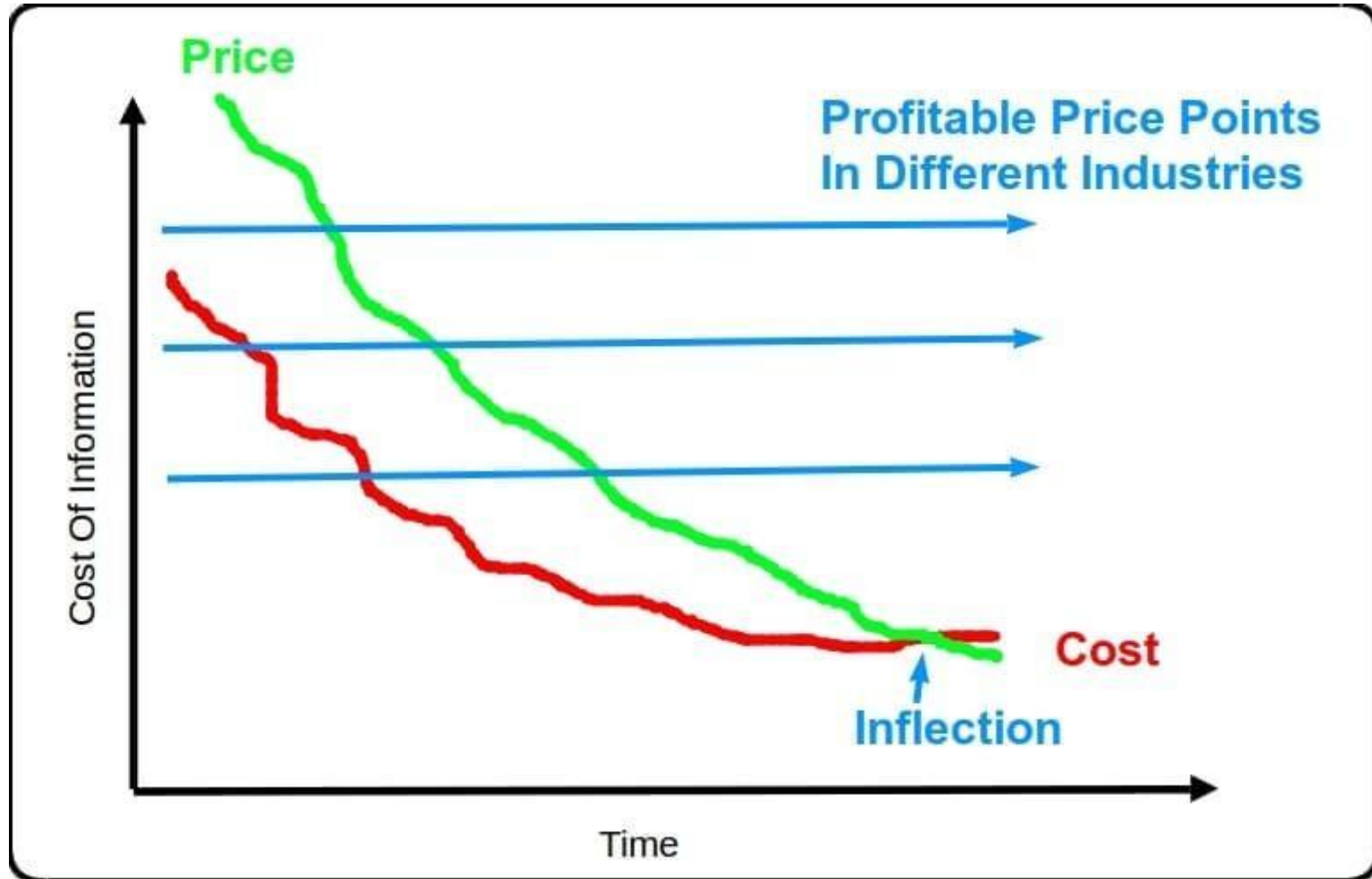
What was problematic in 1865...

2025



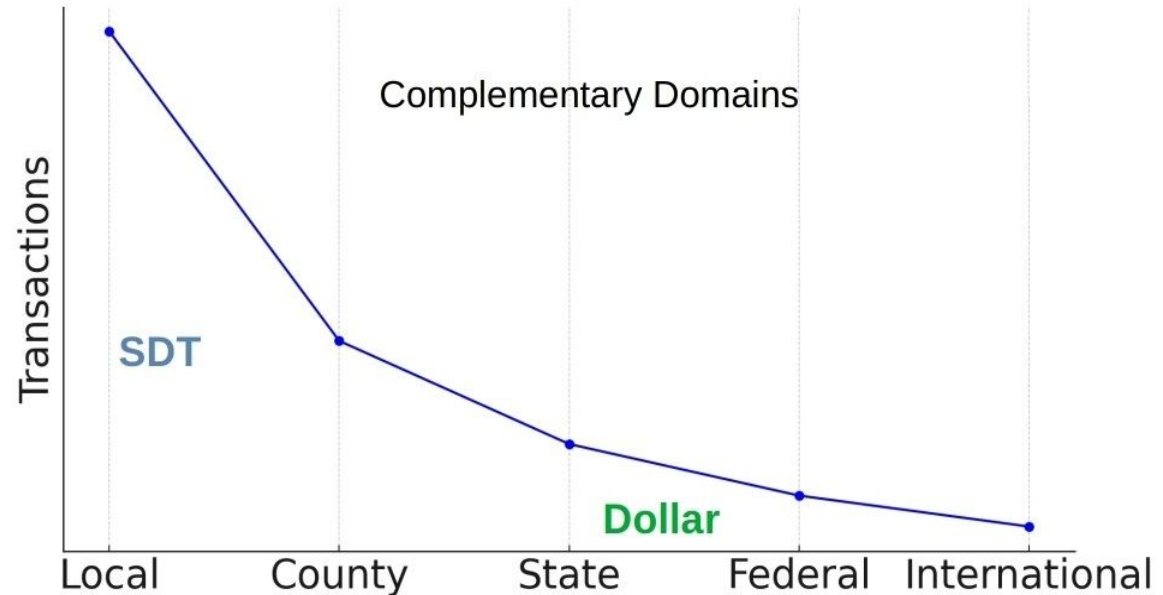
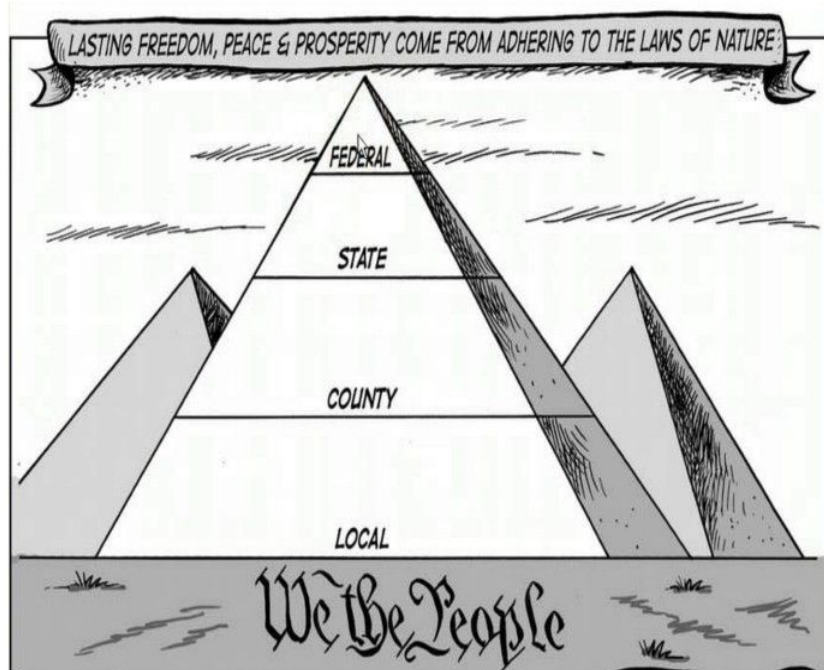
is an opportunity in 2025

# Falling Transaction Costs Create Opportunity



# Parasocial Money

**Parasocial** relationships are one-sided, where one party expends effort on an oblivious recipient, like a celebrity and their fans. Or today's dollar and American taxpayers.

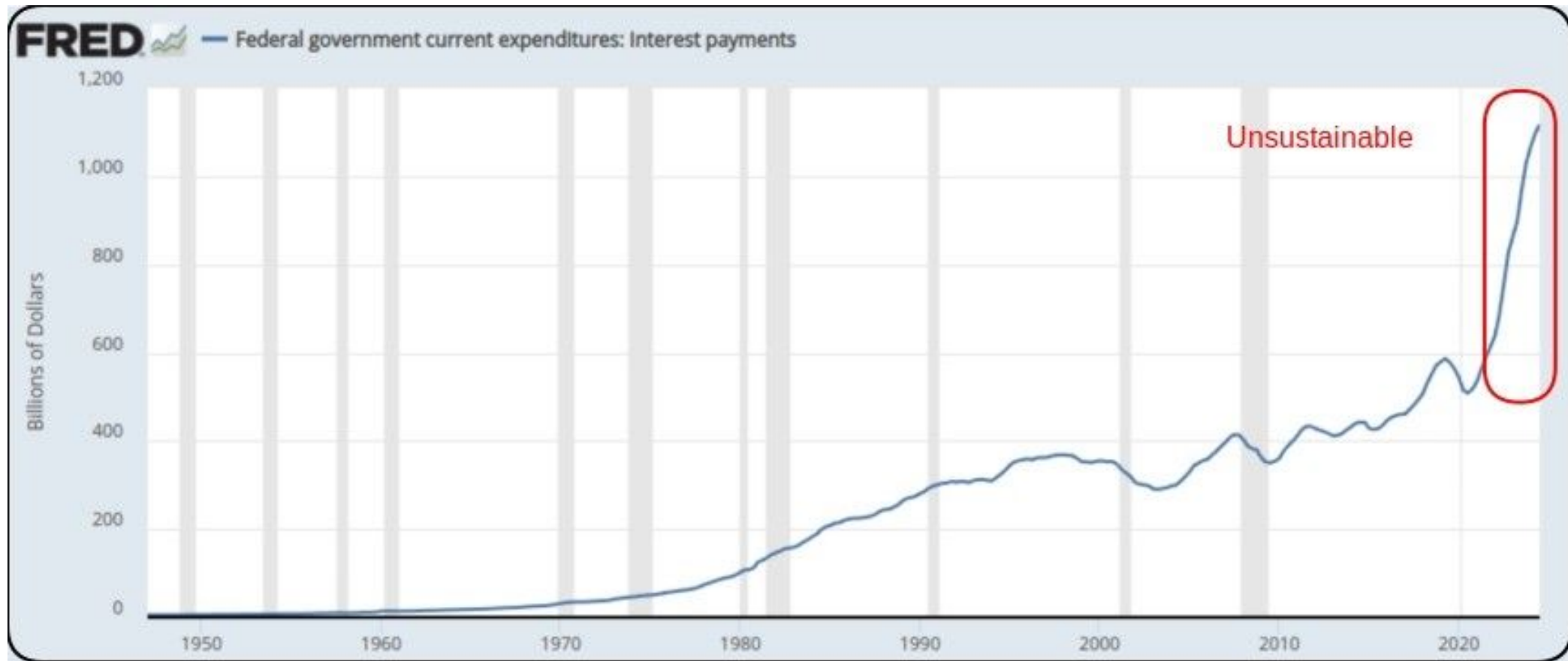


# Hegemonic Empires Last 95 Years

United States is past the average expiration date

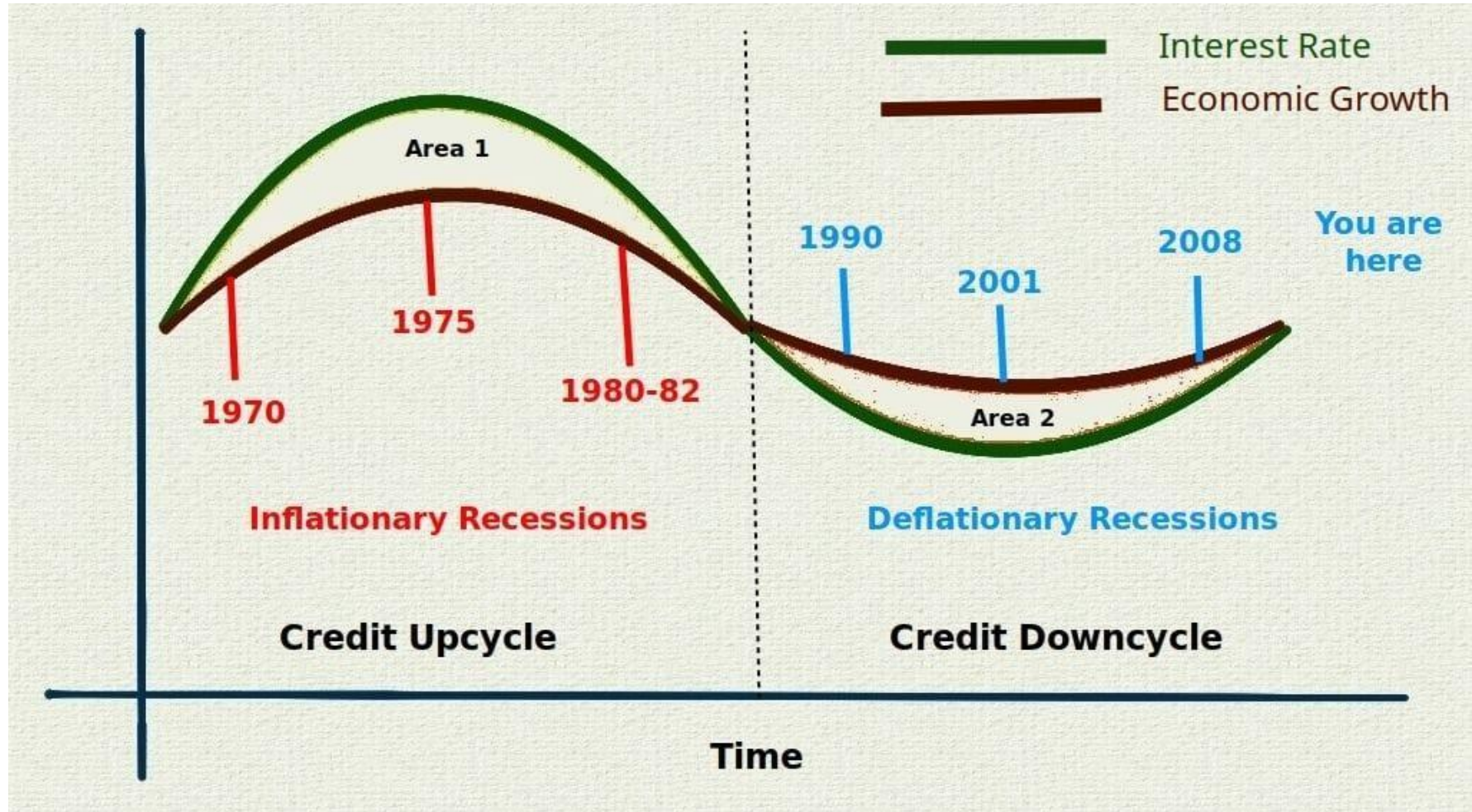
Country	Dates	Duration	Currency
Portugal	1450 to 1530	80 years	Real
Spain	1530 to 1640	110 years	Escudo
Netherlands	1640 to 1720	80 years	Guilder
France	1720 to 1815	95 years	Franc
Great Britain	1815 to 1920	105 years	Pound
United States	1920 to 2025	105 years	Dollar

# Unsustainable Federal Interest Payments





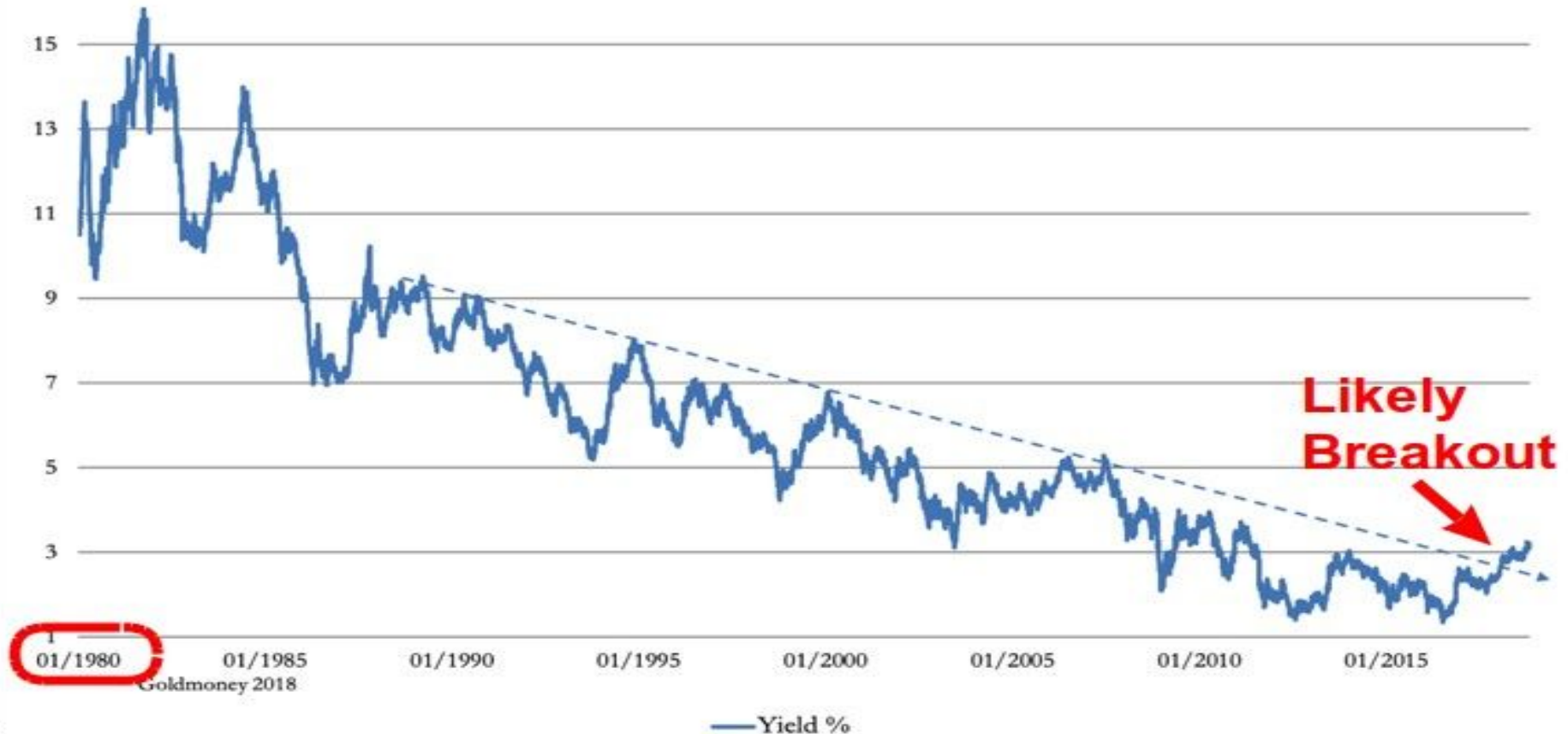
# Full Credit Cycle / Ray Dalio (60 Years)



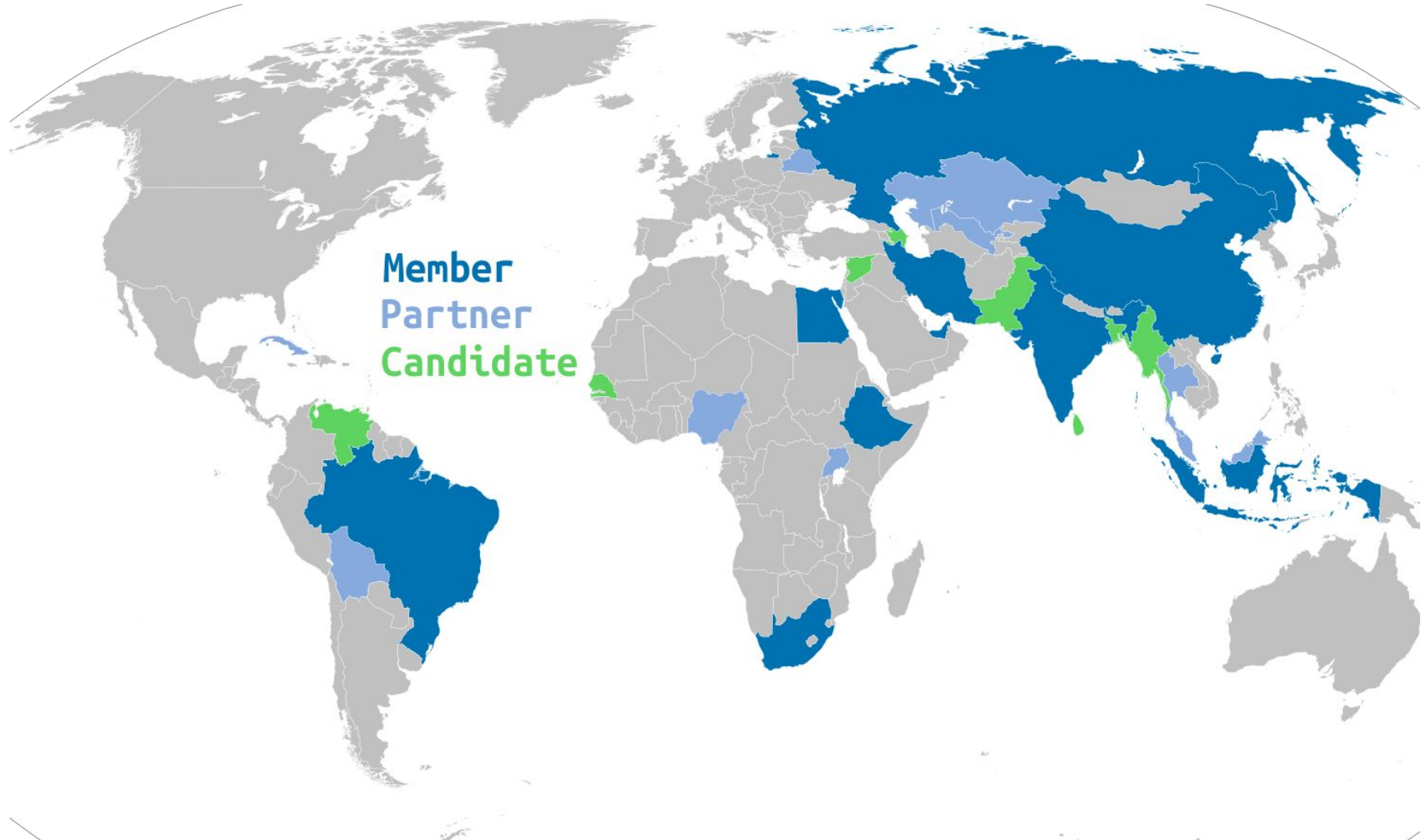


# Half Credit Cycle, Interest Rates Likely To Rise

US 10-yr Treasury yield %



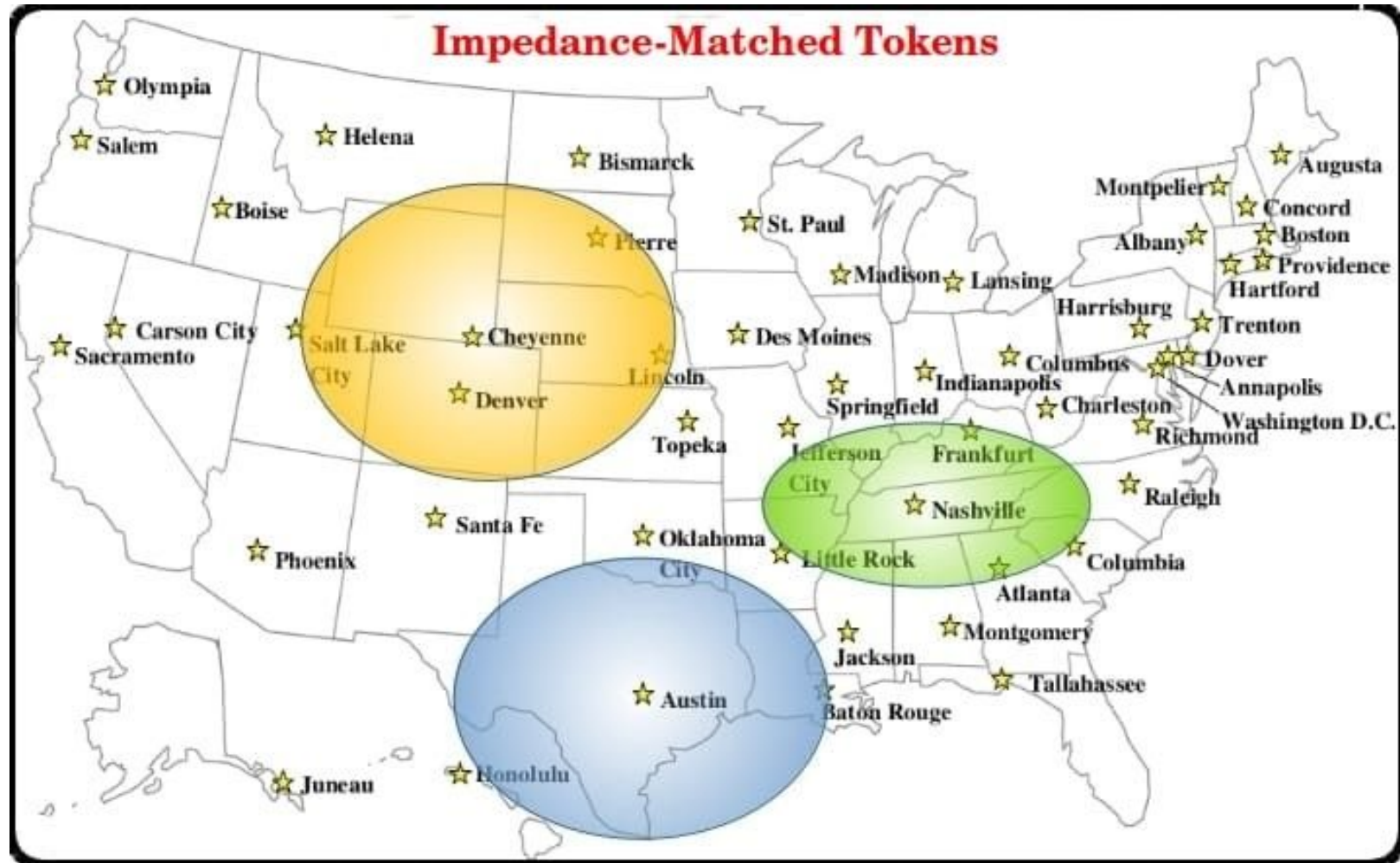
# BRICS De-Dollarization Risk



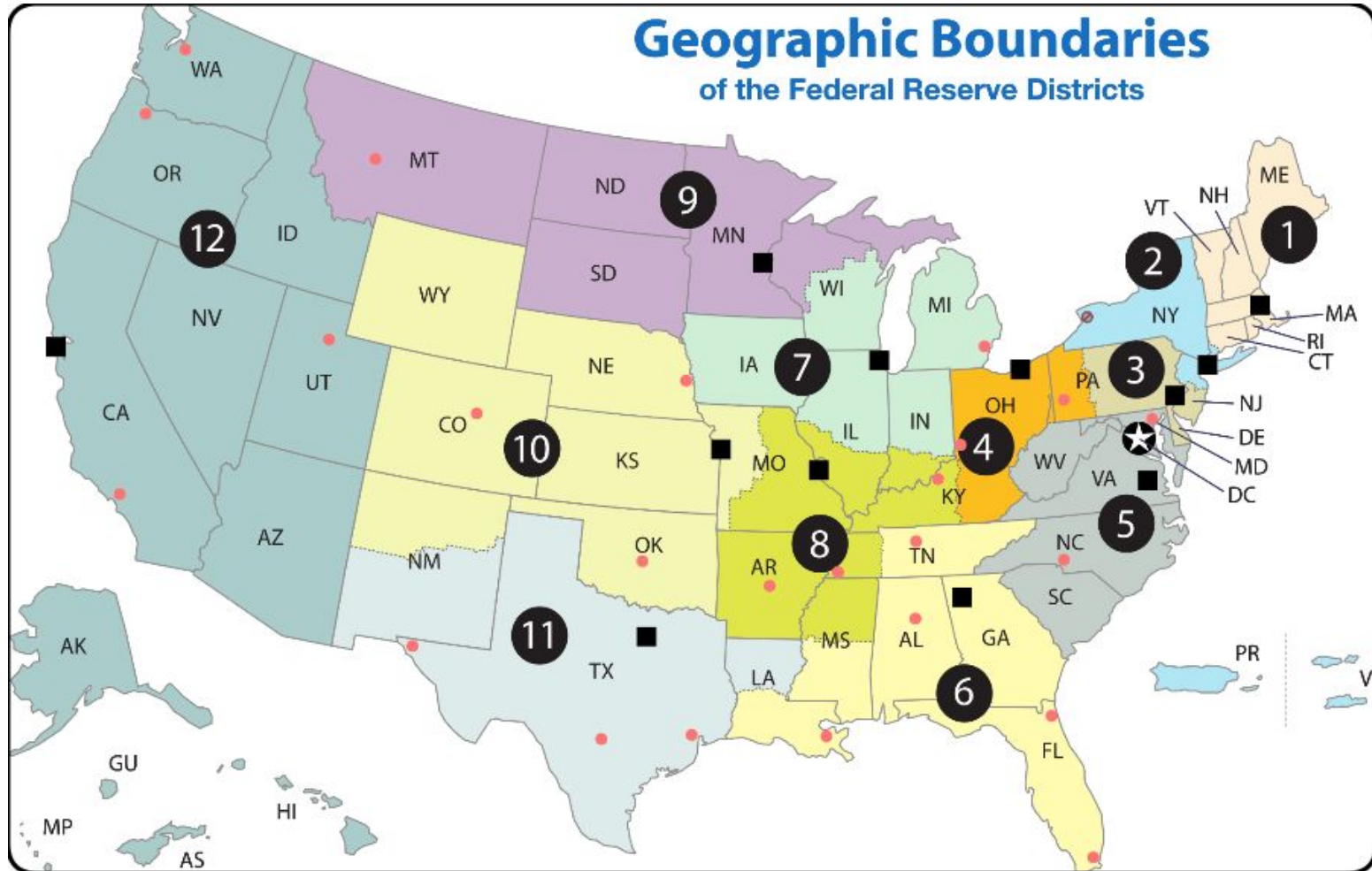
# Token Platform

(SDT)

# Impedance-matched Tokens

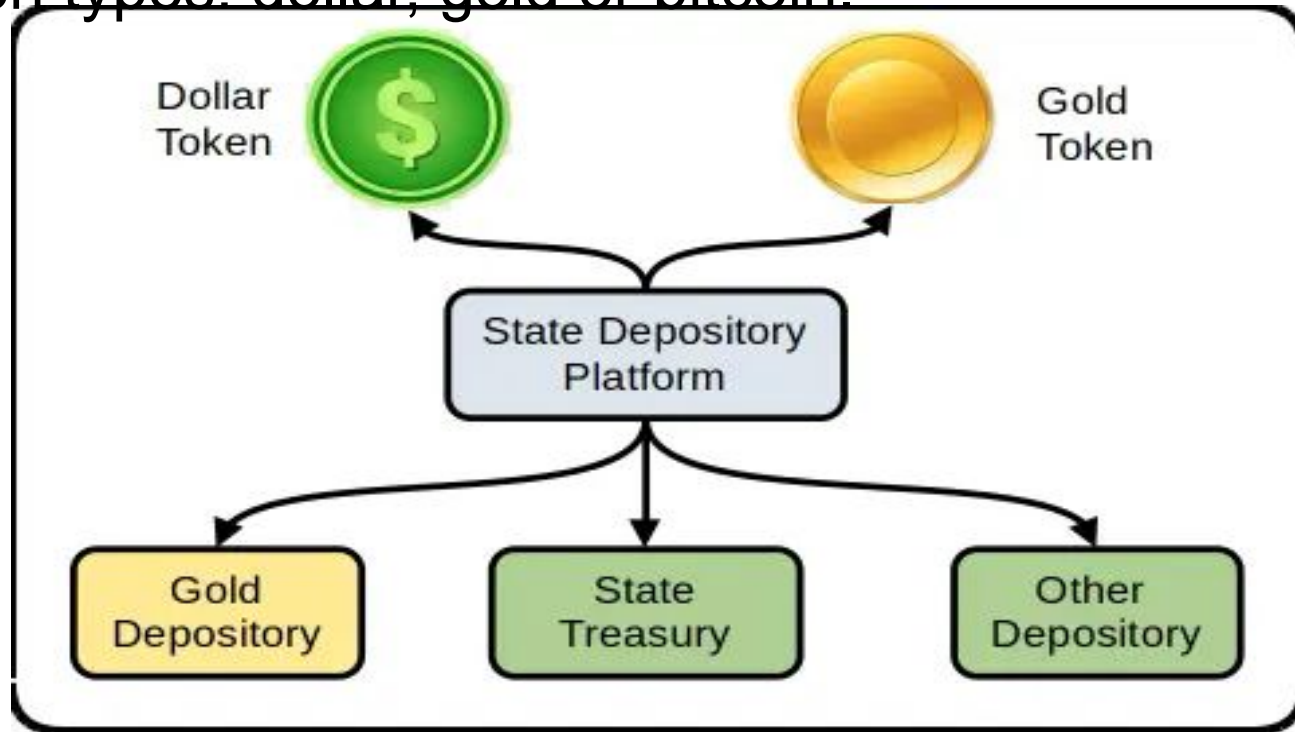


# Similar to Federal Reserve Banks



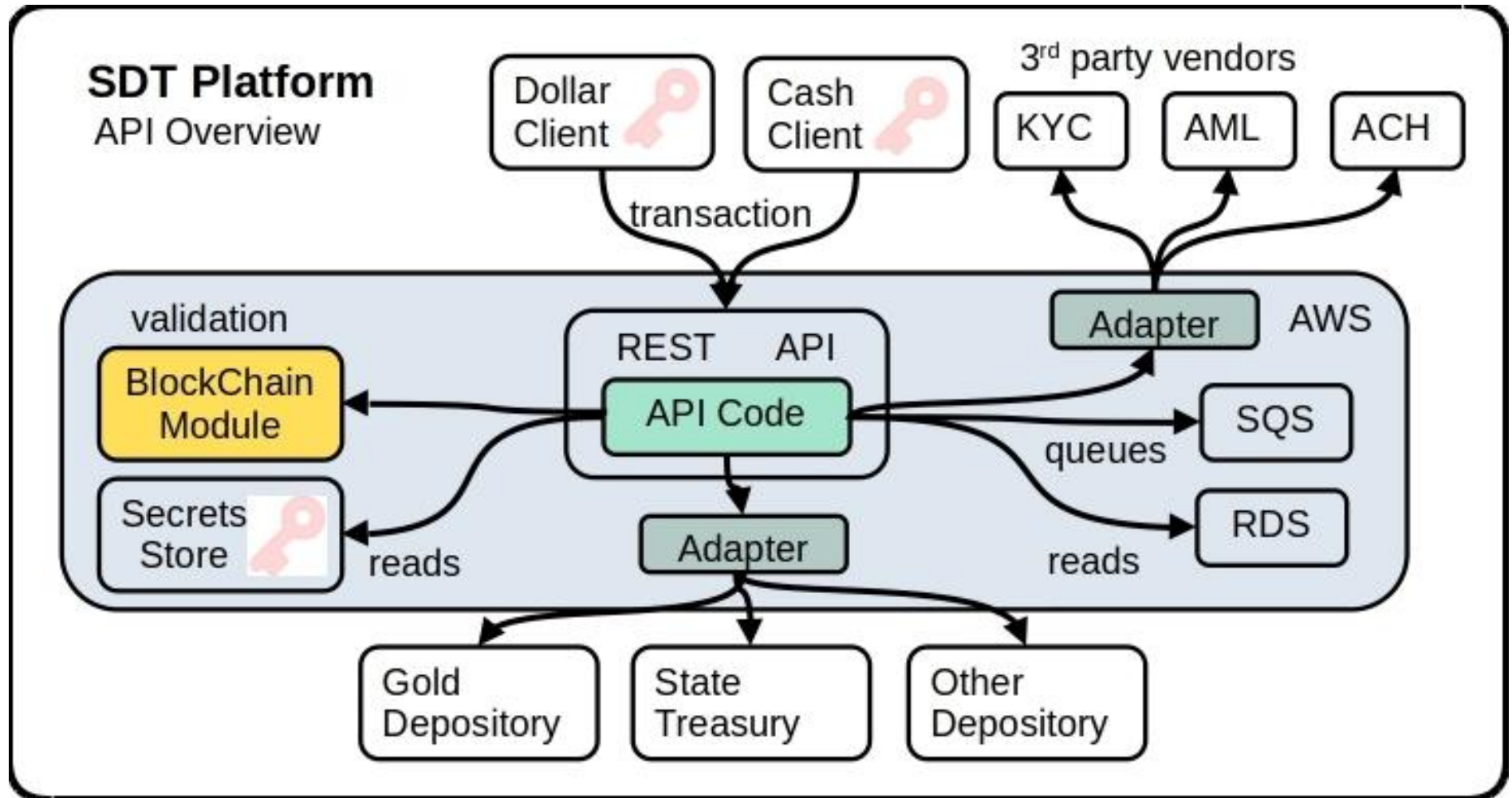
# SDT Platform

A token platform adapts to regional conditions and provides multiple token types: dollar, gold or bitcoin.





# Functional Overview



# ChatGPT Research

15 Components glued together by AI code.

ACH, KYC & AML: 3rd-party API

Language: Python ver 3.9

Blockchain: Quorum

Database: AWS RDS

ORM: Django

Transport: AWS Lambda

Security: MPC Library mpyc

Queue: AWS SQS

Vault: AWS Nitro Enclave

Schema: OpenAPI - Editor

Stablecoin: Quorum Custom

Depositories: Proprietary API

Config Mgmt: SimpleJson

Integration Test: Localsource



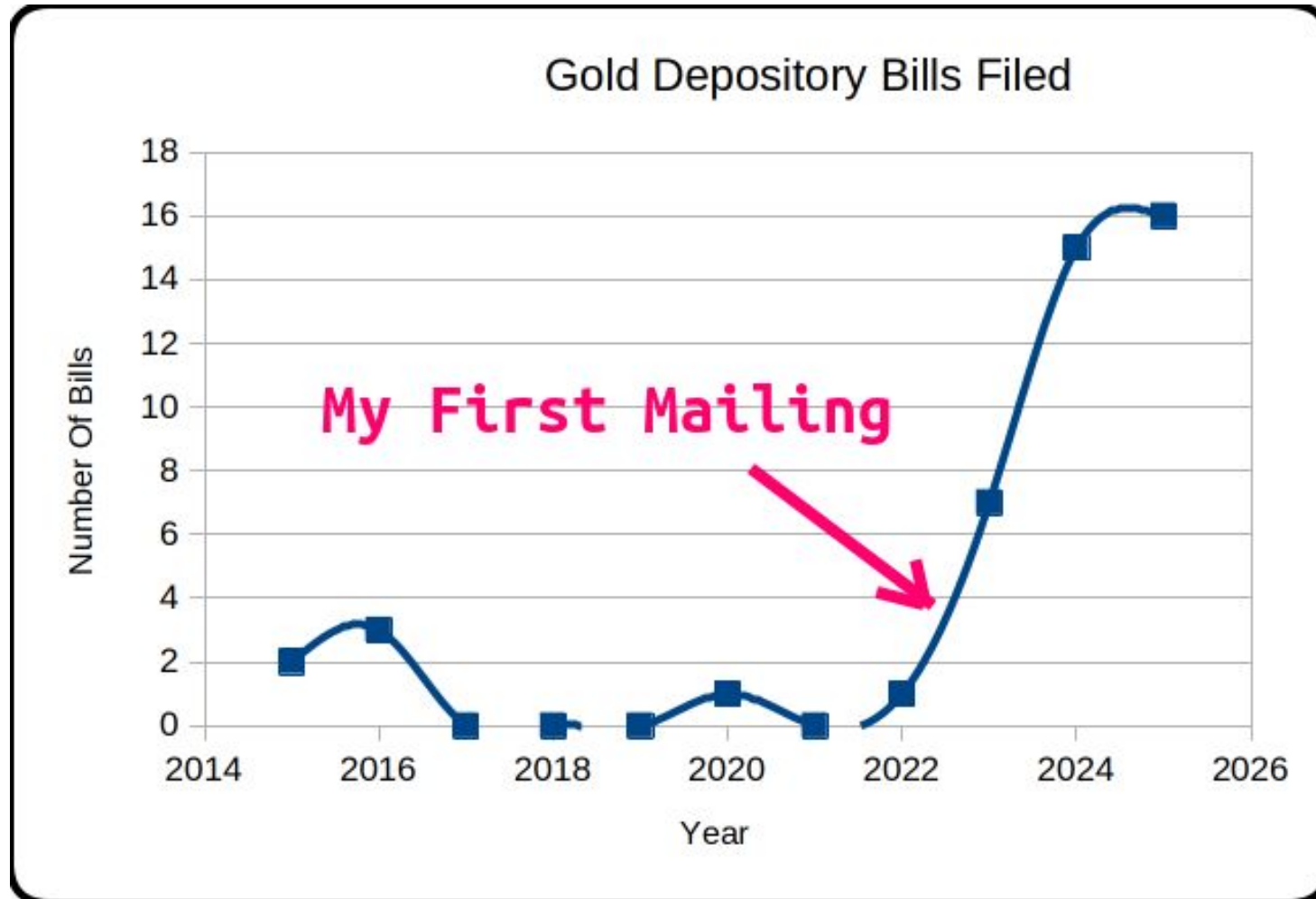
# RESULTS

Mailed 600 copies to 8% of all legislators (7,386)

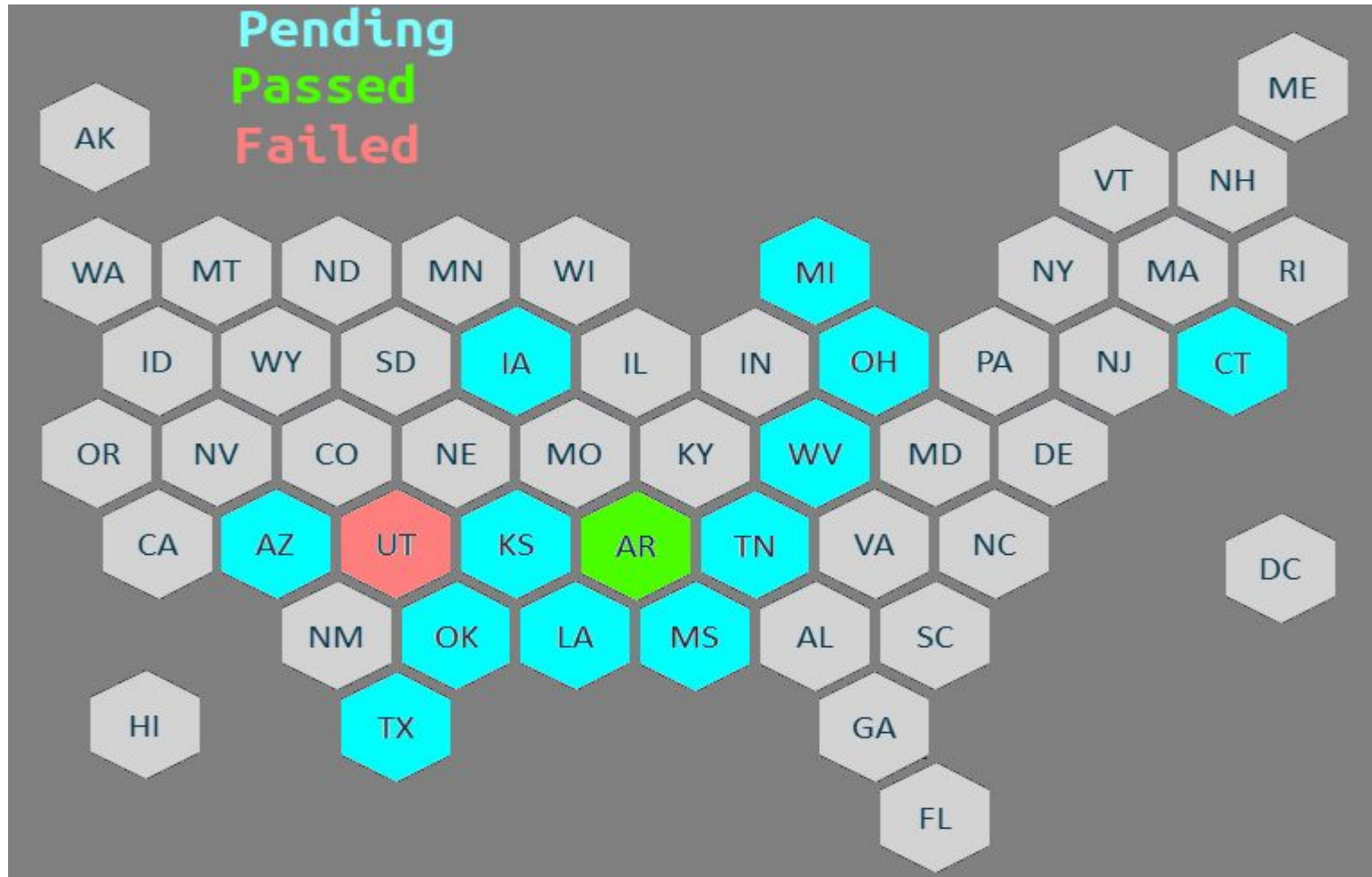
# 2023 Google Trends Feedback



# Gold Depository Bills Submitted (2015-2025)



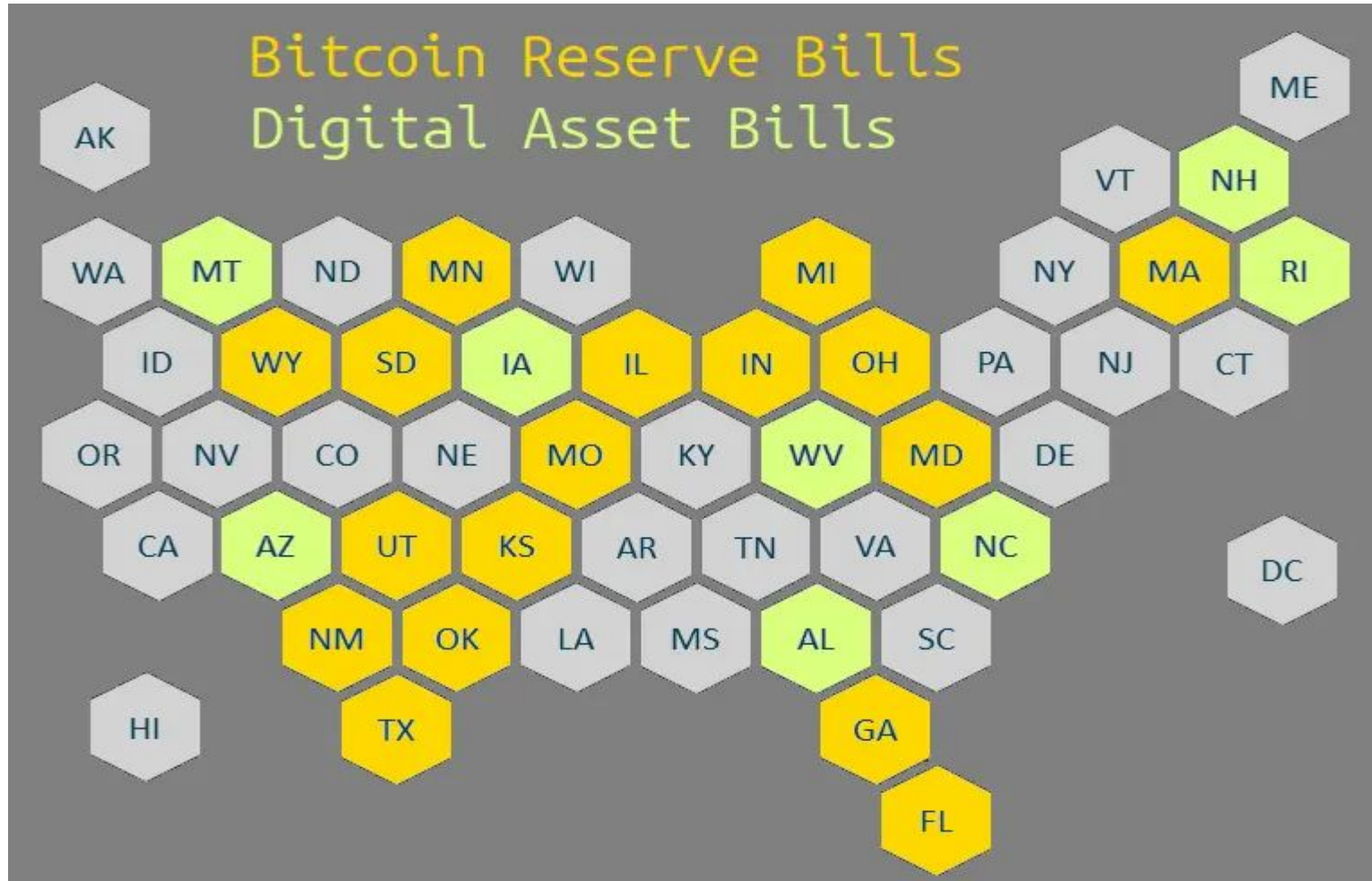
# 2025 Alt Currency Legislation



# Top Ten State Pension Funds At Risk (Grok, 2025)

State	Assets	Year of Data
California <u>CALPERS</u>	\$496 billion	2023
California <u>CALSTRS</u>	\$316 billion	2023
New York Public	\$248 billion	2023
Florida	\$184 billion	2023
Texas	\$146 billion	2018
New York Teachers	\$141 billion	2023
Washington	\$125 billion	2023
Wisconsin	\$122 billion	2023
North Carolina	\$116 billion	2018
Ohio	\$101 billion	2023

# 2025 Bitcoin Reserve Legislation





# Bitcoin Reserve Considerations

## Miner Crash in 2022-2023

### Bitcoin Price (I:BTCUSD)

29920.07 USD for Oct 22 2023

Overview

Interactive Chart

Level Chart

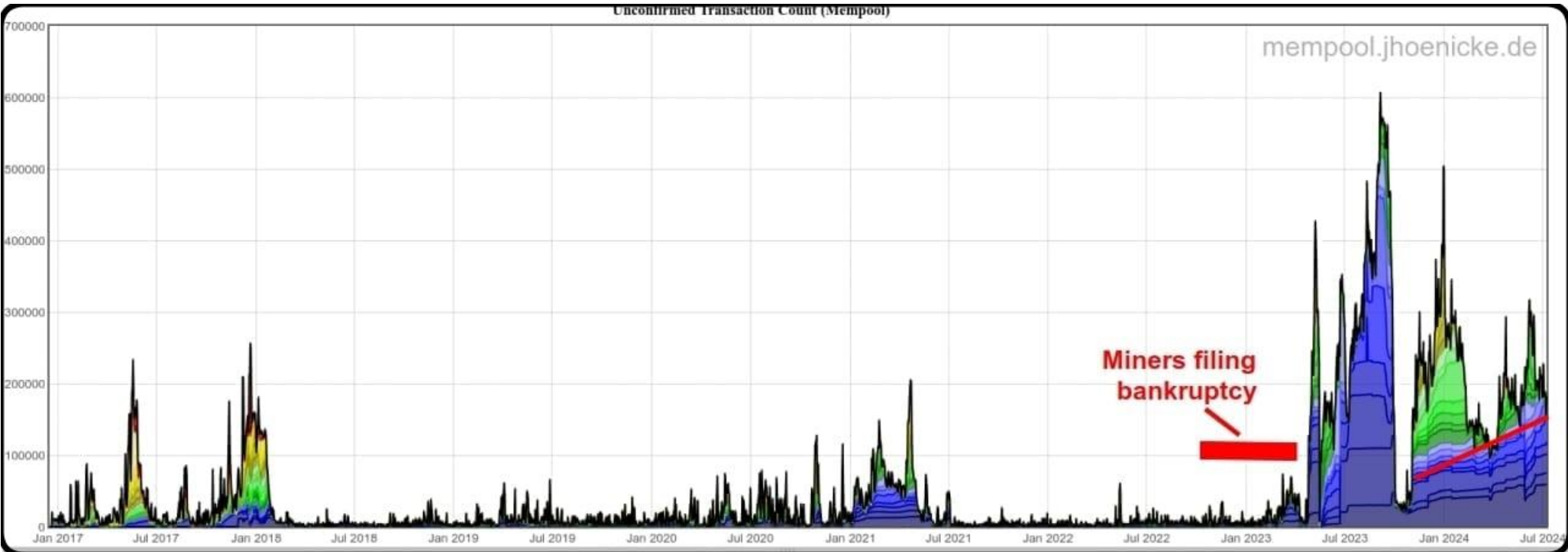
VIEW FULL C

1M 3M 6M YTD 1Y 3Y 5Y 10Y MAX



# Crash Impact On Bitcoin Mempool

Mempool overflowed but it's all about the ETFs!  
1% to 5% of transactions expiring for 18 months





Certain Things Are Likely

# Predictions

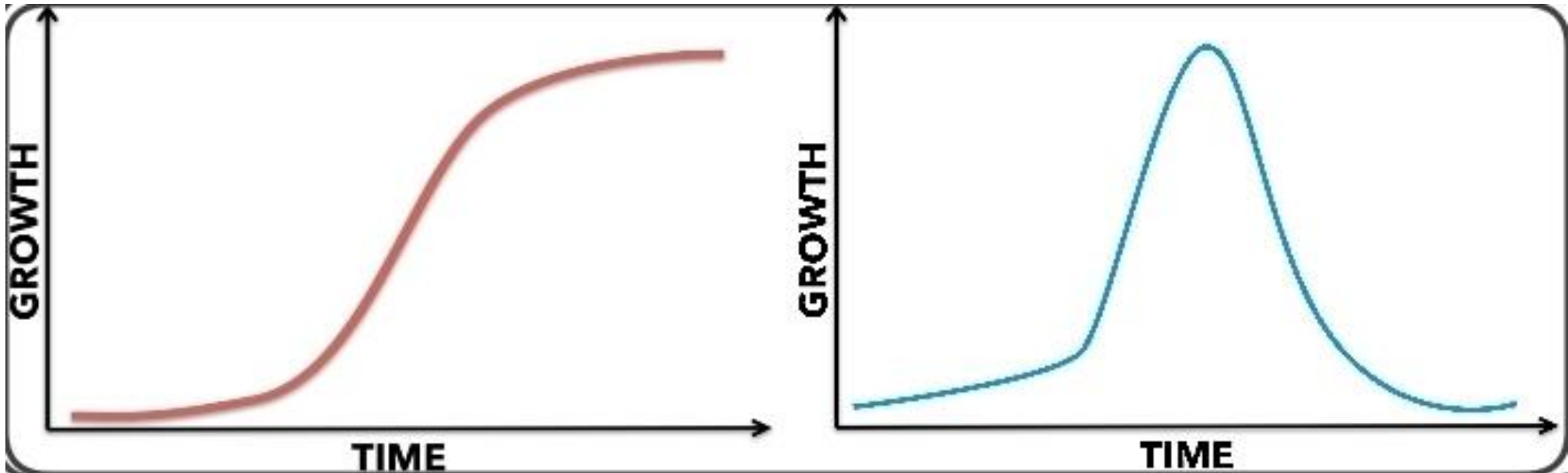
- Most bills won't pass, some will resume in 2026
- Increased crypto legislation in 2026 (diffraction)
- Commodity tokens for oil and cattle
- State purchase of private depositories
- Bitcoin mining discontinued and [coin limit raised](#)
- Explicit AI development methodology
- AI will commoditize crypto; tokens will displace intrinsic coins
- Private gold-backed cryptos may falter

# Bitcoin Scenarios: S-Curve Or A-Curve

Bitcoin uses 180 Terawatts annually, about \$20 billion

Energy consumption is rising 25% per year

By the 2028 coin halving, energy cost will be close to \$40 billion



# AI Augmentation

Y Combinator's current startups are 95% written by AI.

"10 Engineers do the work... of 50"

SCC: 1 person X 4 months

2x to 3x increase in  
productivity.

I created this in two weeks  
with a few months of python  
experience

Language	Files	Lines	Blanks	Comments
Python	25	1063	173	
JSON	23	795	7	
Shell	2	57	9	
JSONL	1	2	1	
YAML	1	66	6	
Total	52	1983	196	
Estimated Cost to Develop (organic)		\$46,256		
Estimated Schedule Effort (organic)		4.28 months		
Estimated People Required (organic)		0.96		

# AI Augmentation

Marijuana businesses might use a token system because it can act like cash. ChatGPT listed these similar markets:

- Adult Entertainment & Sex Work
- Firearms & Ammunition Industry
- Gambling & Online Betting
- Psychedelic & Alternative Medicine Industry
- Cryptocurrencies & Decentralized Finance (DeFi)
- Unregulated Herbal & Supplement Markets

# AI Considerations

- **Non-deterministic** nature impacts repeatable process
- Use a [modified development methodology](#)
- Confirmation bias is an issue in research use
- Creativity - Wordperfect example, Abstract Factory
- [Security issues from hallucinations](#)
- [Security risk from hosted instances](#) (Gmail example)

# Legislation Surprises in 2025

- [New York A 7807](#): Fiat-collateralized stablecoins as **a form of bail**
- [Texas SB 2922](#): Issuance and regulation of an **oil-backed stablecoin**
- [Wyoming Stable Token Commission](#)
- [West Virginia HB 2463](#): make gold, silver, and **crypto currency** legal tender
- [West Virginia HB 2464](#): To create the **State Bank** of West Virginia
- [USDKG](#): USD-pegged, gold-backed stablecoin from Kyrgyzstan

# Private Gold-backed Cryptocurrencies (Grok, 2025)

They don't age well



Cryptocurrency	Year Created	Still in Business (April 2025)	Cryptocurrency	Year Created	Still in Business (April 2025)
<u>Midas Rezerv</u>	2015	No	Golden Currency	2018	No
<u>Xaurum</u>	2015	No	Perth Mint Gold	2018	No
<u>Digix Gold Token</u>	2016	No	PAX Gold	2019	Yes
<u>Goldzip (Gz)</u>	2017	No	Tether Gold	2020	Yes
<u>GramGold Coin</u>	2017	No	<u>AABB Gold Token</u>	2021	Yes
Auric	2018	No	Meld Gold	2021	Yes
Magma Coin	2018	No	<u>AurusGOLD/TXAU</u>	2021	Yes
			<u>Kinesis Gold</u>	2021	Yes





# Gold

Gold rose from \$35 to \$850 in the 1970s, a 24X increase.

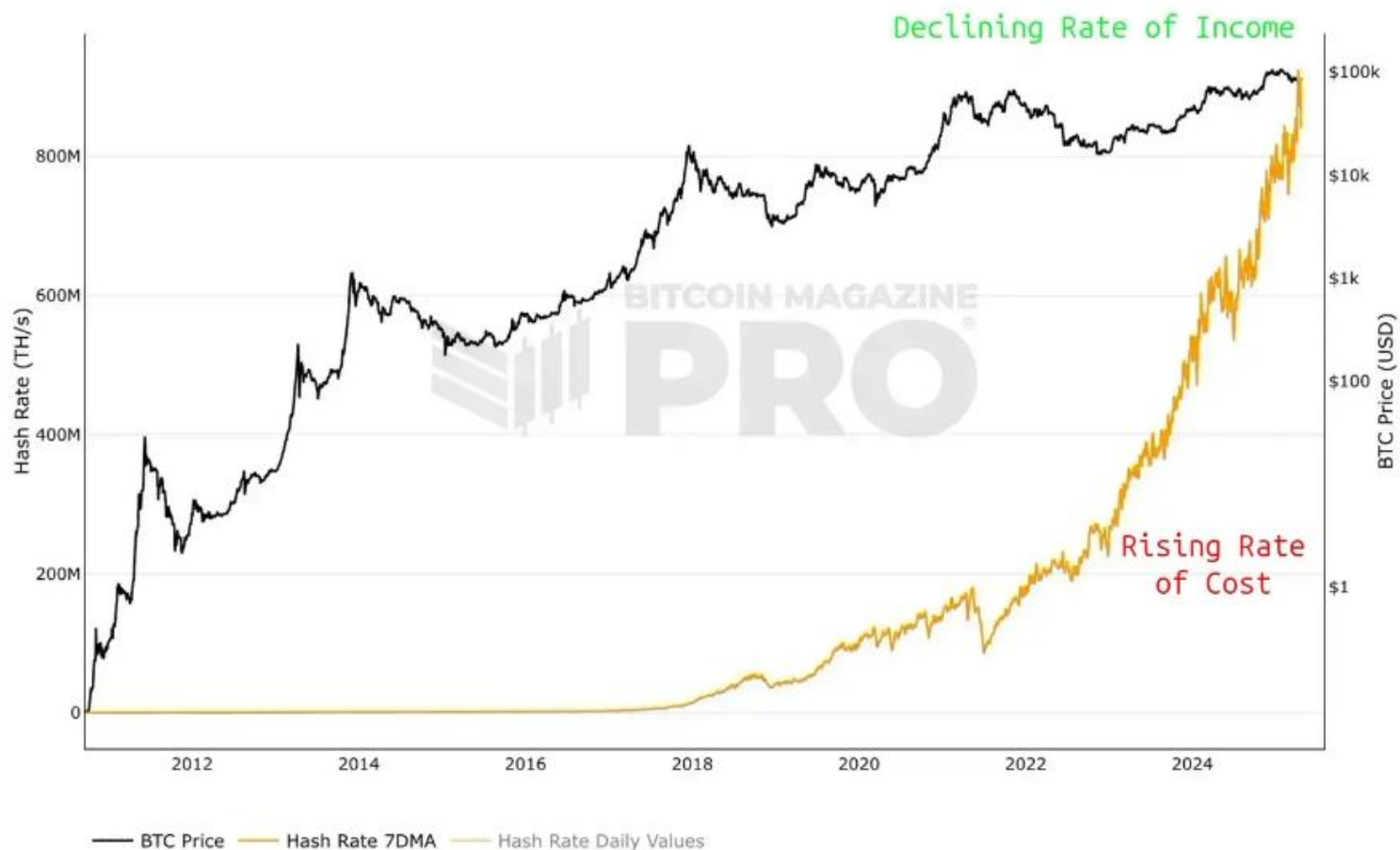
The 2020s are probably a similar situation, currently at a 3X increase from \$1100

The End





## Bitcoin: Bitcoin Hashrate

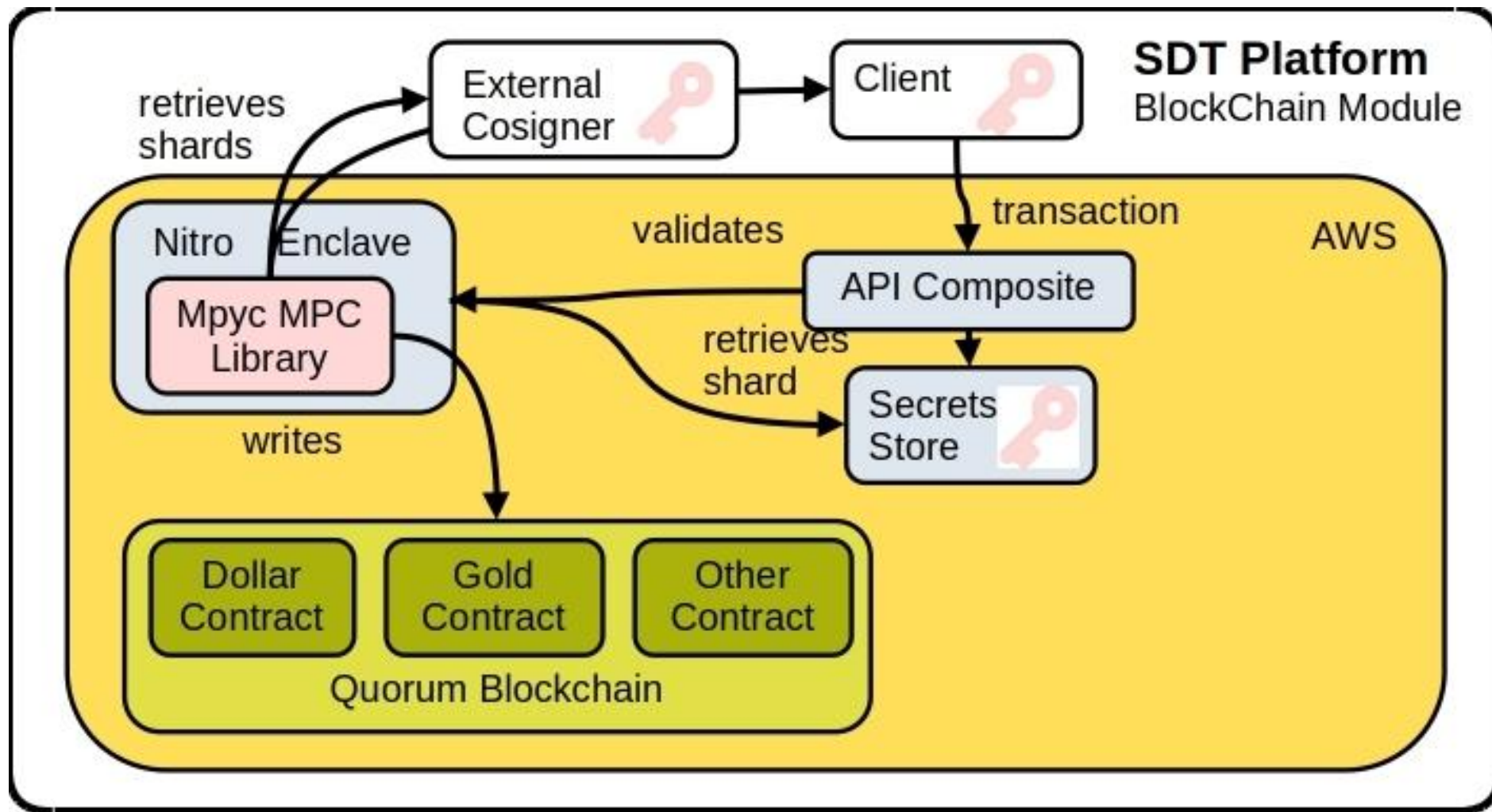


# Supplementary Slides For Questions / Comments

## Private Crypto versus State Crypto

- Annual income of largest Bitcoin miner, MARA: \$650 million
  - Annual budget of State of Louisiana: \$45 billion, almost 100X more.
- 
- Identify an impending problem (The Dollar)
  - Find a unique solution (State Depository)
  - Use AI to overcome roadblocks (Paper, research, coding)
  - Develop a feedback process (Trends and [Open Spaces](#))

# Blockchain Module



# Misc Considerations

- Dollar/gold represent complex objects as one number, PRICE
- Crypto platform can add more dimensions, a more accurate model
- Fungible support
- Token versus Intrinsic value (Bitcoin) - Lost or Stolen is replaceable
- [Bank Centralization](#)

# Marijuana State Intersection

The intersection of marijuana-legal States and State depository candidates (blue names have bills for 2025)

Illinois

Massachusetts

Montana

Michigan

Arizona

New Jersey

New York

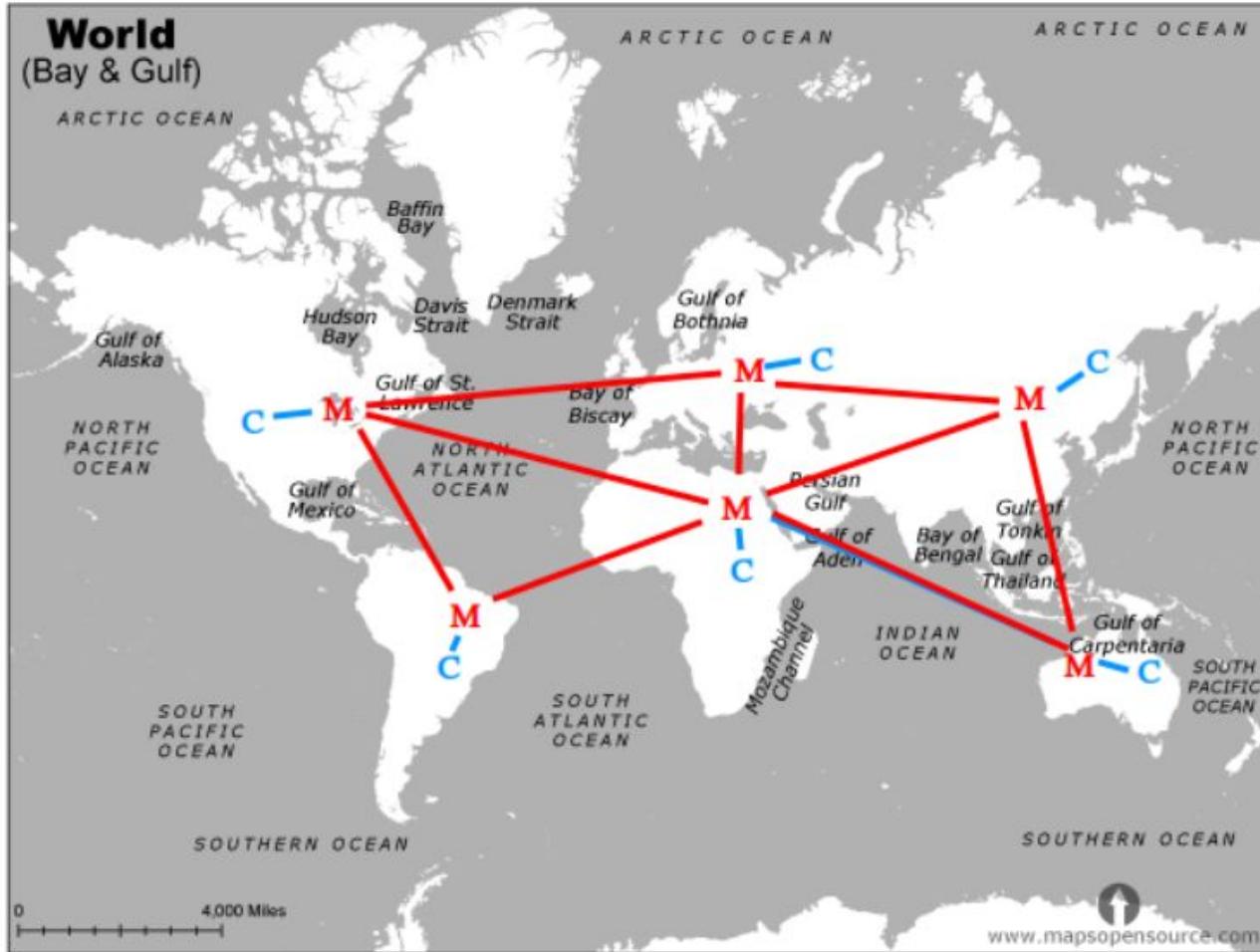
Rhode Island

Missouri

Ohio



# Bitcoin Miner Crash

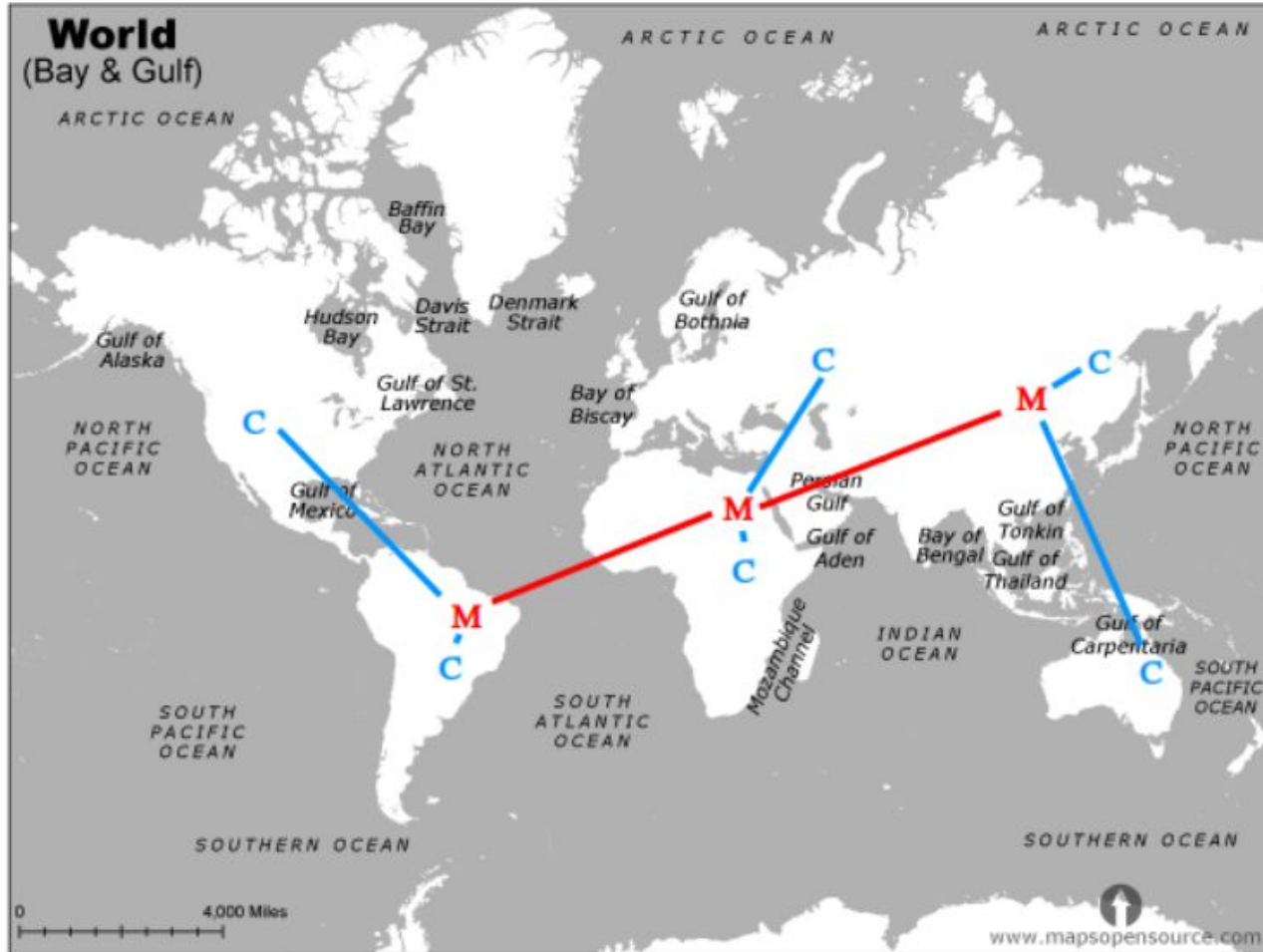


## Conceptual Diagram

Miner : Wallet ratio  
1 million : 200 million

1 : 200

# Bitcoin Miner Crash



## Conceptual Diagram

Miner : Wallet ratio  
500K : 200 million

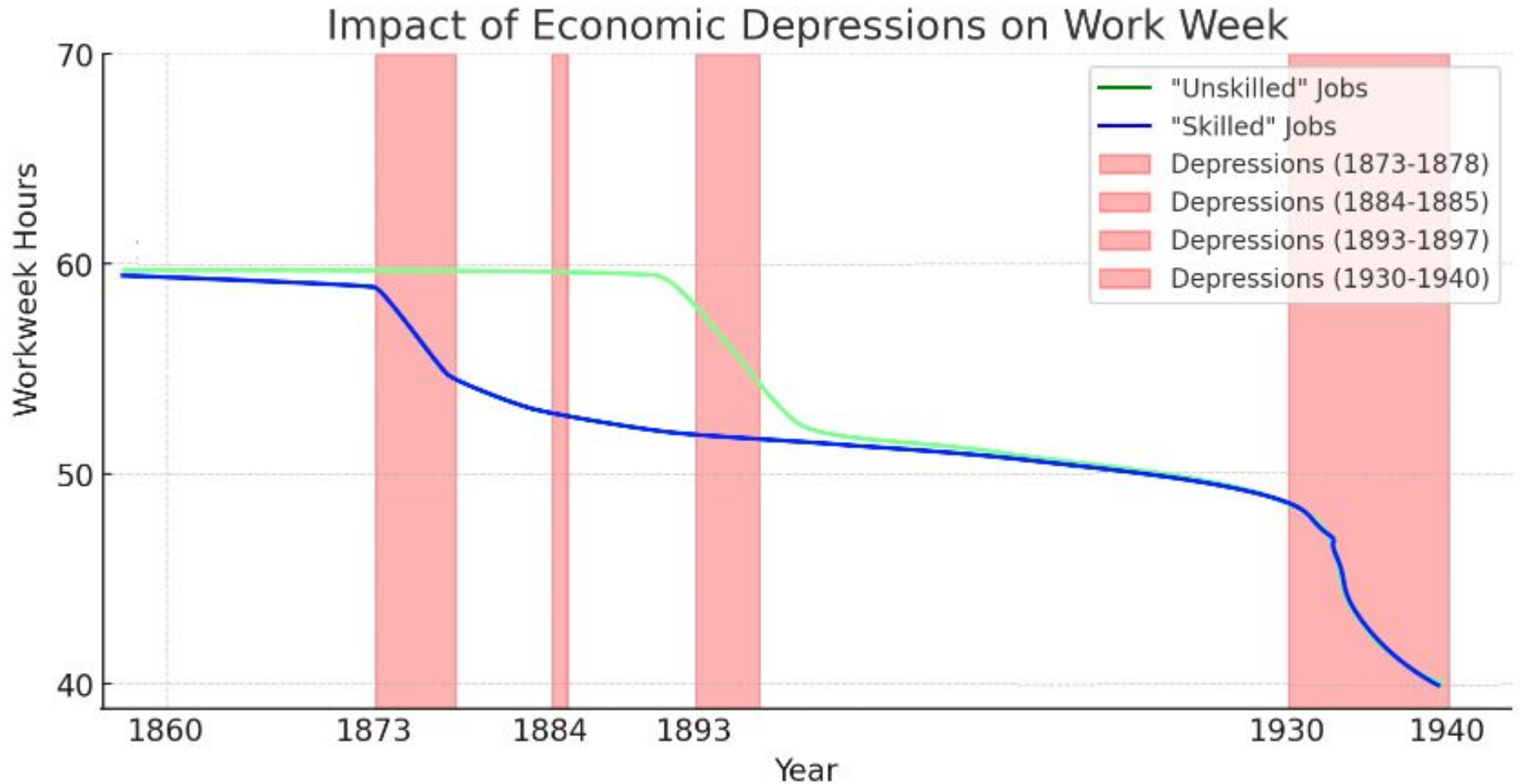
1: 400

Each miner now  
serves twice as many  
wallets and over  
longer distances

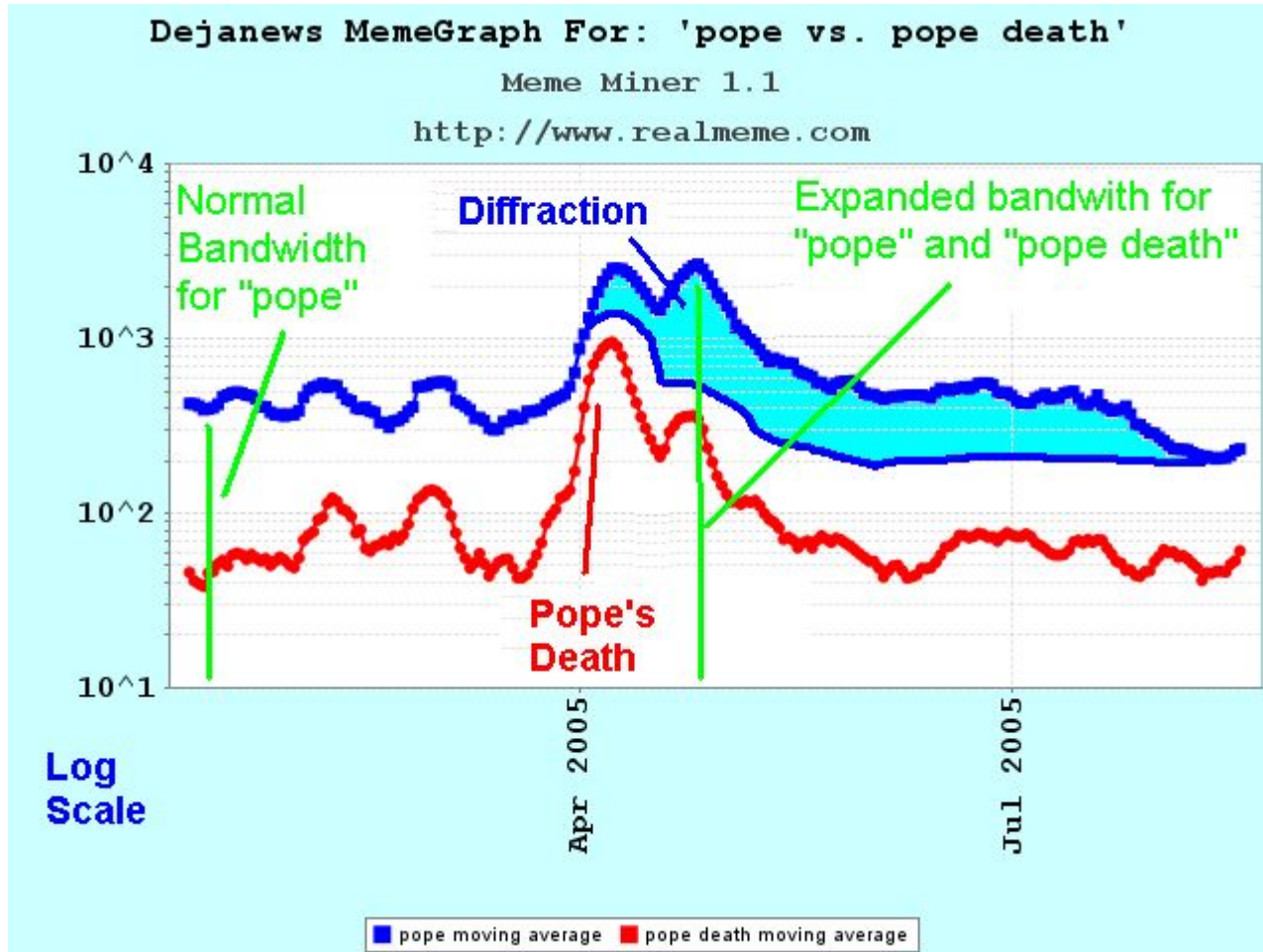
# Crash Impact On Confirmation Time



# Likely Reduction In Workweek



# A Little Bit Of NLP

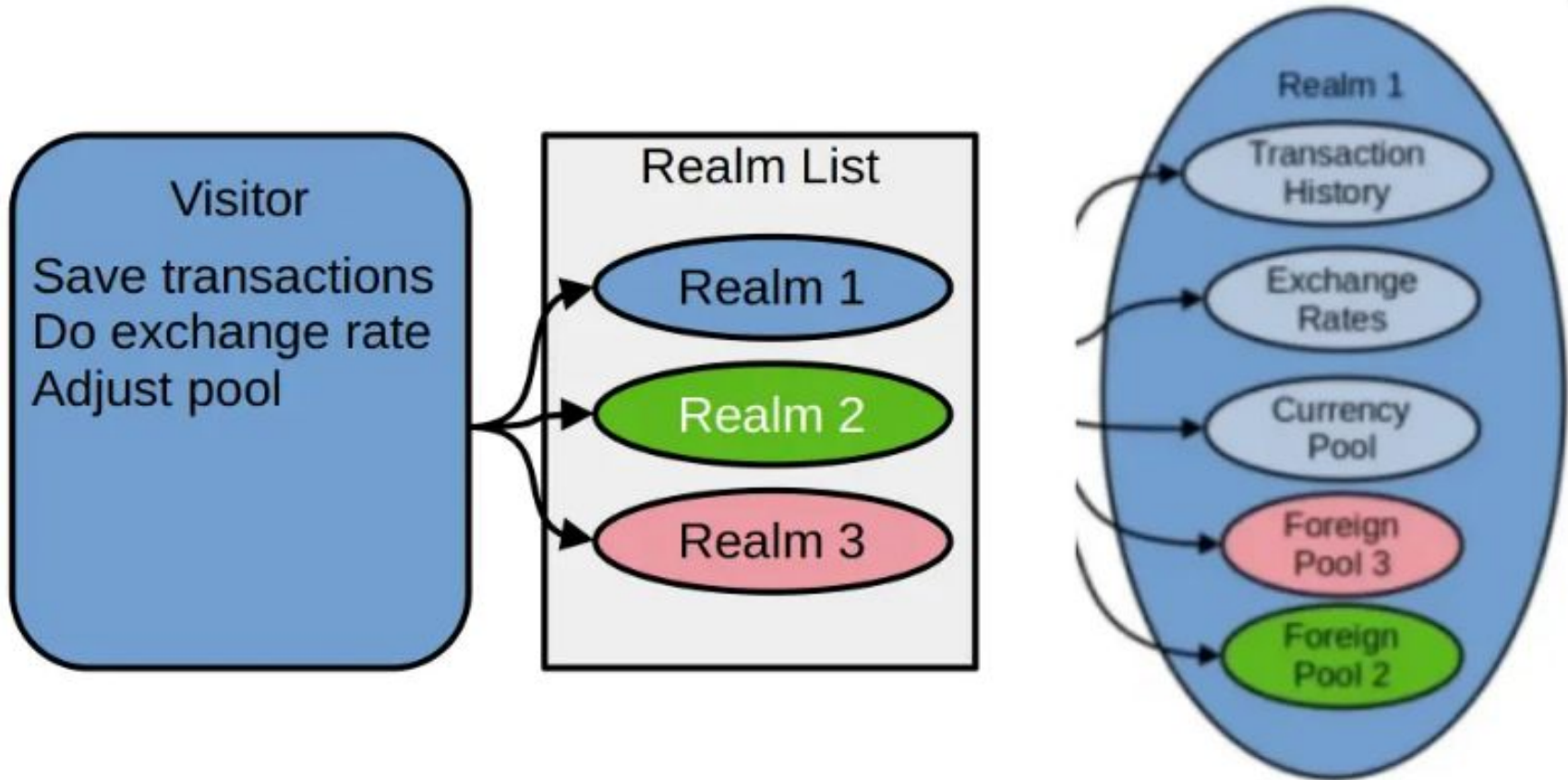


Diffraction aliases:

- Shock Doctrine
- Disaster Capitalism
- Overton Window

A sudden shock jars people out of their everyday habits and frees mental bandwidth which can be captured by other ideas.

# BRICS Visitor Pattern





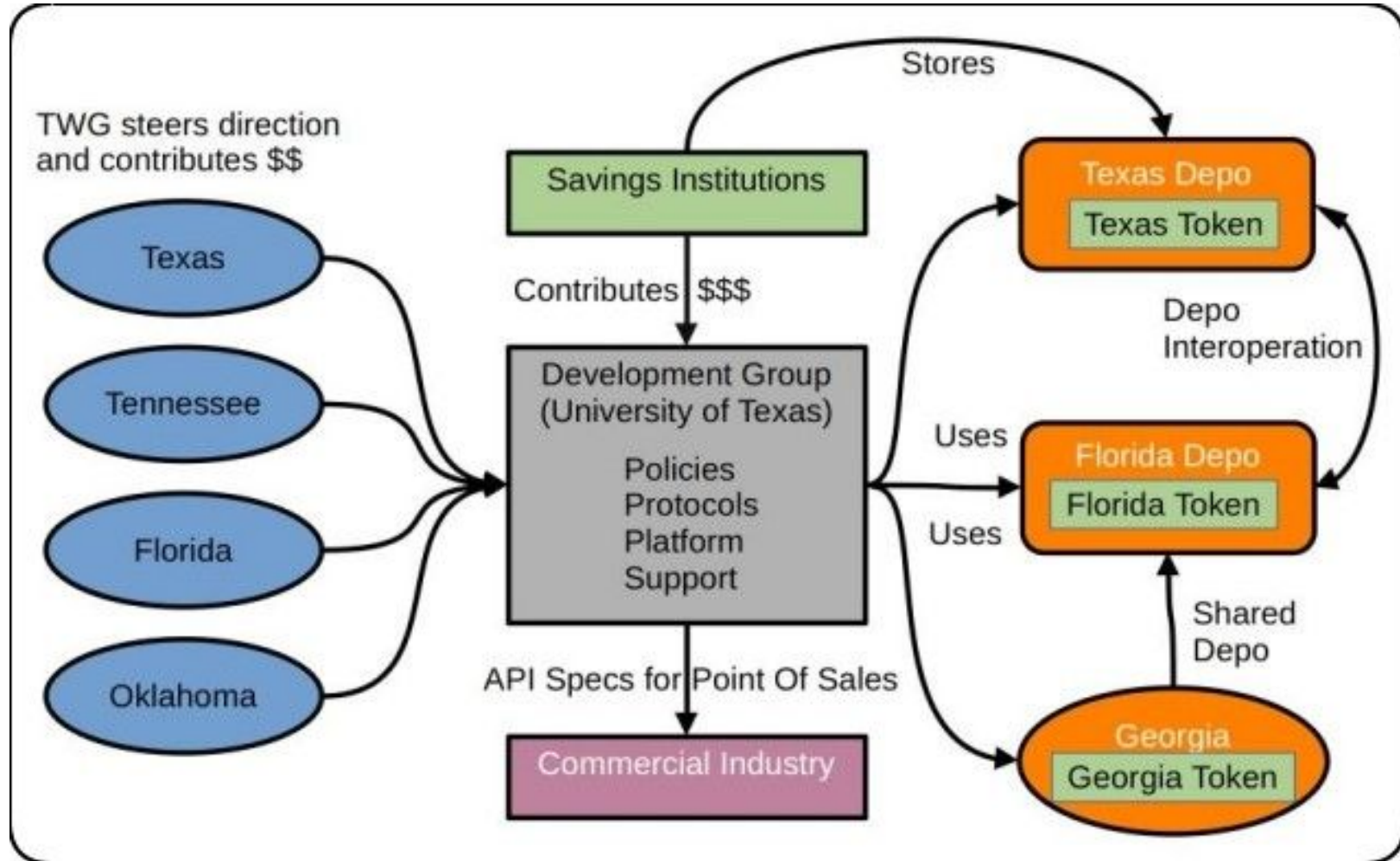
# ChatGPT Script Example

generate a json schema which has user, address, account, transaction, history and status objects, generate a matching postgres DDL script, a python REST API using Flask and matching test json objects.

generate a react client which has a data entry screen for each of the KYC data, ACH data and AML data

generate a docker instance which imports four REST API servers written in python and starts them up automatically on non-competing ports

# Technical Working Group (TWG)





# J. Orlin Grabbe



Financial Trading

Conspiracy Theorist

The End Of Ordinary Money (1995)

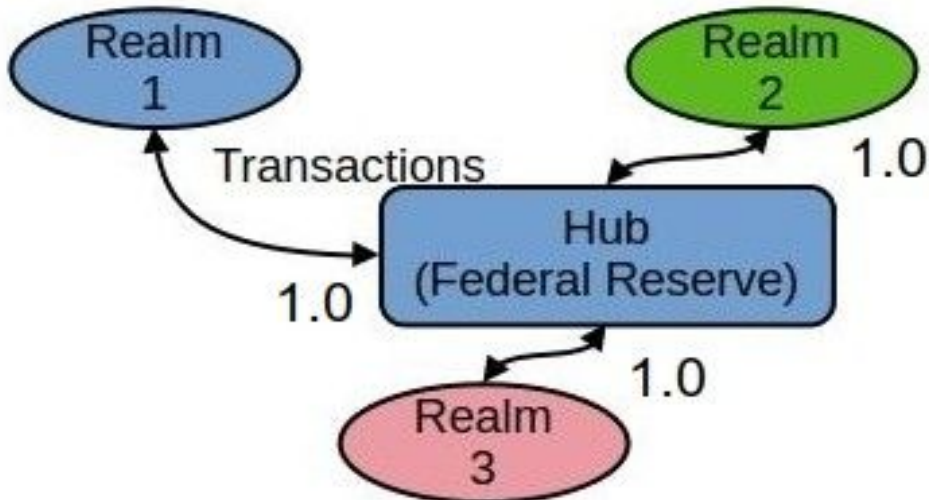
Digital Money Trust (1999-2004)

# State Exchange System (SXS)

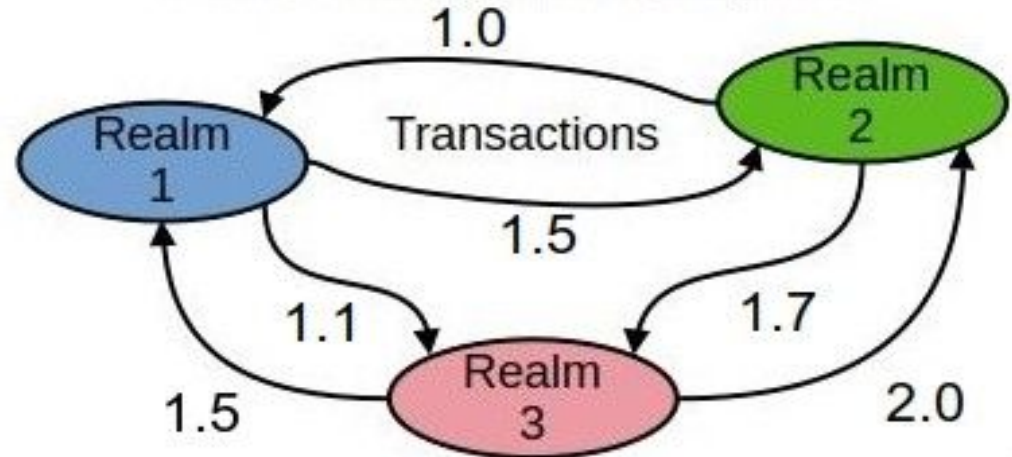
- Hub and Spoke: centralized, scalable, simple but rigid
- Point-to-Point: flexible but complex and limited scale

Point-to-point allows multiple, asymmetrical exchange rates and probably the how the new BRICS currency system works

Centralized Exchange System



Point-To-Point Exchange System



# Private Gold-backed Cryptocurrencies (Me, 2023)

They don't age well



Currency	Blockchain	Status
OneGram	Graphene, C++, probably custom written	last tweet was 2019
Digix Gold Tokens	Ethereum	Digix ceased operations 21 March 2023
Gold Bits Coin	Ethereum	last news was 2019
Goldmint	based on the original pBFT protocol	last news was Aug, 2022
ZenGold	NA	last news was 2019
Puregold Token	Ethereum	last news was Feb 2020
HelloGold	Ethereum	shut down in Jan 2023
Xaurum	Ethereum	active
PAXG	Ethereum	active
XAUT	Ethereum	Tether
PMGT	Ethereum	ceased operations
GLC	Ethereum	active