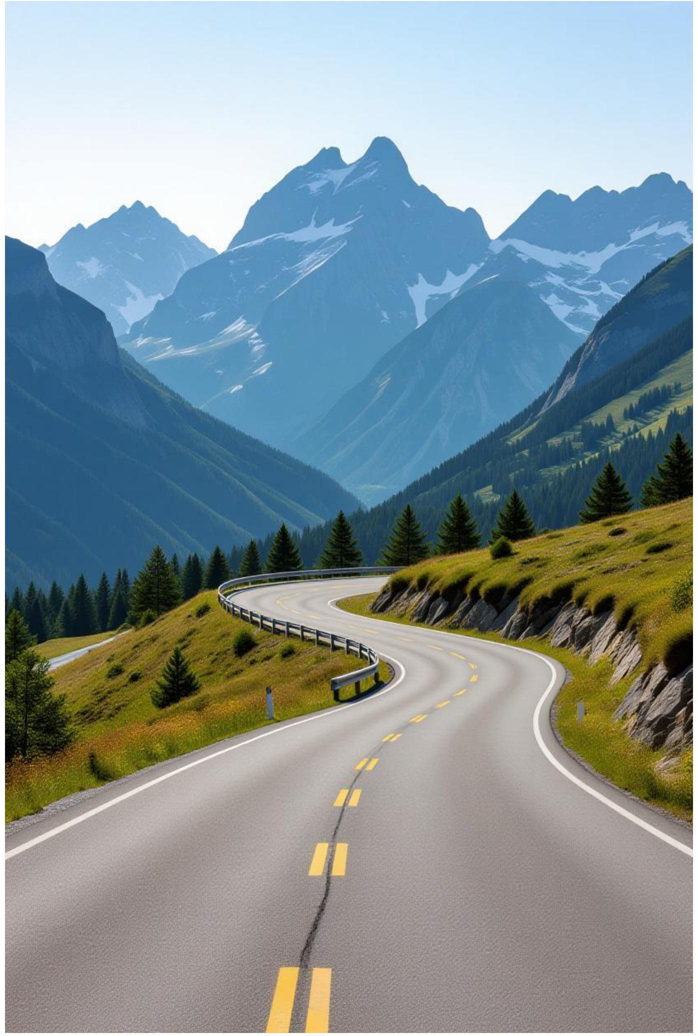
Blockchain & Crypto: Kingdom Applications for our Digital Age

Roadmap

- Basic Foundation
- Demo
- Bert Morrison (Water Mission)
- Table scenarios



How familiar are you with blockchain and crypto?

Do not edit
How to change the design

Are blockchain and crypto useful for your ministry or organization?

The Slido app must be installed on every computer you're presenting from

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My Thesis

Blockchain and crypto are incredibly relevant for *you* and *your organization* right now, today.

What is a Blockchain?

- A decentralized, digital ledger
- Distributed across a network of computers
- New blocks are formed and added to the chain by consensus – "mining" + verification
- Once formed, the blockchain is immutable

The Breakthrough:

Blockchains eliminate the need to trust a counterparty

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Blockchains eliminate the need to trust a counterparty

Blockchains Today

The most boring use case is also the most successful: an internet-native form of money

Bitcoin is worth ~$2.2 trillion today

Bitcoin's value proposition:

The Bitcoin network, using *cryptographic proof and verification*, allows economic value to be stored and transferred globally without trusting a counterparty

Bitcoin's Origin

- '08-'09 – The Great Financial Crisis
- Bitcoin Whitepaper
- Anonymous inventor(s): "Satoshi Nakamoto"

Bitcoin: A Peer-to-Peer Electronic Cash System

Satoshi Nakamoto
satoshin@gmx.com
www.bitcoin.org

Abstract. A purely peer-to-peer version of electronic cash would allow online payments to be sent directly from one party to another without going through a financial institution. Digital signatures provide part of the solution, but the main benefits are lost if a trusted third party is still required to prevent double-spending. We propose a solution to the double-spending problem using a peer-to-peer network. The network timestamps transactions by hashing them into an ongoing chain of hash-based proof-of-work, forming a record that cannot be changed without redoing the proof-of-work. The longest chain not only serves as proof of the sequence of events witnessed, but proof that it came from the largest pool of CPU power. As long as a majority of CPU power is controlled by nodes that are not cooperating to attack the network, they'll generate the longest chain and outpace attackers. The network itself requires minimal structure. Messages are broadcast on a best effort basis, and nodes can leave and rejoin the network at will, accepting the longest proof-of-work chain as proof of what happened while they were gone.

“Bitcoin is Digital Gold”

“Digital” = 1,000x better

- Mobility: digital vs. analog

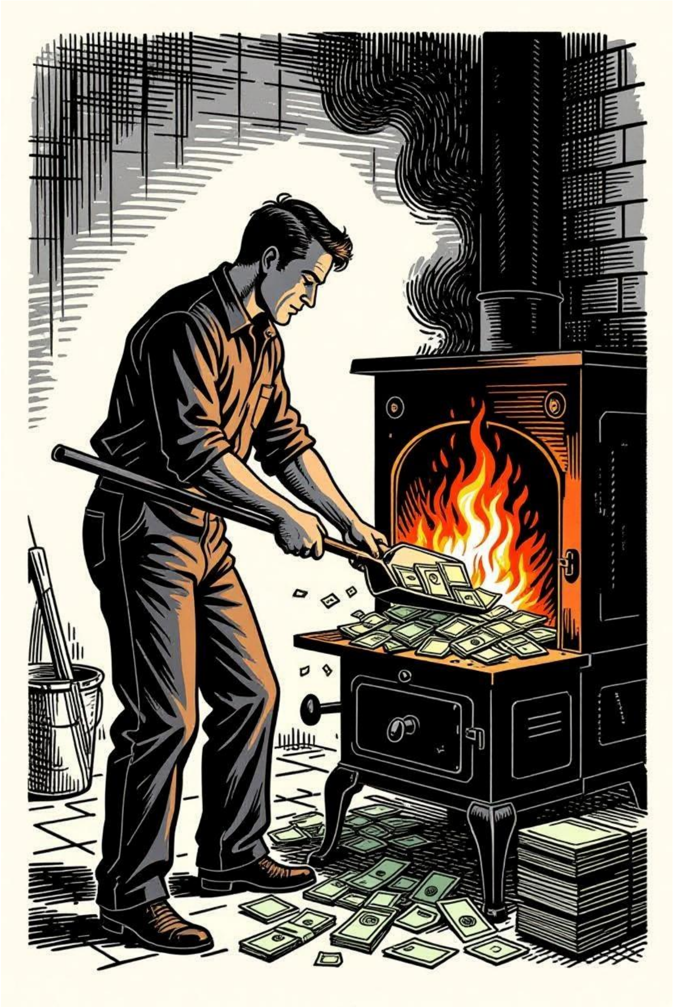
“Bitcoin is Digital Gold”

“Digital” = 1,000x better

- Mobility: digital vs. analog
- Divisibility: “sats” (100,000,000 per Bitcoin) vs. bars
- Security: seed phrase vs. vaults & armored trucks
- Scarcity: 21 million vs. 1-3% increase annually

“But Bitcoin is…”

“…too energy intensive“



Total World Production & Consumption

Electricity

Production

29 031 TWh

Consumption

25 530 TWh

Bitcoin share

0.83%

Energy

Production

175 892 TWh

Consumption

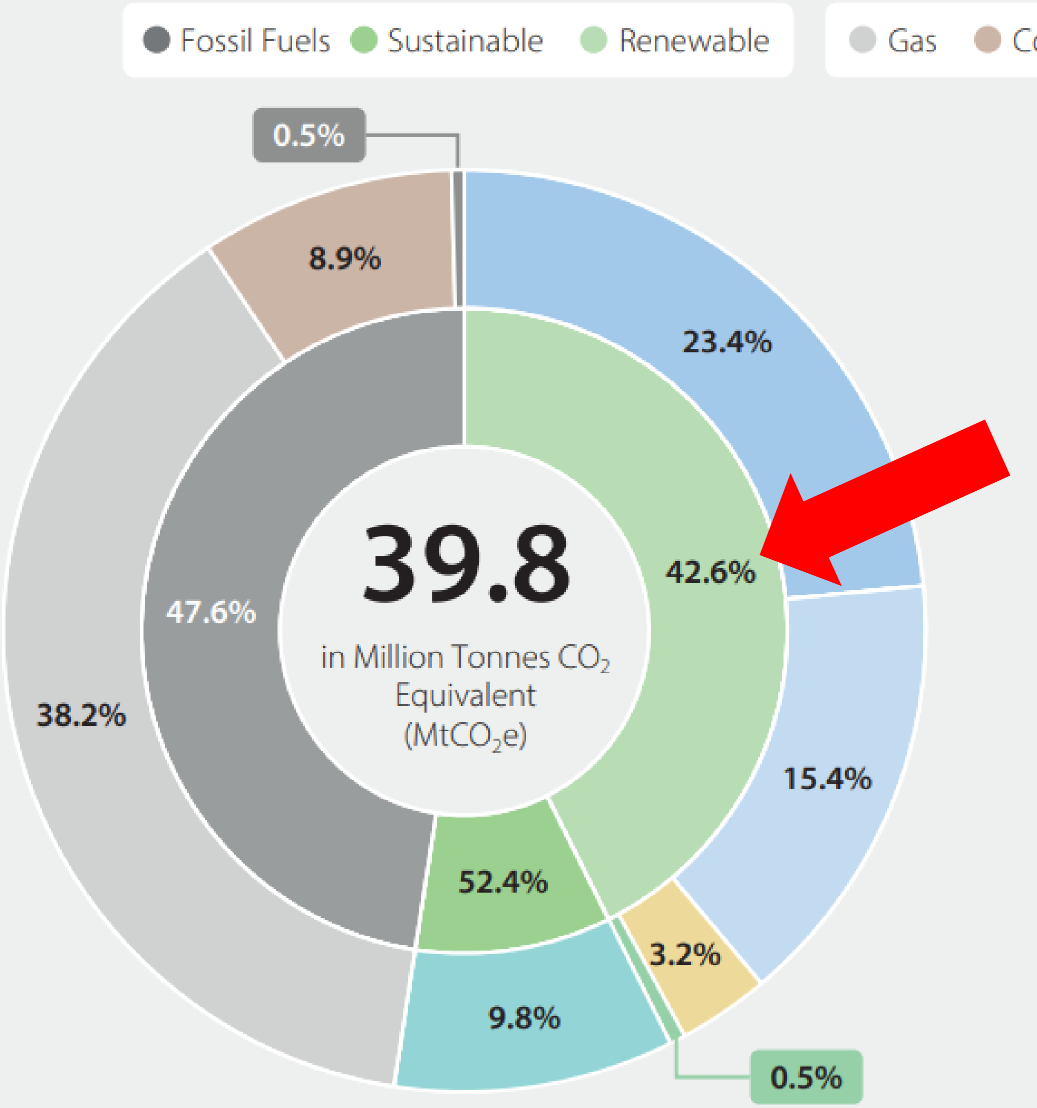
169 624 TWh

Bitcoin share*

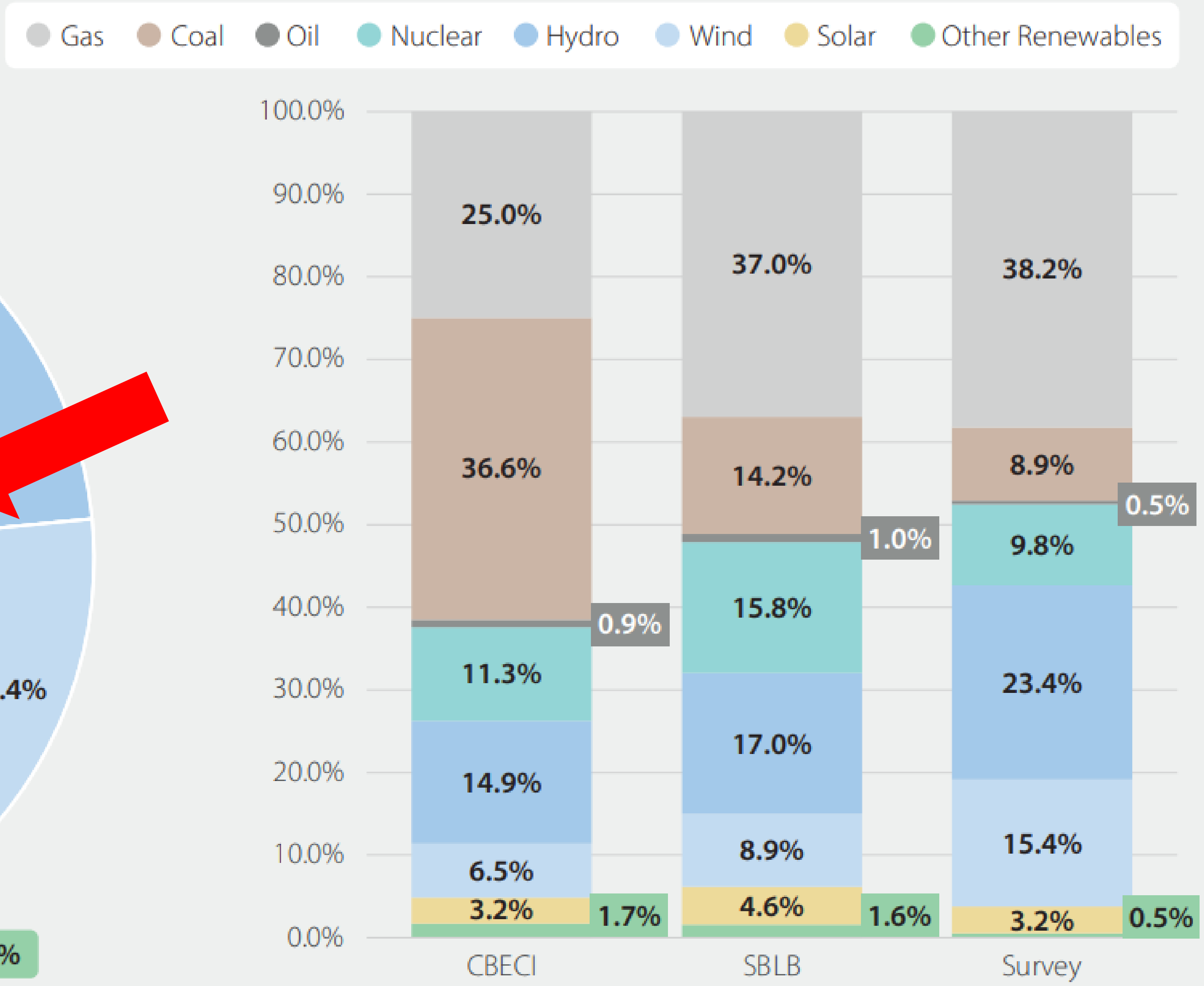
0.32%

Source: University of Cambridge, CCAF, Blockchain Network Sustainability Index — https://ccaf.io/cbnsi/cbeci/comparisons

Electricity Consumption by Source



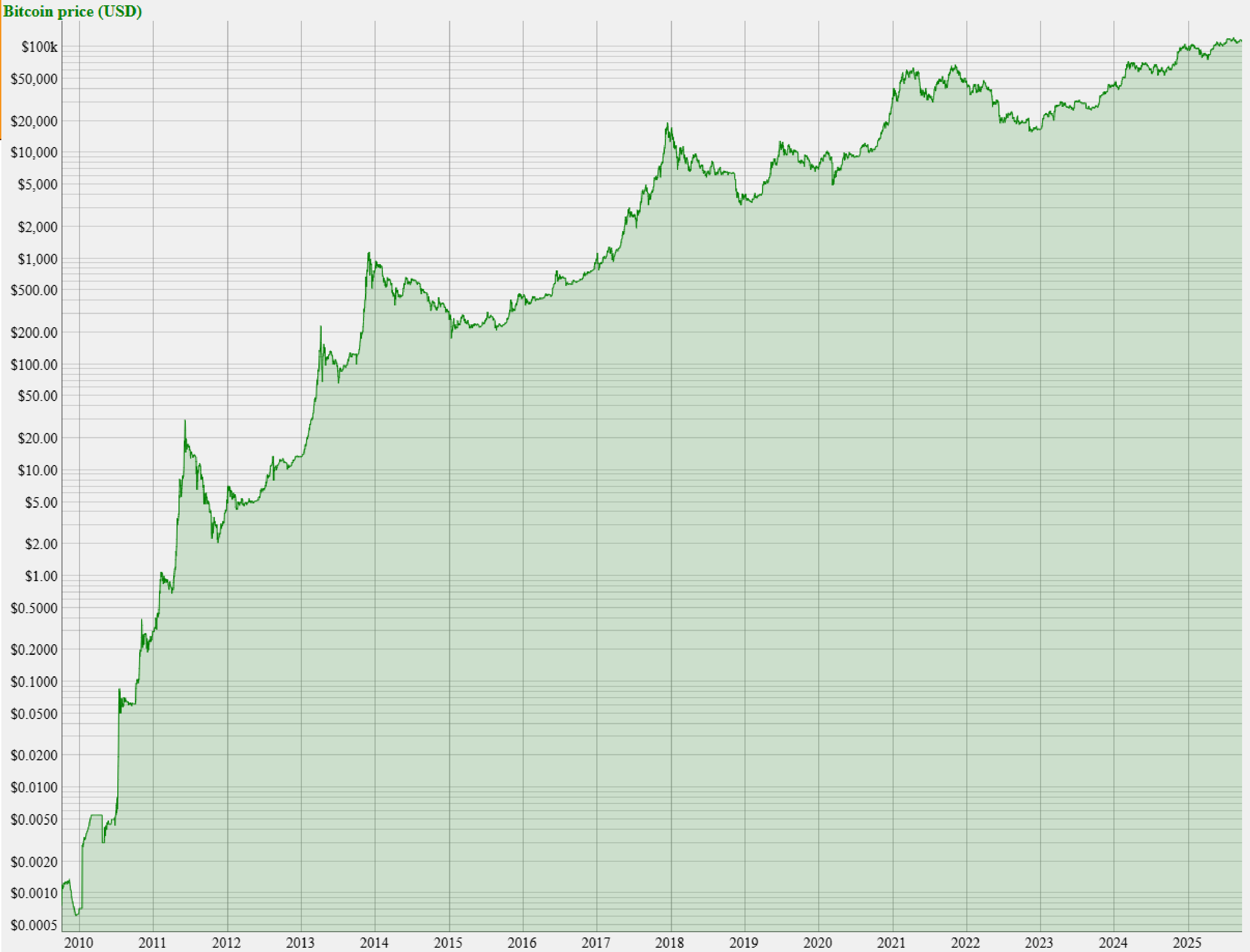
Electricity Mix by Estimation Method



Source: University of Cambridge, CCAF — https://www.jbs.cam.ac.uk/wp-content/uploads/2025/04/2025-04-cambridge-digital-mining-industry-report.pdf

“But Bitcoin is…”

“…too energy intensive“
“…too complicated”



Bitcoin price (USD)
$100k
$50,000
$20,000
$10,000
$5,000
$2,000
$1,000
$500.00
$200.00
$100.00
$50.00
$20.00
$10.00
$5.00
$2.00
$1.00
$0.5000
$0.2000
$0.1000
$0.0500
$0.0200
$0.0100
$0.0050
$0.0020
$0.0010
$0.0005
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025

“But Bitcoin is…”

“…too energy intensive“

“…too complicated”

“…too expensive”

Anyone can buy $1 worth today

- What about equities?
- Gold?
- Real estate?

Problems Bitcoin Solves

- Counterparty trust: no need
- Debasement: supply-capped at 21M coins
- Individual sovereignty: financial access that empowers

People are image bearers of God

Don’t we want people to have sovereignty over their capital?

Discuss (2-3 minutes)

Does financial sovereignty align with human dignity and the imago Dei? Why or why not?

What tensions or opportunities does this create for your organization?

Bitcoin Just Works


BBC
Bitcoin increasingly used in Kenyan slums
BBC NEWS
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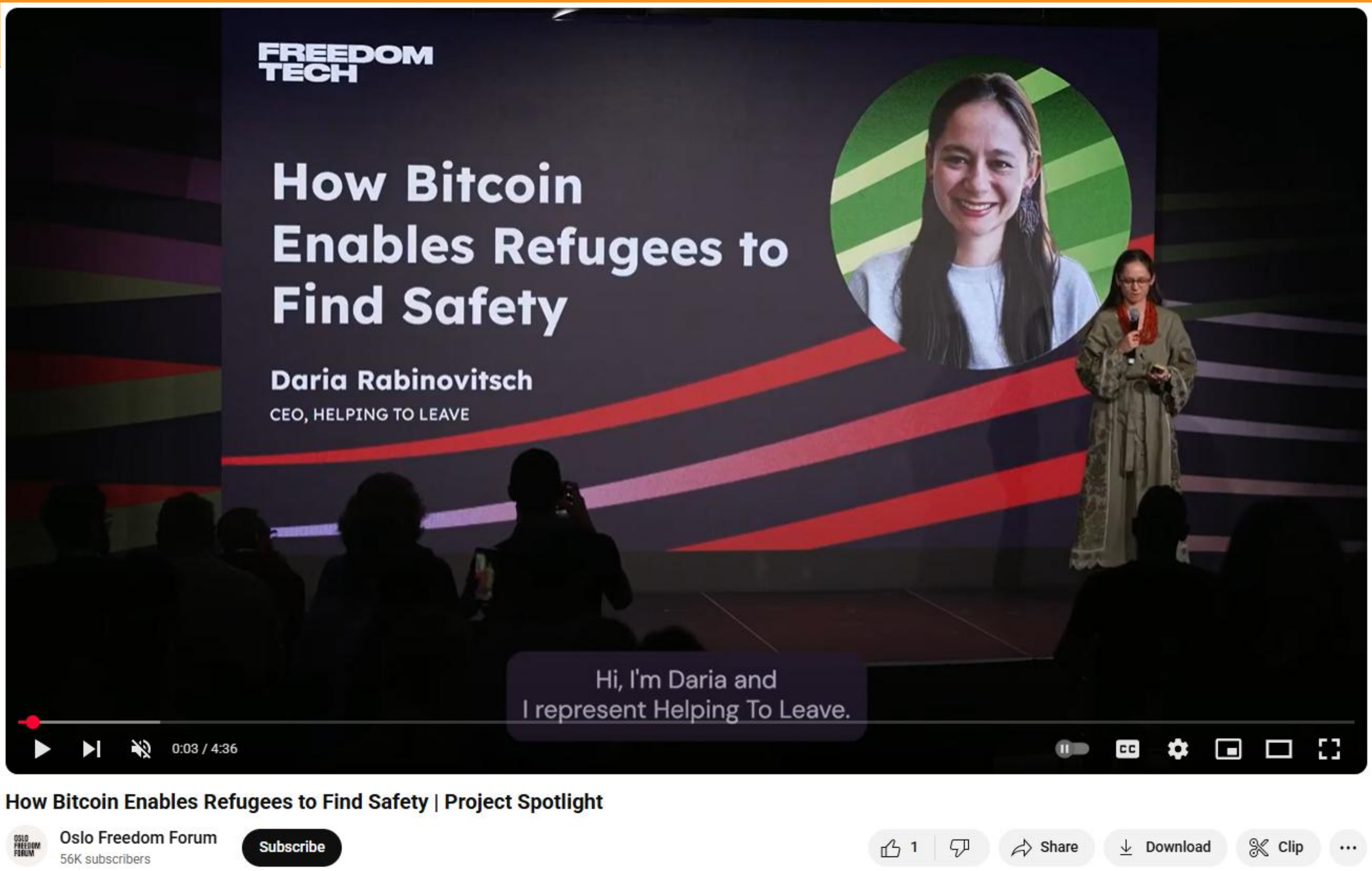
FREEDOM TECH
How Bitcoin Enables Refugees to Find Safety
Daria Rabinovitsch
CEO, HELPING TO LEAVE
Hi, I'm Daria and I represent Helping To Leave.
0:03 / 4:36
How Bitcoin Enables Refugees to Find Safety | Project Spotlight
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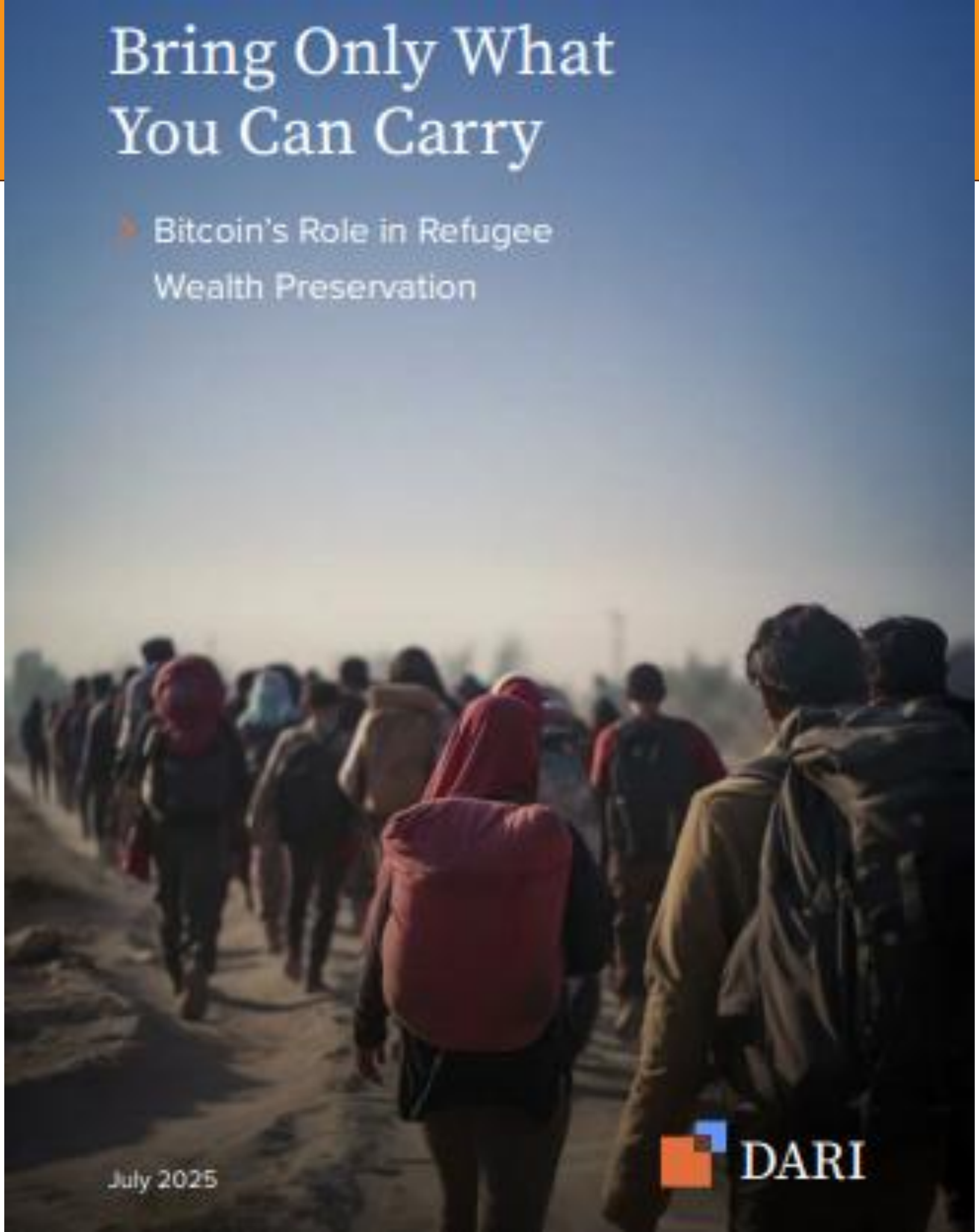
Bring Only What You Can Carry
Bitcoin's Role in Refugee Wealth Preservation
July 2025
DARI

Human Rights Foundation

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WHY BITCOIN IS FREEDOM MONEY

Alex Gladstein

Alex Gladstein *is chief strategy officer at the Human Rights Foundation and the author of* Check Your Financial Privilege *and* Hidden Repression.

Fifty years ago, governments could not easily monitor or control the economy at the level of the individual. Most daily transactions across the planet were still conducted through cash, or maybe paper check, did not immediately register in a database, and could not be used to model

How are we feeling?

What is Crypto?

- Digital or virtual currency
- Uses cryptography for security
- Can be centralized or decentralized
- Stablecoins have emerged as an obvious use case

Stablecoins

Stablecoins are the most successful non-Bitcoin digital assets today

If Bitcoin is digital gold, stablecoins are digital U.S. dollars

Fed Gov. Christopher Waller

Stablecoins are: "a type of digital asset designed to maintain a stable value relative to a national currency and backed at least one-to-one with safe and liquid assets."

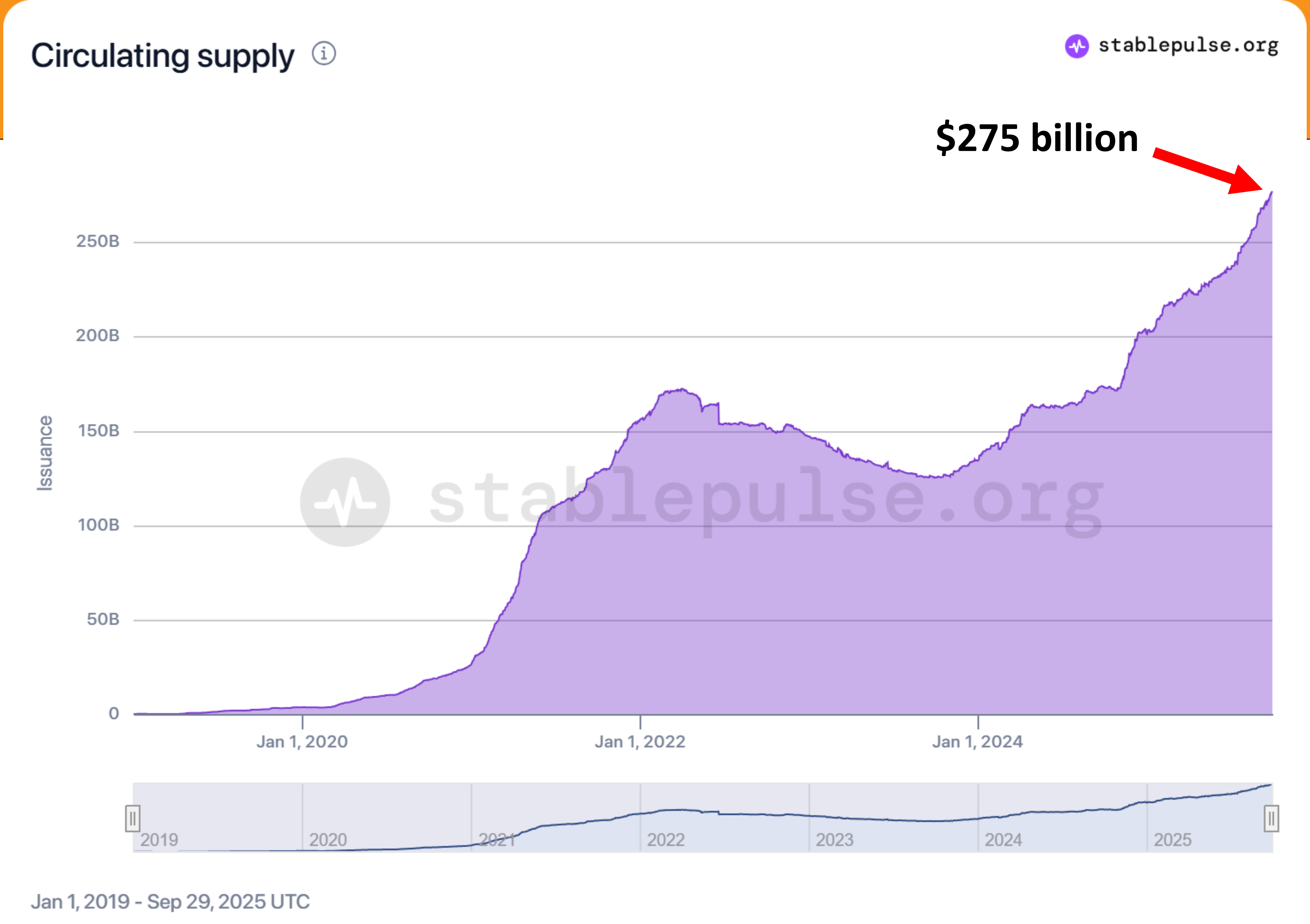
"Reflections on a Maturing Stablecoin Market" Feb 2025 — https://www.federalreserve.gov/newsevents/speech/waller20250212a.htm

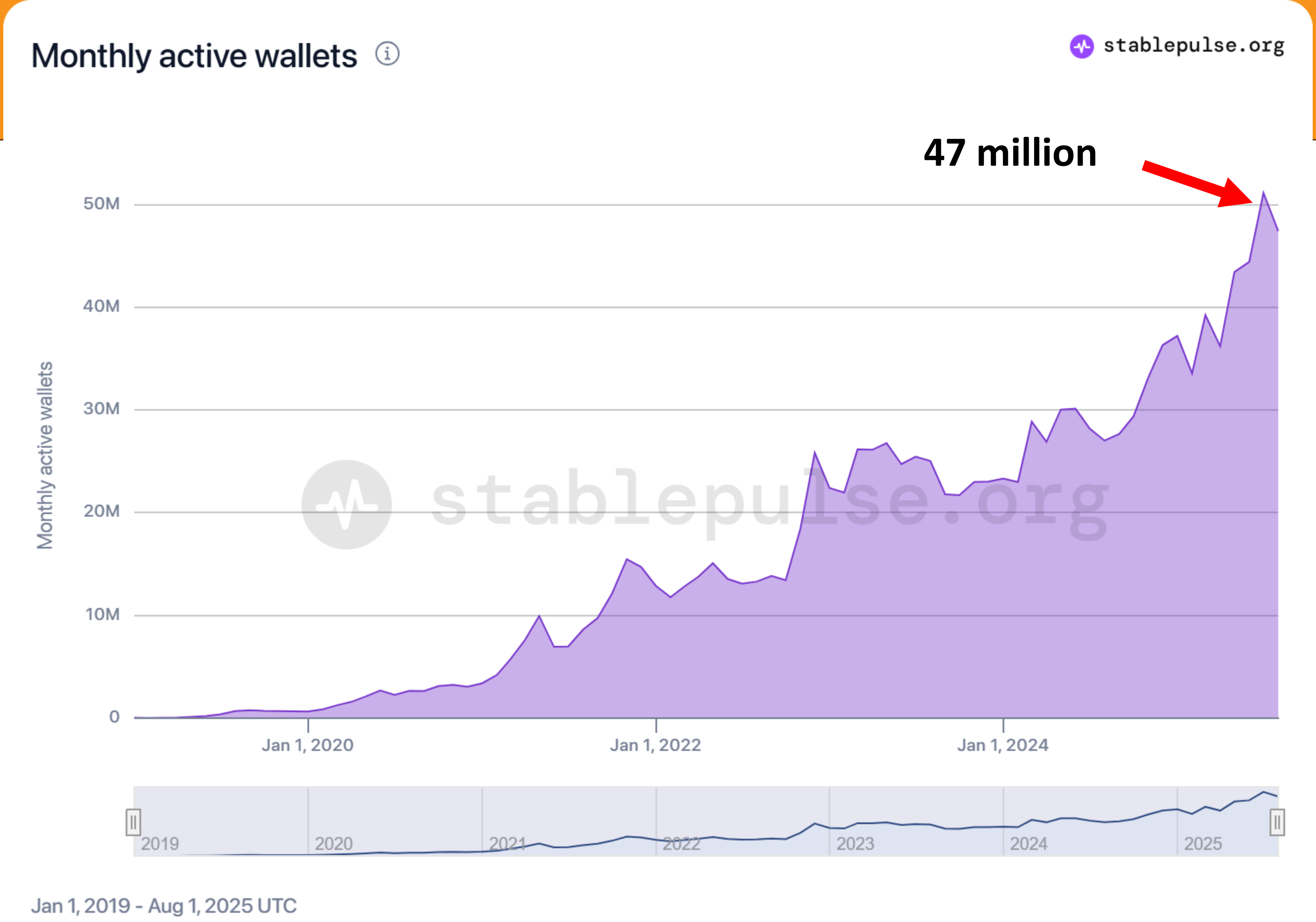
Problems Solved by Stablecoins

- Facilitating digital asset transactions
- Expanding access to U.S. dollars globally
- Cross-border payments

Two Largest Stablecoins

- USDT (Tether)
- USDC (Circle)


Circulating supply
stablepulse.org
$275 billion
250B
200B
150B
100B
50B
0
Issuance
Jan 1, 2020
Jan 1, 2022
Jan 1, 2024
2019
2020
2021
2022
2023
2024
2025
Jan 1, 2019 - Sep 29, 2025 UTC


Monthly active wallets
stablepulse.org
47 million
50M
40M
30M
20M
10M
0
Monthly active wallets
Jan 1, 2020
Jan 1, 2022
Jan 1, 2024
2019
2020
2021
2022
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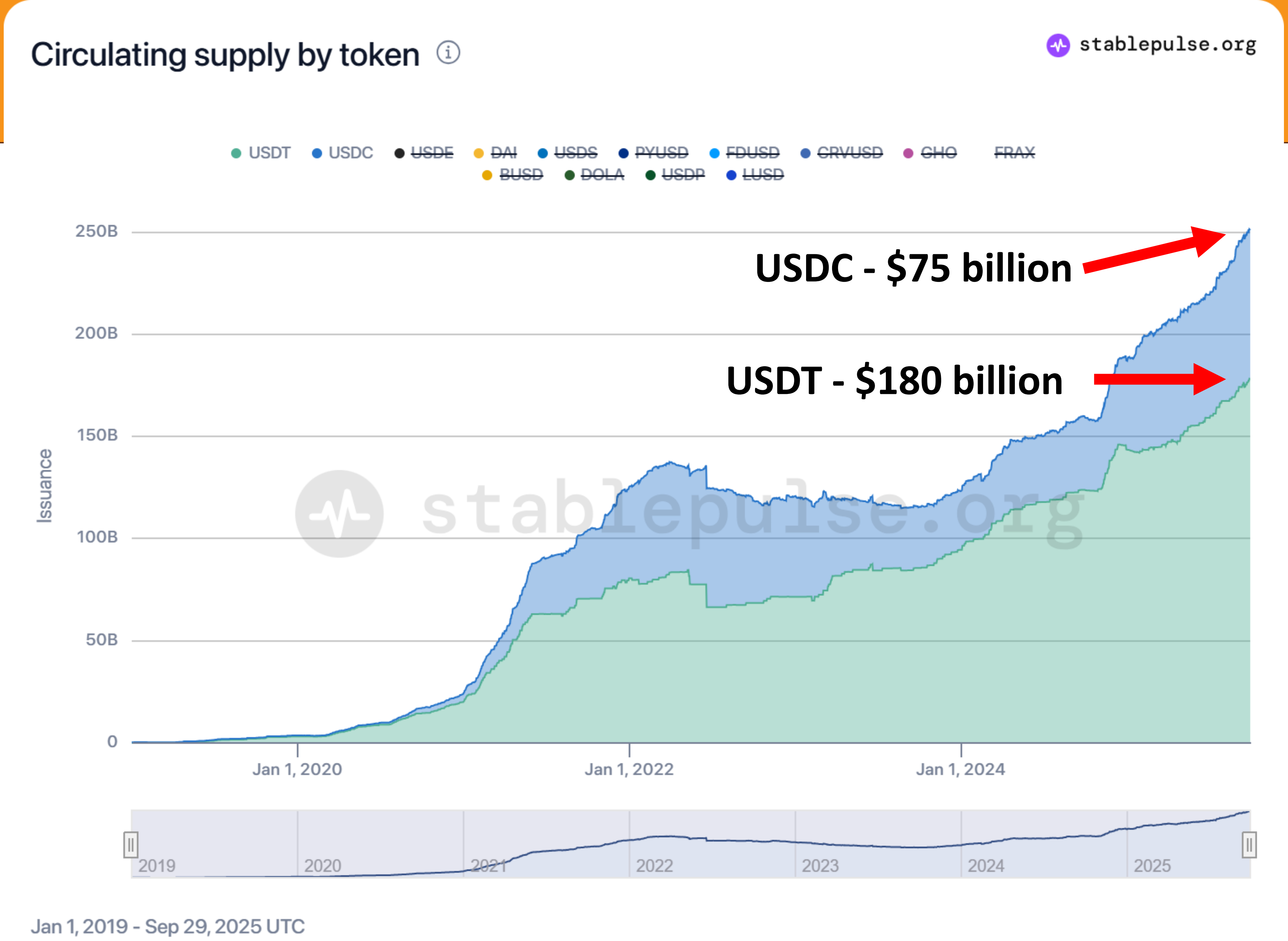
2024
2025
Jan 1, 2019 - Aug 1, 2025 UTC


Circulating supply by token
stablepulse.org
USDT
USDC
~~USDE~~
~~DAI~~
~~USDS~~
~~PYUSD~~
~~FDUSD~~
~~CRVUSD~~
~~GHO~~
~~FRAX~~
~~BUSD~~
~~DOLA~~
~~USDP~~
~~LUSD~~
250B
200B
150B
100B
50B
0
Issuance
Jan 1, 2020
Jan 1, 2022
Jan 1, 2024
2019
2020
2021
2022
2023
2024
2025
USDC - $75 billion
USDT - $180 billion
Jan 1, 2019 - Sep 29, 2025 UTC

Highly Profitable

- $87 million of profit per employee in 2024
- Second place, Nvidia, had ~$2 million per employee

Business Model?

- Issue stablecoin to the market, obtain deposits
- Invest deposits in interest-earning assets
- Profit from the spread

What Could Go Wrong?

- What significant risk do these companies run?
- A reduction in interest rates…

Regulatory Landscape

- GENIUS Act (Passed, July 2025)
- Bitcoin Strategic Reserve
- Comprehensive Market Structure (FIT21)

Consider These Uses

- The relative stability of the U.S. dollar
- International remittances
- In-country staff salaries
- Expanding donor base beyond the U.S.

Discuss (2-3 minutes)

Which of these use cases (USD stability, remittances, in-country salaries, expanding donor base) is most relevant to your organization?

What would be your first hesitation or question about implementing it?

Caution – Be Vigilant

- Read their filings
- Always verify what backs a given stablecoin
- Use only regulated companies/assets
- Watch for transparency in their filings
- Ensure over-collateralization
- Stress tests

Real-World Example

Bert Morrison from Water Mission in Honduras

Reach out!

Cody Hall

chall@sonsetsolutions.org

Bert Morrison

bmorrison@watermission.org