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#### State of Crypto 2024

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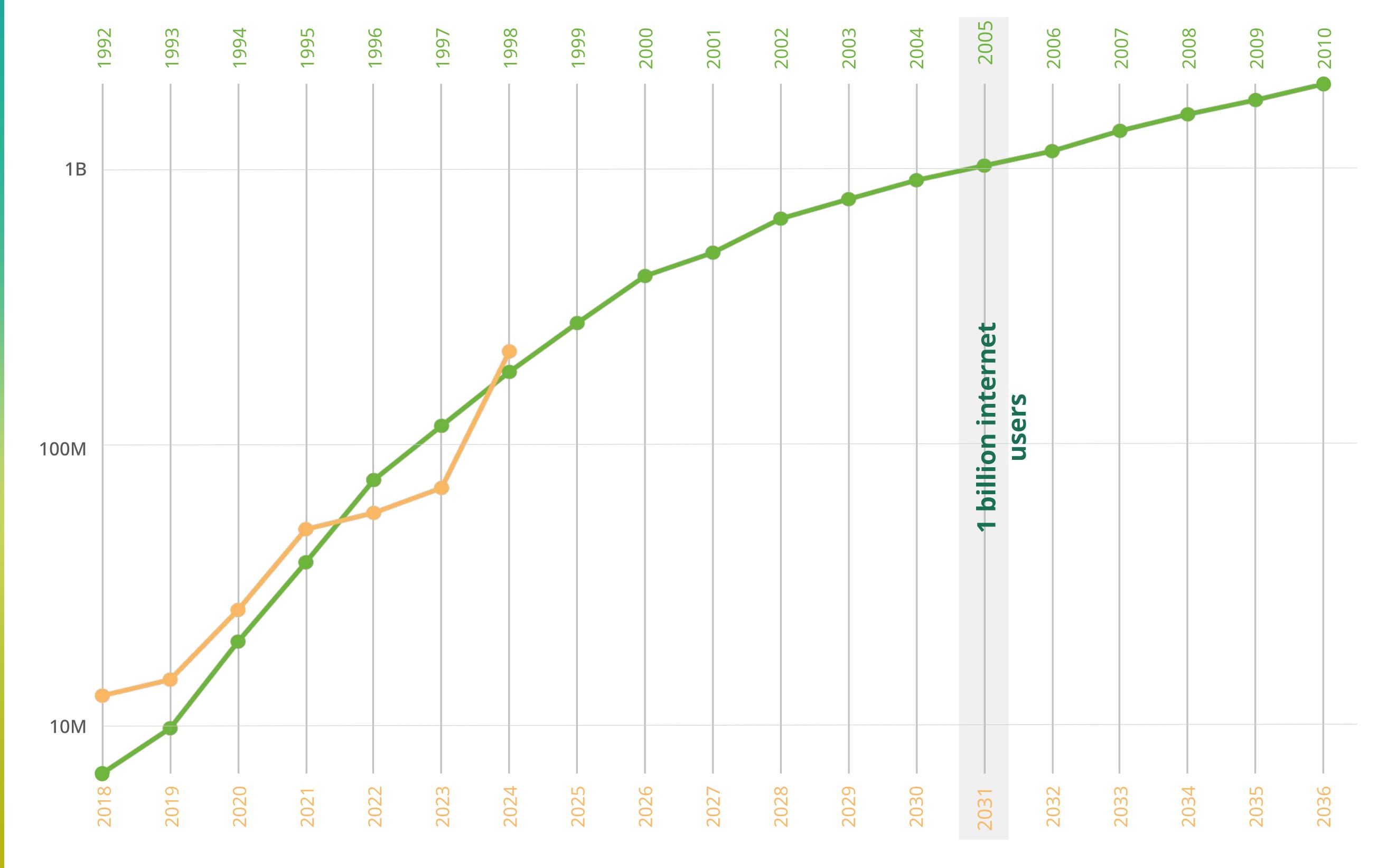
## How big is crypto today?

#### Monthly active addresses hit an all-time high of 220 million with growth reminiscent of early internet adoption

Note: One address does not necessarily correspond to one person. For more on how we think about active addresses and users see <a href="here">here</a>.

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#### Internet users<sup>1</sup> vs. monthly active crypto addresses<sup>2</sup> (log scale)



Unique sending addresses as of Dec. of each year; 2024 as of Sept. Blockchains include Aptos, Arbitrum, Avalanche C-Chain, Base, Bitcoin, Blast, BNB Chain, Celo, Ethereum, Fantom, Linea, Near, OP Mainnet, Polygon PoS, Scroll, Solana, Sui, TON, Tron, zkSync, and Zora. EVM addresses active on multiple chains only contribute once to the total.

# Addresses are proliferating across many blockchains, with Base and Solana as the most active

Note: One address does not necessarily correspond to one person. For more on how we think about active addresses and users see <a href="here">here</a>.

#### Monthly active crypto addresses

**Ethereum Virtual Machine (EVM) chains:** 



Non-EVM chains: 174M

Base: 22M BNB Chain: 10M Ethereum: 6M Polygon PoS: **5M** Arbitrum: 3M OP Mainnet: 1M Celo: 1M Linea: 1M Scroll: 900K zkSync: 800K Fantom: 400K Avalanche C-Chain: 400K Zora: **300K Blast: 200K** 

NEAR: 31M M

Tron: 14M

Bitcoin: 11M

TON: 10M

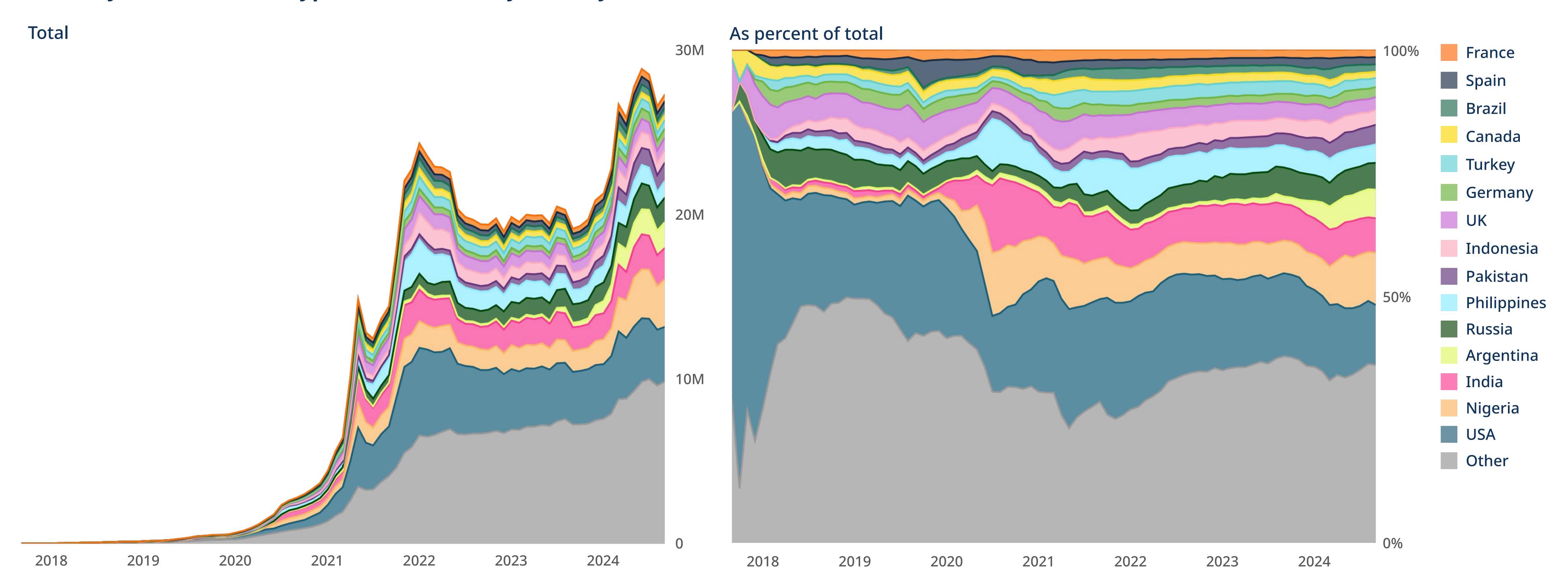
Sui: 5M

Aptos: 4M

### 220+ million Monthly active addresses

## Mobile wallet use hit record highs, driven by growth in countries such as Nigeria, India, and Argentina

#### Monthly active mobile crypto wallet users by country



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#### We estimate that only 5–10% of crypto owners are active users there's a big opportunity to re-engage passive holders onchain

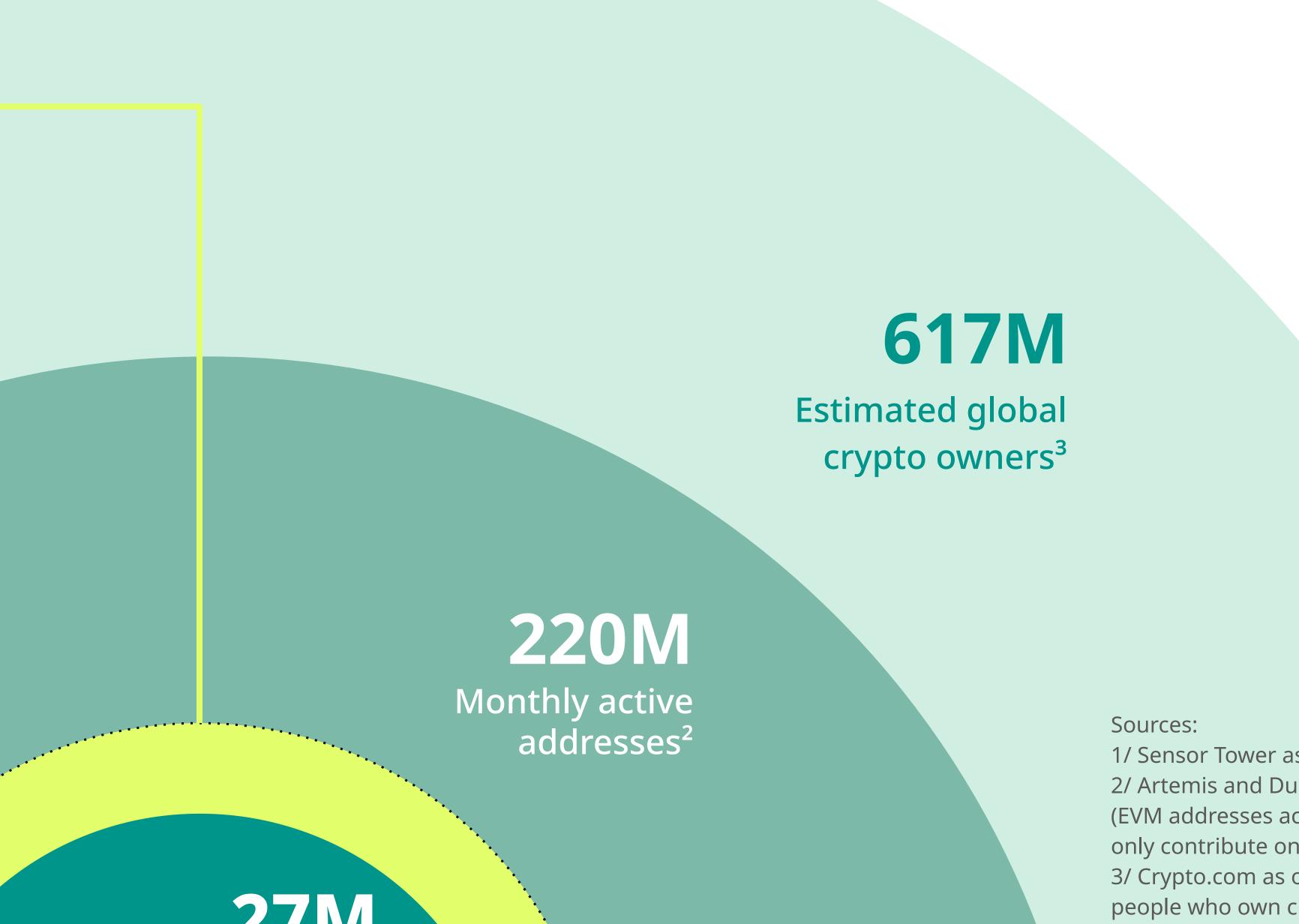
### 30-60M **Estimated monthly** active users<sup>4</sup>

#### How do we estimate crypto users?

1/ Apply filtering and de-duplication to active addresses to remove bots and transient addresses.

2/ Extrapolate using reported wallet users (e.g., Metamask) and mobile wallet market share data.

For more on how we think about active addresses and users see <u>here</u>.



27M Monthly mobile wallet users<sup>1</sup>

1/ Sensor Tower as of Sept 2024 2/ Artemis and Dune as of Sept 2024 (EVM addresses active on multiple chains only contribute once to the total) 3/ Crypto.com as of June 2024 (refers to people who own crypto, but are not necessarily transacting onchain) 4/ a16zcrypto.com/posts/article/ estimating-crypto-users/

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## Crypto has become a key political issue



"We will partner together to invest in America's competitiveness, to invest in America's future. We will encourage innovative technologies like AI and digital assets while protecting consumers and investors."



"This afternoon I'm laying out my plan to ensure that the United States will be the crypto capital of the planet and the bitcoin superpower of the world and we'll get it done."

> Vice President Kamala Harris

> Sen. Chuck Schumer (D-NY)

> Sen. Kirsten Gillibrand (D-NY)



> Republican presidential candidate Donald Trump



"We all believe in the future of crypto....I want to bring members on both sides of the aisle here in the Senate together...so we can pass sensible [crypto] legislation that helps the United States maintain its status as the most innovative country in the world."



"The U.S. has always been a financial leader, but we're on the brink of being left behind in the digital asset race....now Congress needs to pass essential legislation to secure our financial future."

> Sen. Cynthia Lummis (R-WY)



"We've been working hard to develop a comprehensive cryptocurrency framework that enables entrepreneurs and businesses to innovate responsibly while also protecting consumers and cracking down on bad actors."



"Regardless of the outcome, I expect you to see digital asset legislation start to move in both bodies....I think it is 'when,' not 'if,' regardless of who's in charge."

Majority Whip Tom Emmer (R-MN)



"These [crypto builders] are focused on innovating and creating jobs in the U.S. An already difficult task made tougher without clear guardrails or regulation."



"We'll continue fighting for rules and regulations for digital assets that promote innovation, protect consumers, and keep opportunity here in America, not overseas."

> Sen. Tim Scott (R-S.C.)

> Rep. Ro Khanna (D-CA)

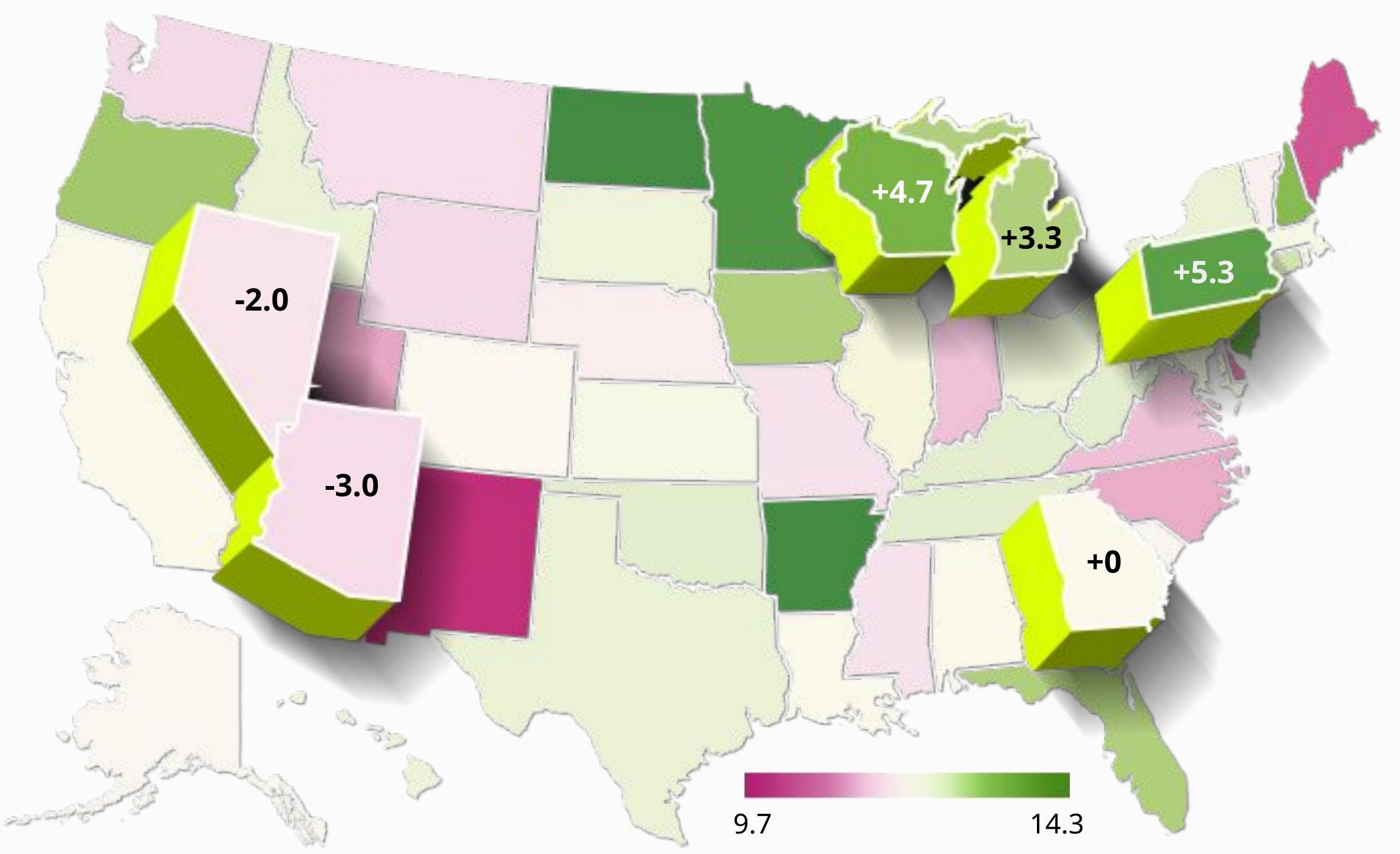
and Republicans recognize the opportunity for crypto and are ready to pass bipartisan legislation

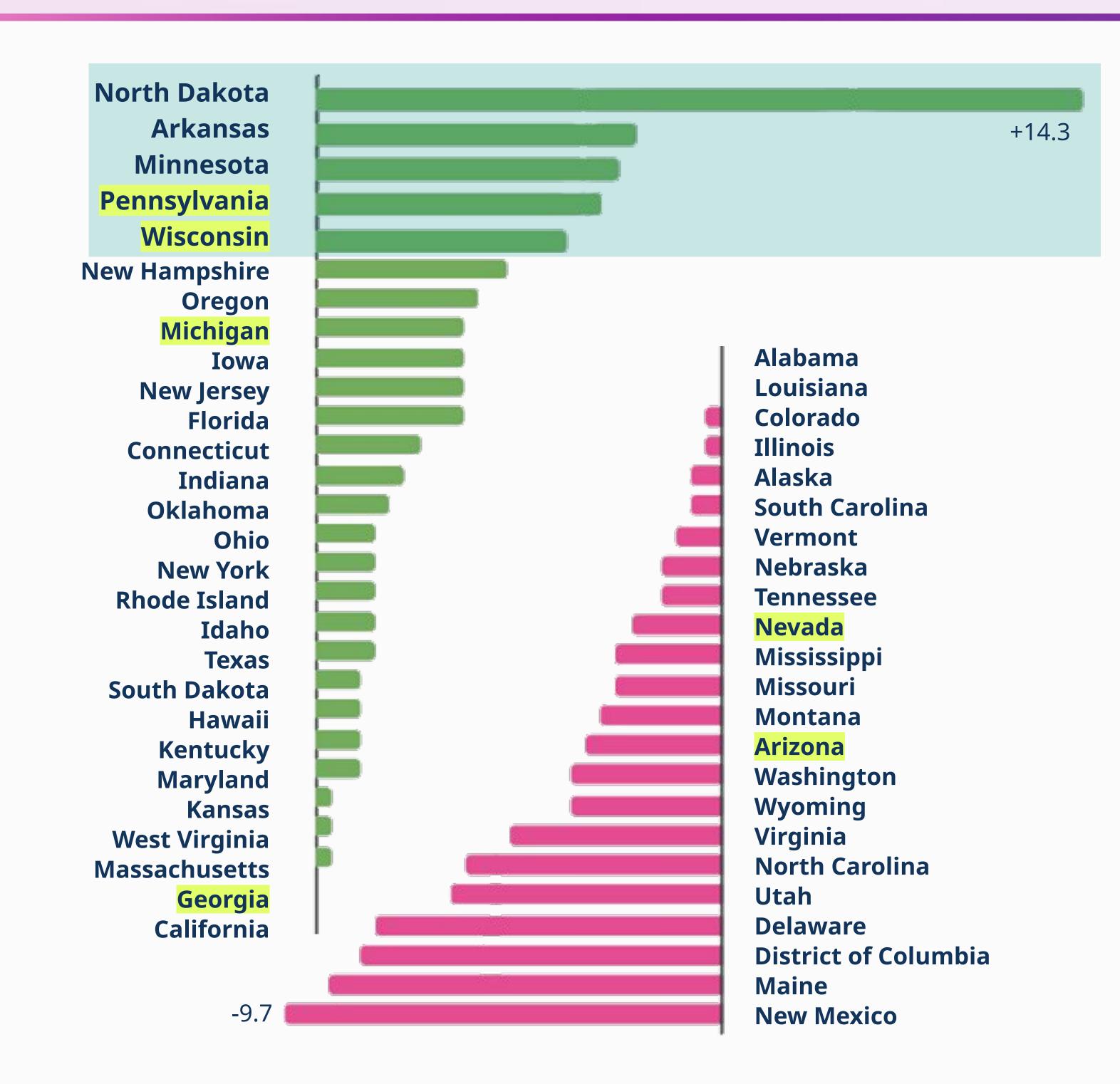
Democrats

## Crypto interest is rising in several swing states — Pennsylvania and Wisconsin see Top 5 biggest jumps

#### Crypto search interest (as a proportion of total searches in each state)

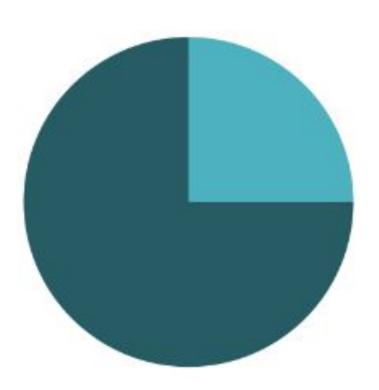
Change in rank from 2020-2024<sup>1</sup>



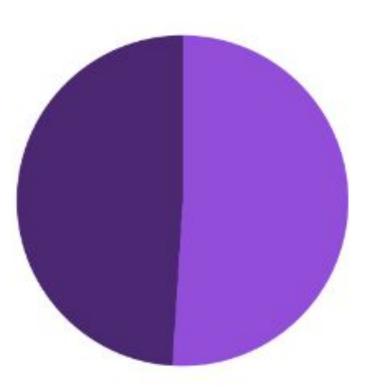




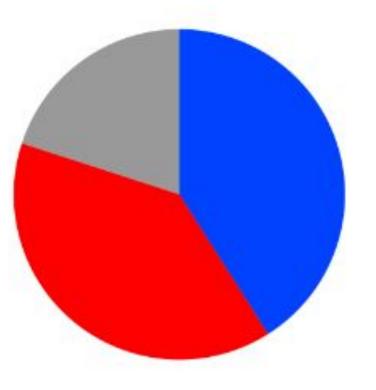
40+ million Americans own crypto<sup>1</sup> — they are young, bipartisan, and supportive of pro-crypto candidates



25% of Americans aged 18-34 own crypto

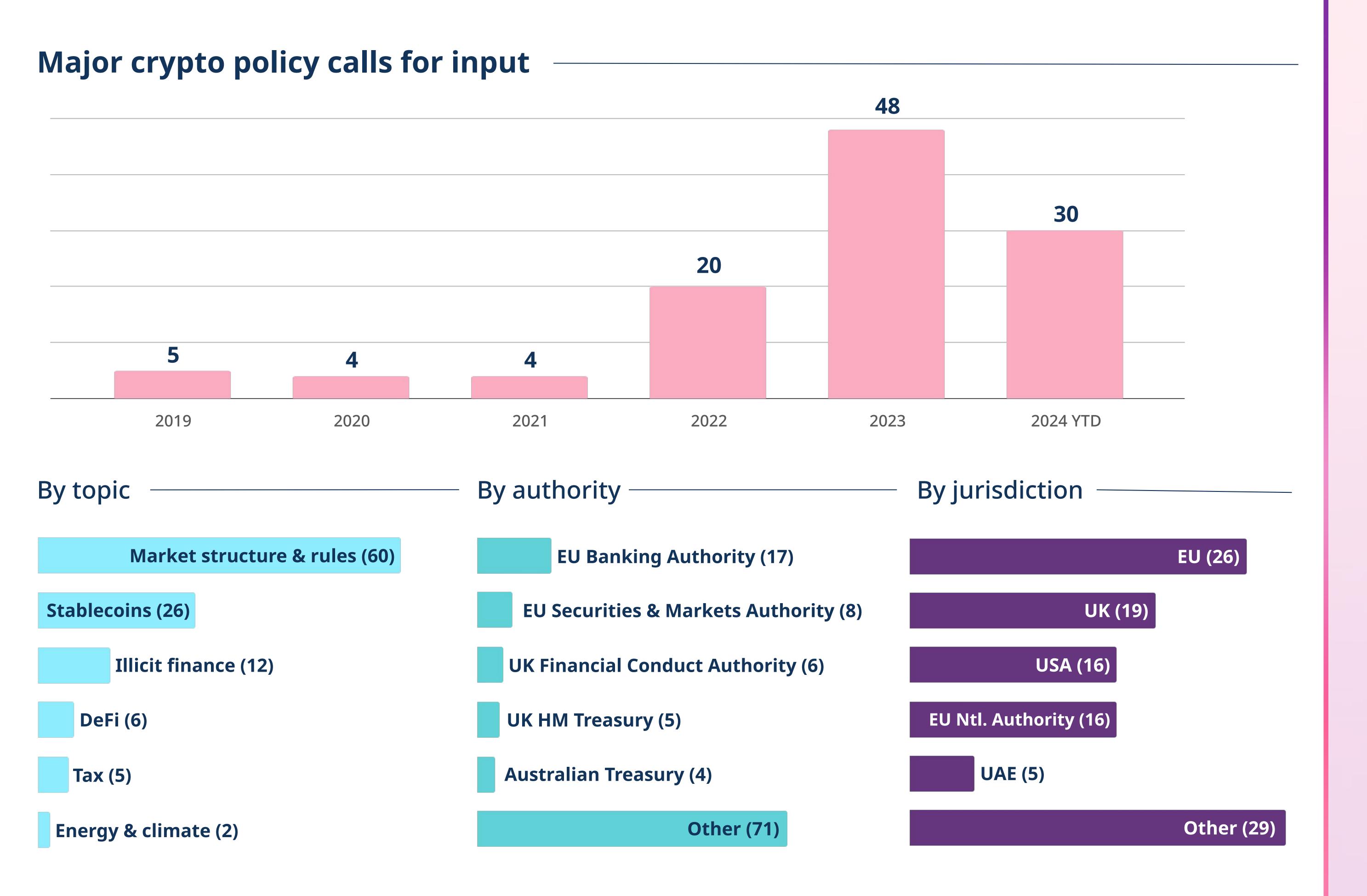


51% say they're likely to throw their weight behind crypto-friendly candidates



In swing states, 41% identify as Democrats, 39% identify as Republicans, and 20% identify as Independent or Other

1/ Source: Morning Consult as of April 2024. Reports from Pew Research in 2021, 2022, and 2023 provide a similar estimate, a figure the White House also used in a 2022 fact sheet. However, a 2024 Federal Reserve study based on data from 2023 reports that the number may be slightly lower at 18 million.



The EU and UK lead when it comes to public engagement on crypto policy and regulation

## The crypto industry is on a path toward more regulatory clarity after some major policy wins in 2024



Wyoming Decentralized
Unincorporated Nonprofit
Association Act (DUNA)

#### **March 2024**

Signed into law with an effective date of July 1, 2024

Recognizes DAOs as legal entities, enabling blockchain networks to operate lawfully without compromising their decentralization

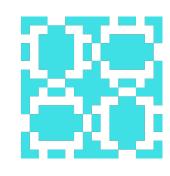


U.S. Financial Innovation and Technology for the 21st Century Act (<u>FIT21</u>)

#### **May 2024**

Passed the House with bipartisan support, including 71 Democrat votes

Provides regulatory clarity for crypto, protects consumers from bad actors, and promotes American innovation pending Senate approval



EU Markets in Crypto-Assets Regulation (MiCA)

#### December 2024

Goes fully into effect, after approval by a large majority in 2023

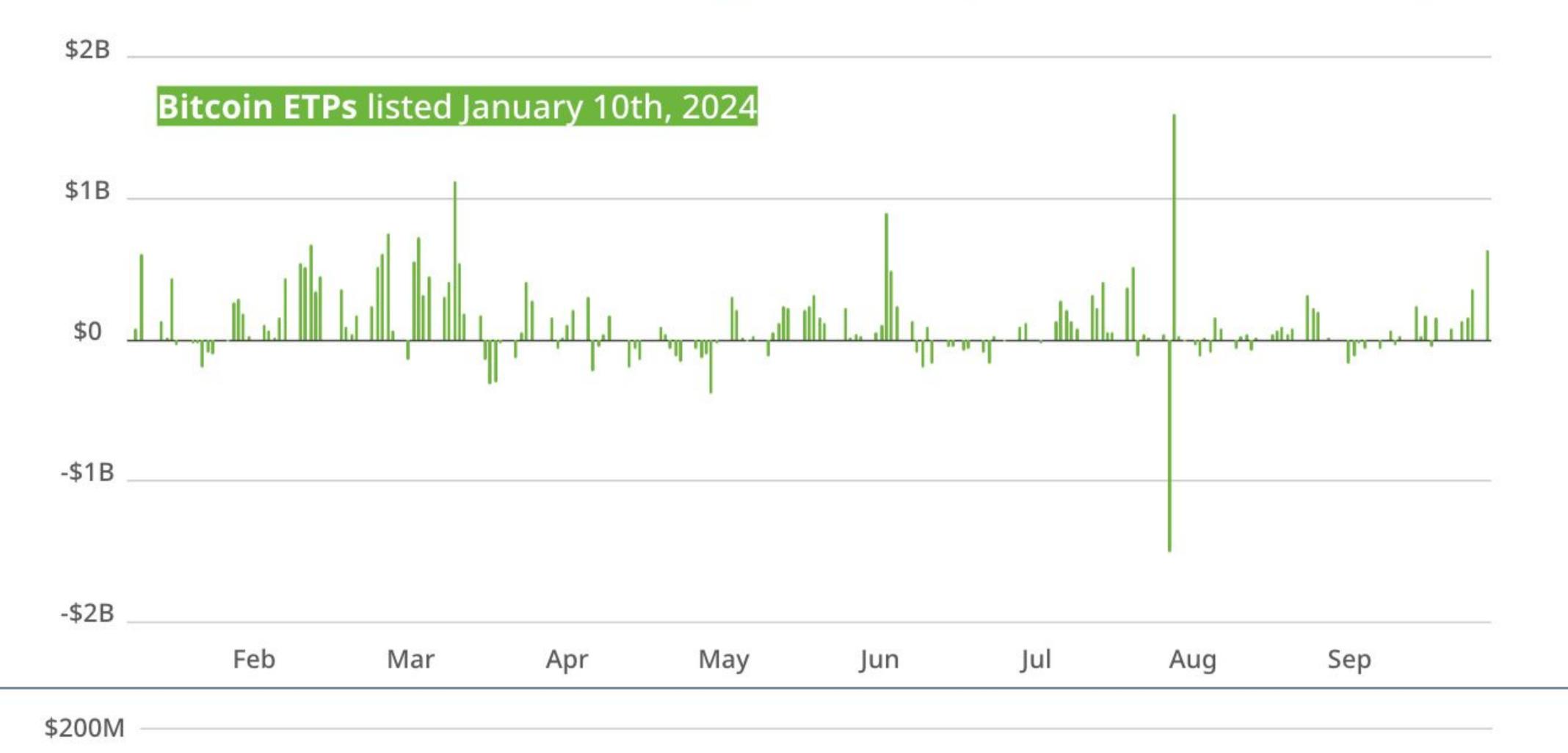
The European Union's first comprehensive regulatory framework involving crypto assets and related service providers

# The SEC's Bitcoin and Ethereum ETP approvals have broadened investor access to crypto

Note: Though commonly called ETFs, these are actually registered as <u>ETPs</u> using SEC Form S-1, indicating the underlying portfolios are not comprised of securities.

#### clózcrypto

#### Bitcoin and Ethereum exchange-traded products (ETPs) daily net flows<sup>1</sup>

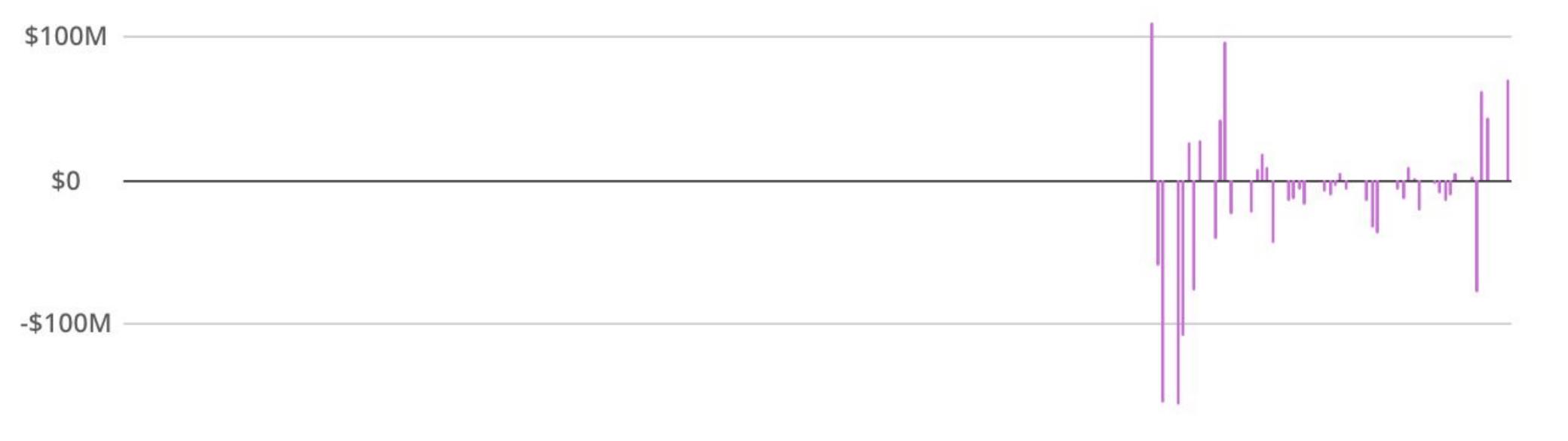


\$58B

Total onchain holdings



-\$200M



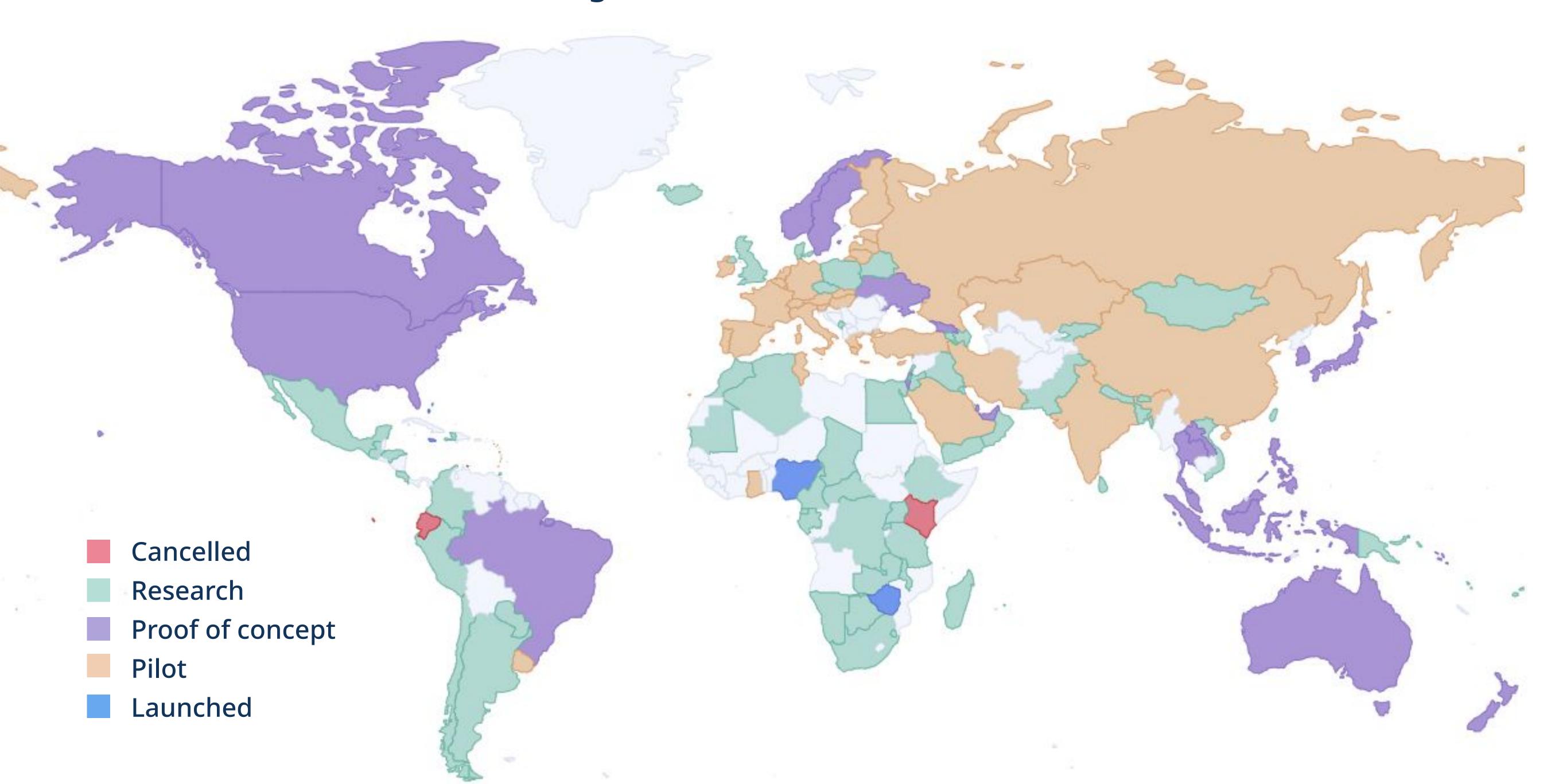
\$7B

Total onchain holdings

1/ Net flows exclude flows into pre-existing products like the Grayscale Bitcoin and Ethereum Trusts which were eventually converted to ETPs.

### The U.S. dollar faces competition from foreign sovereign digital currencies

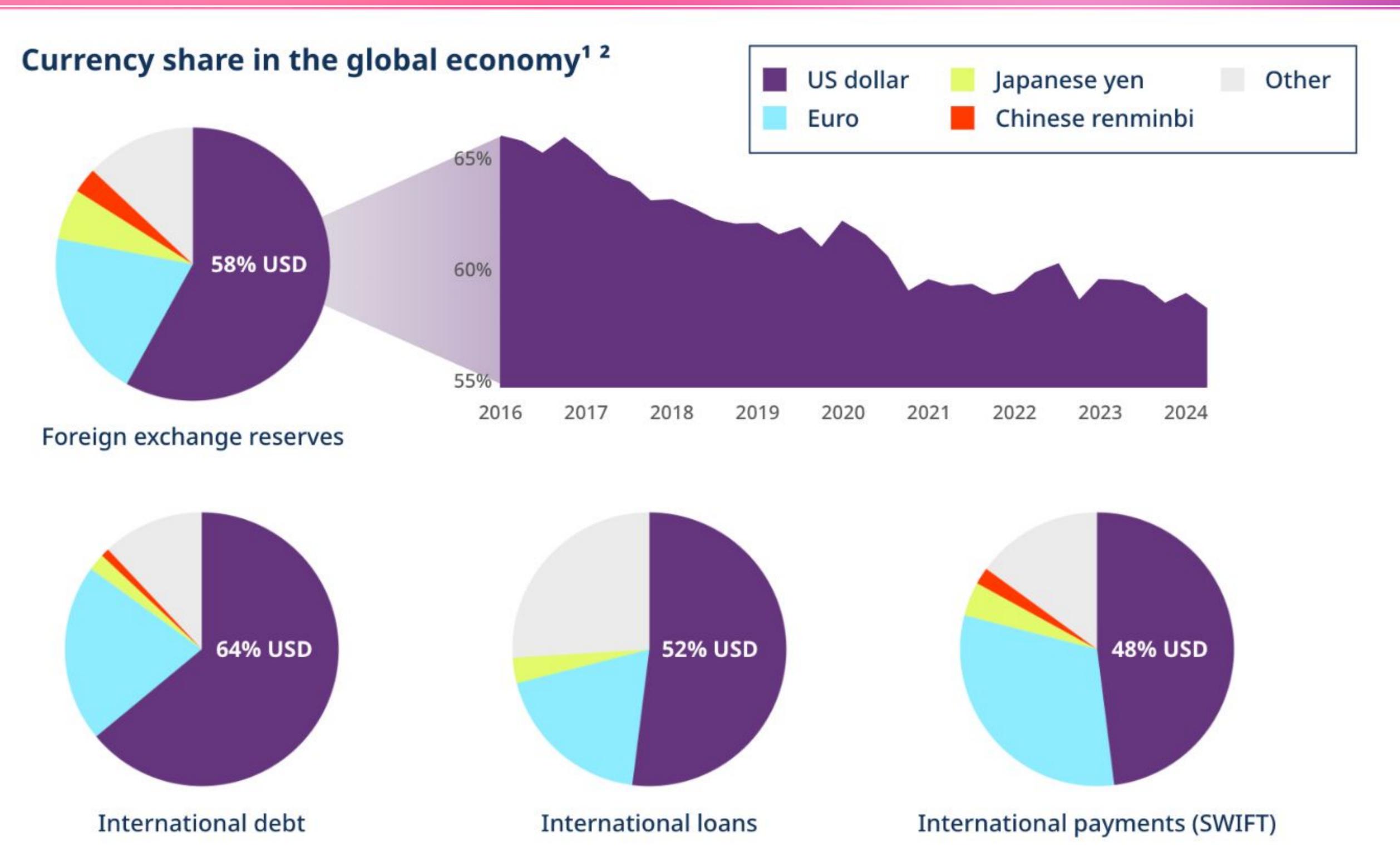
#### Status of worldwide central bank digital currencies (CBDCs)<sup>1</sup>

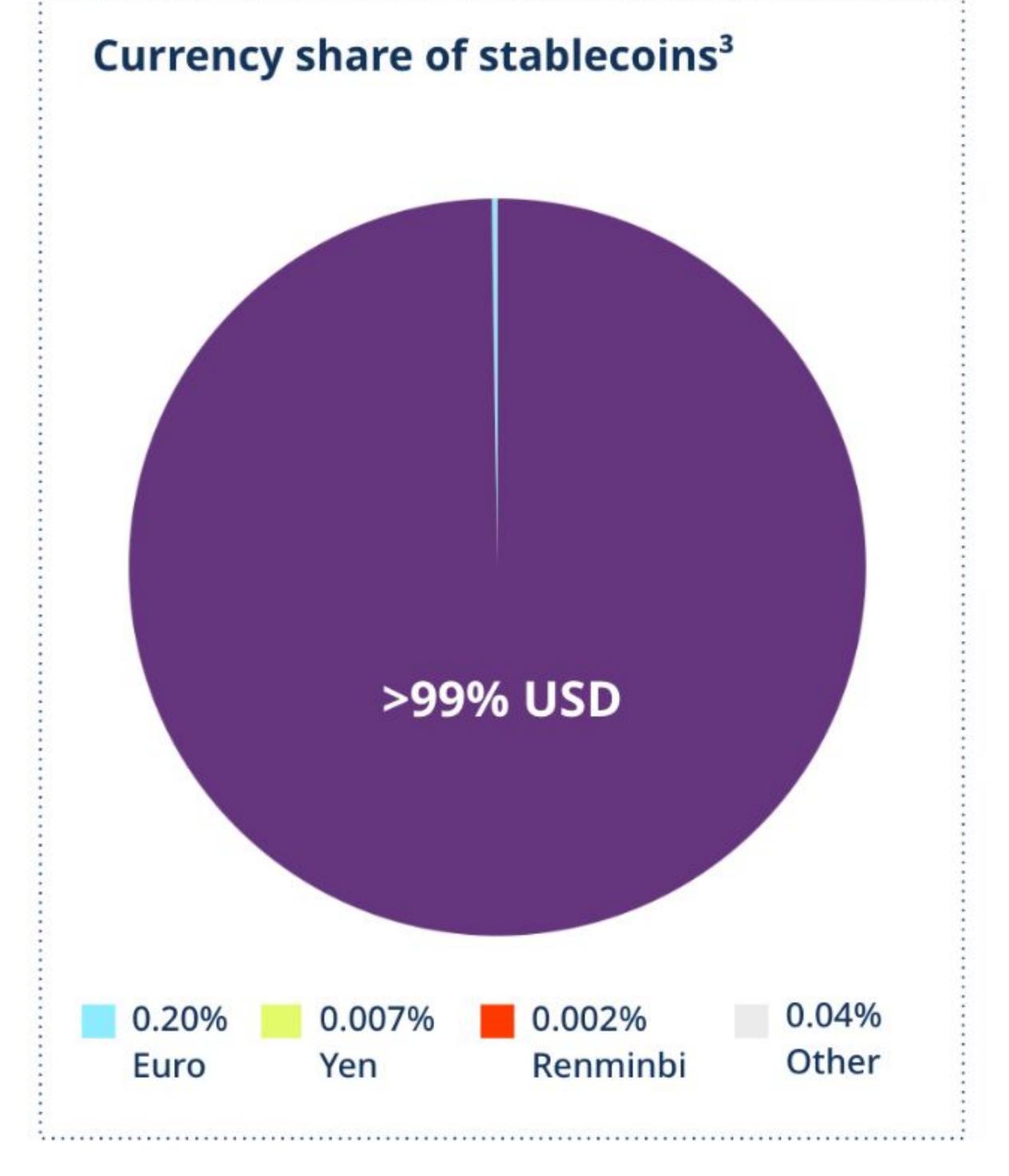


CBDC developments
between banks have
doubled since Russia's
invasion of Ukraine and
resulting sanctions.<sup>2</sup>

There are now 13 cross-border projects between banks, including mBridge, which connects Thailand, China, Hong Kong, UAE, Saudi Arabia, and others.

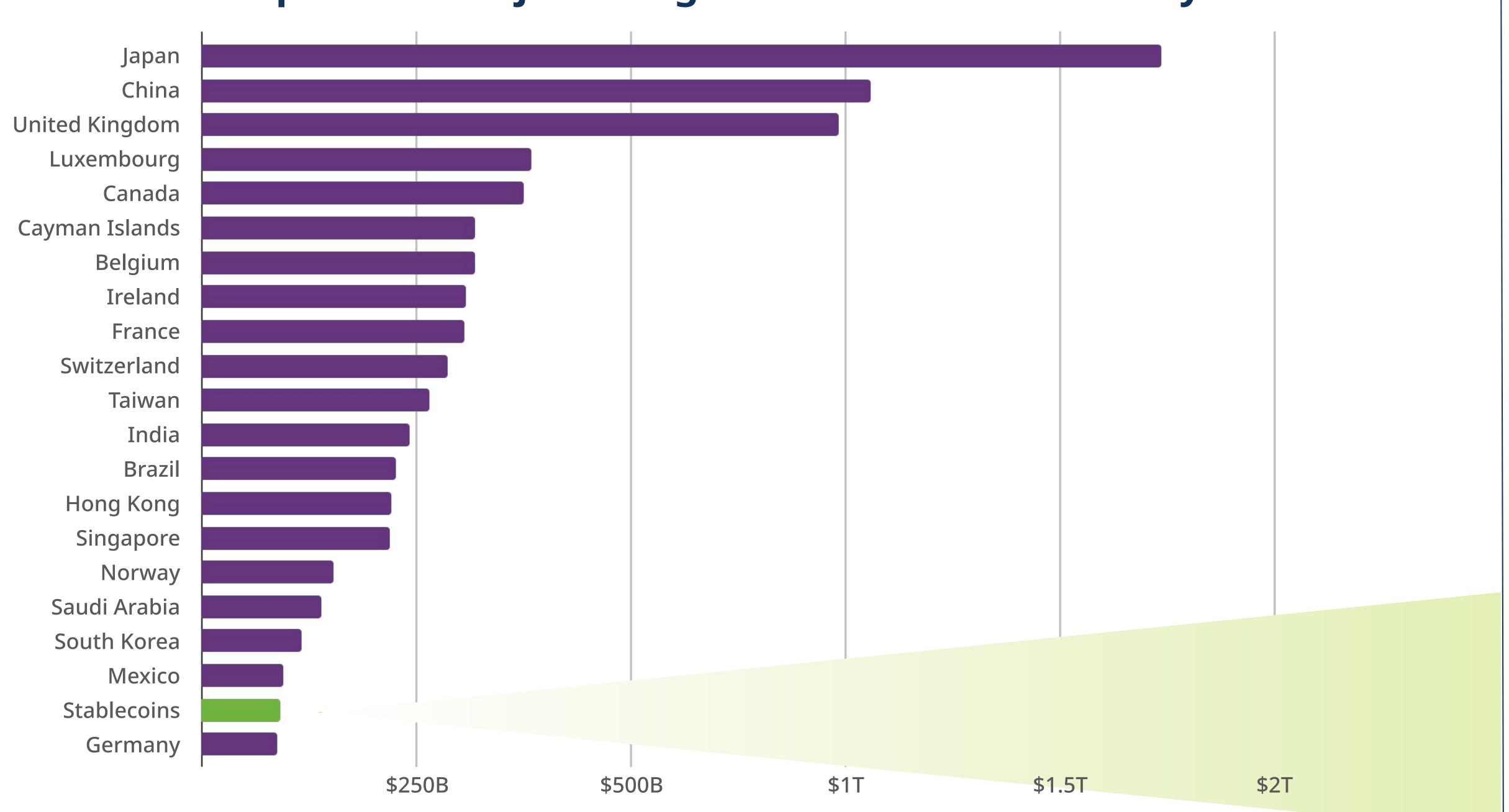
## Stablecoins can strengthen the U.S. dollar's position as its global reserve currency status slips





## Stablecoins are only a decade old — now they're a Top 20 and rising holder of U.S. debt

#### Stablecoins compared to major foreign holders of U.S. Treasury securities





\$81 billion held in U.S. Treasuries

Launched in 2014

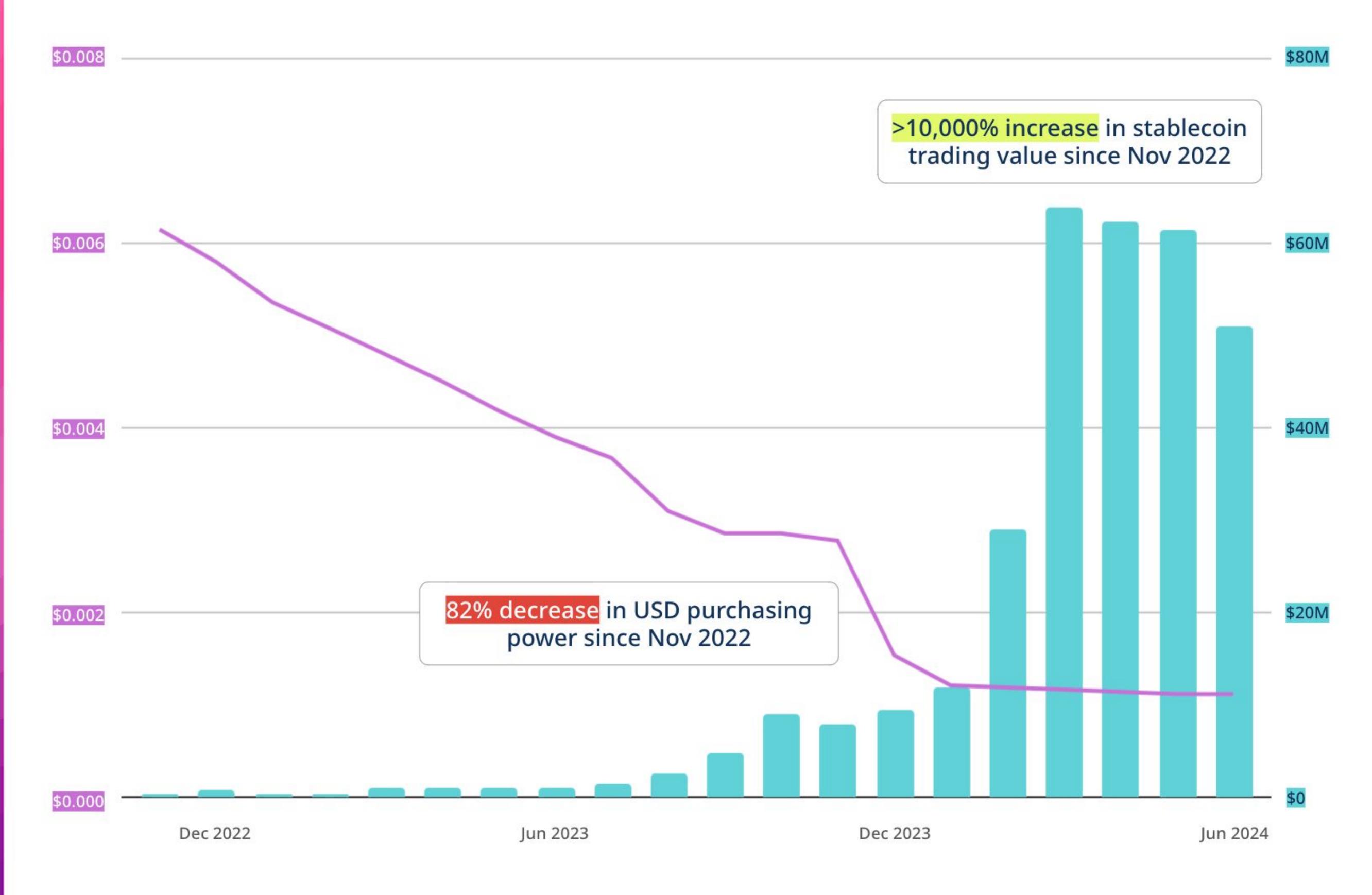


\$11 billion held in U.S. Treasuries

Launched in 2018

#### In countries with rampant inflation, people turn to stablecoins to protect their assets

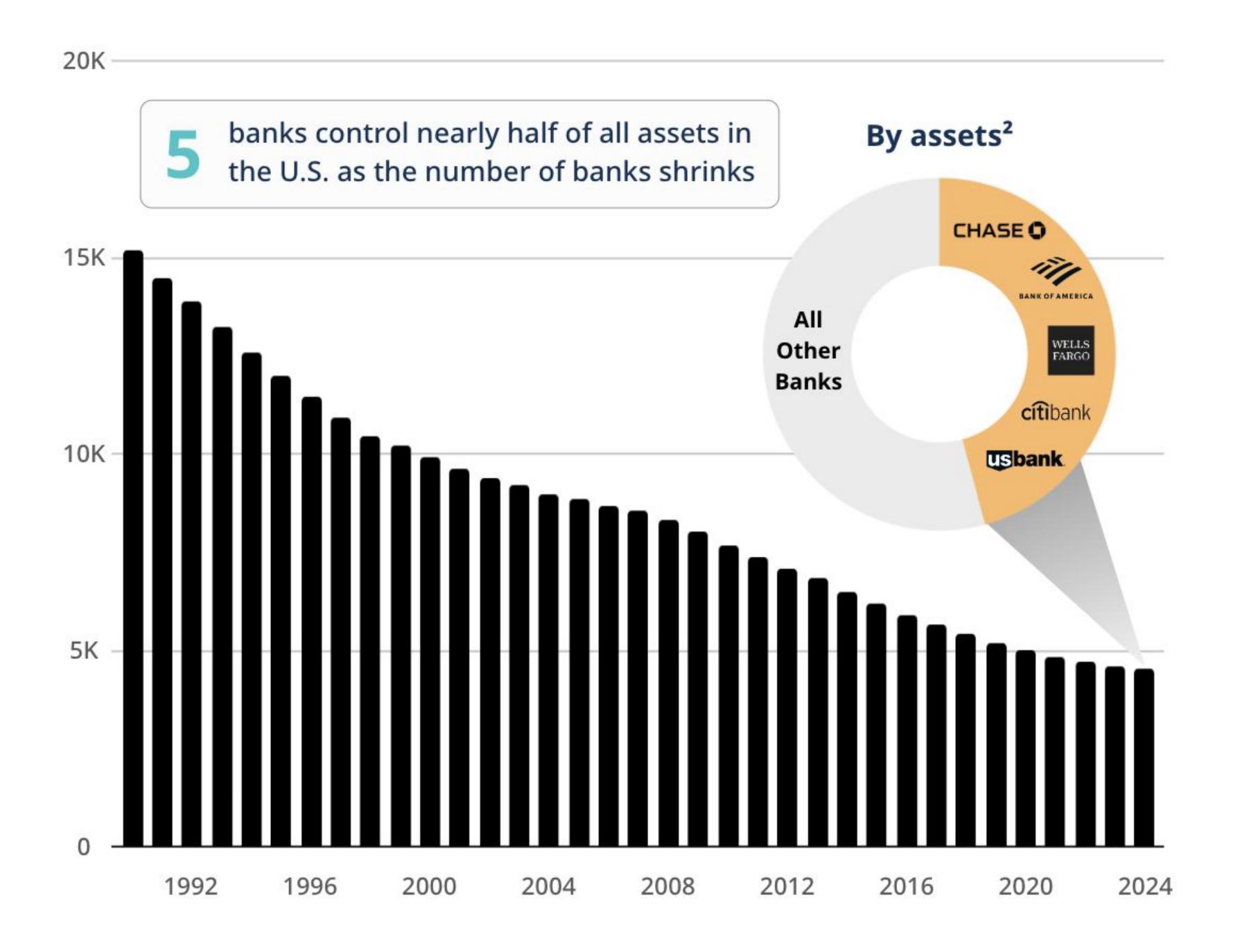
#### Argentine peso (ARS) purchasing power in USD vs. stablecoin trading value with ARS on Bitso



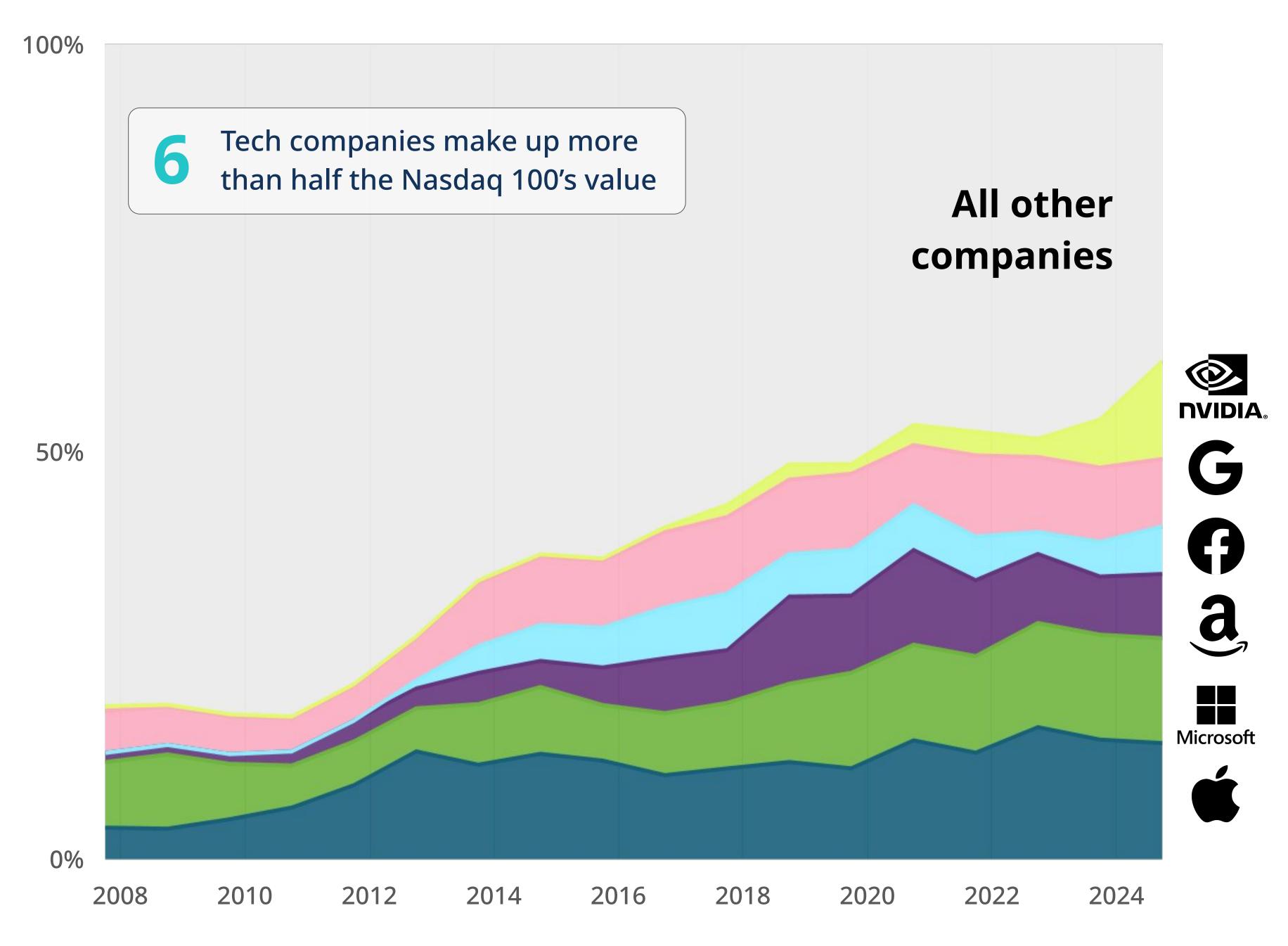
growing at a faster rate than value received in any other crypto asset, including BTC, ETH, and altcoins. Bitso is a leading regional exchange in Latin America.

## As finance and tech consolidate power in Big Banks and Big Tech, there's a growing need for decentralization

#### Number of FDIC-insured banks<sup>1</sup>



#### Market cap of the Nasdaq 100<sup>3</sup>



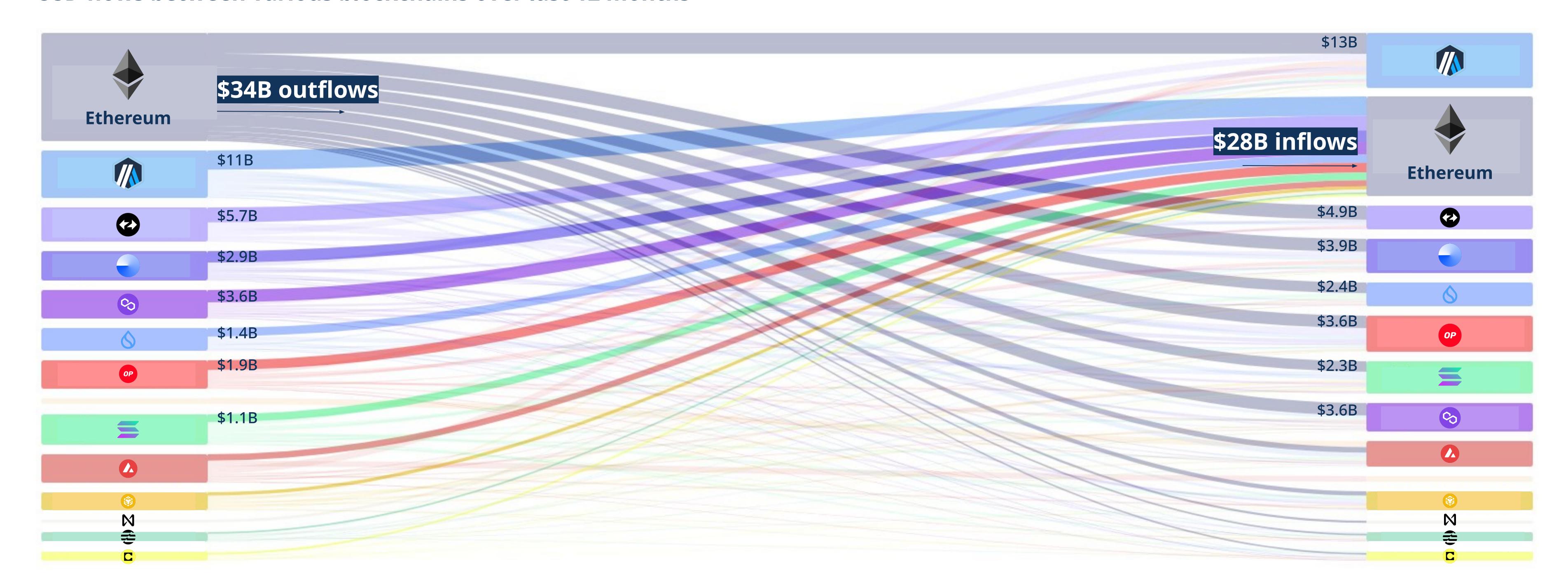
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## Infrastructure is maturing

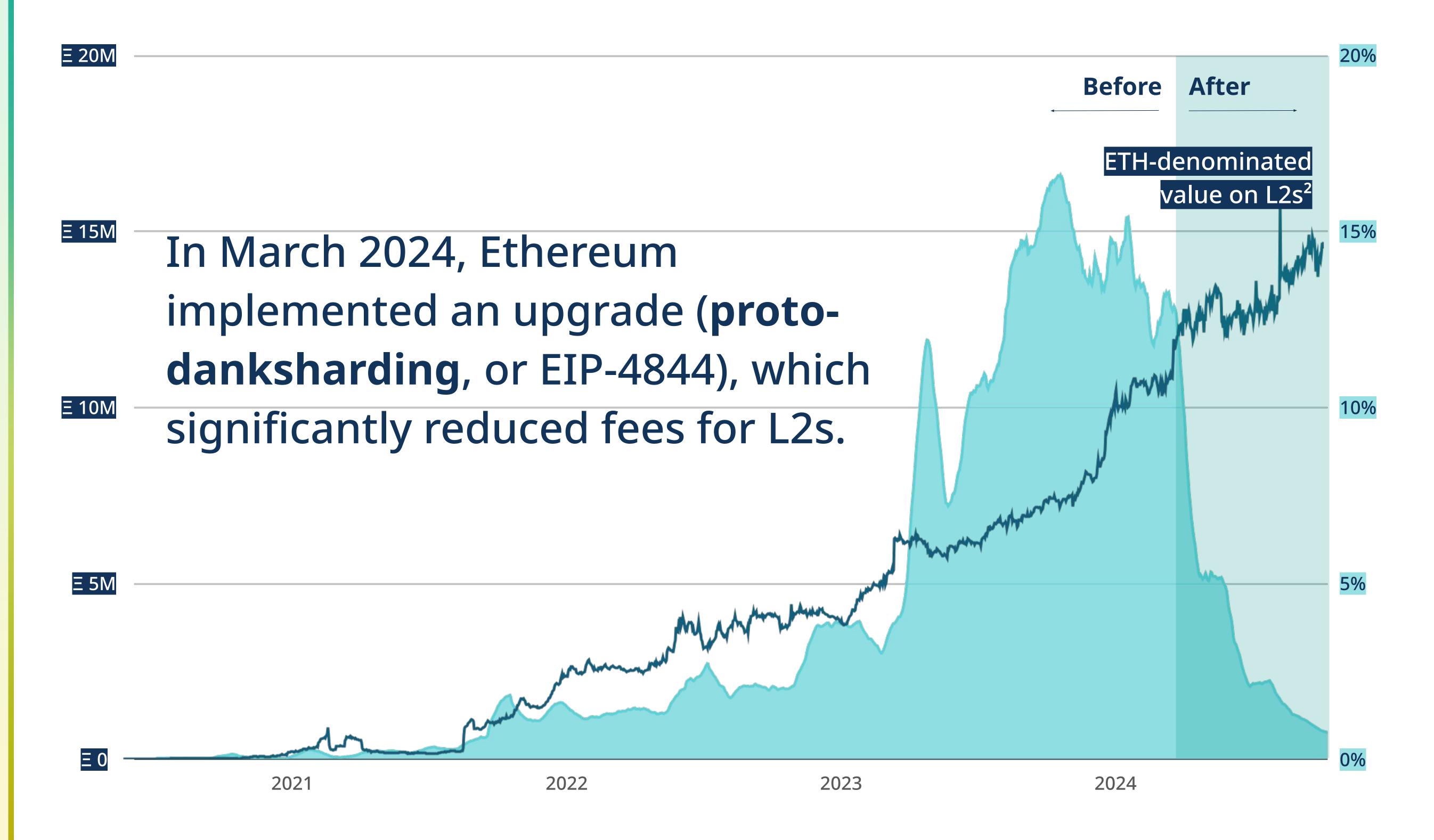
#### Crypto is multichain — with value flowing between increasingly interoperable blockchains

#### USD flows between various blockchains over last 12 months



#### Asignificant portion of Ethereum activity is moving to L2s, drastically reducing costs tor users

#### Fees paid by L2s on Ethereum (% of all L1 fees, rolling 30d avg)<sup>1</sup> before and after EIP-4844

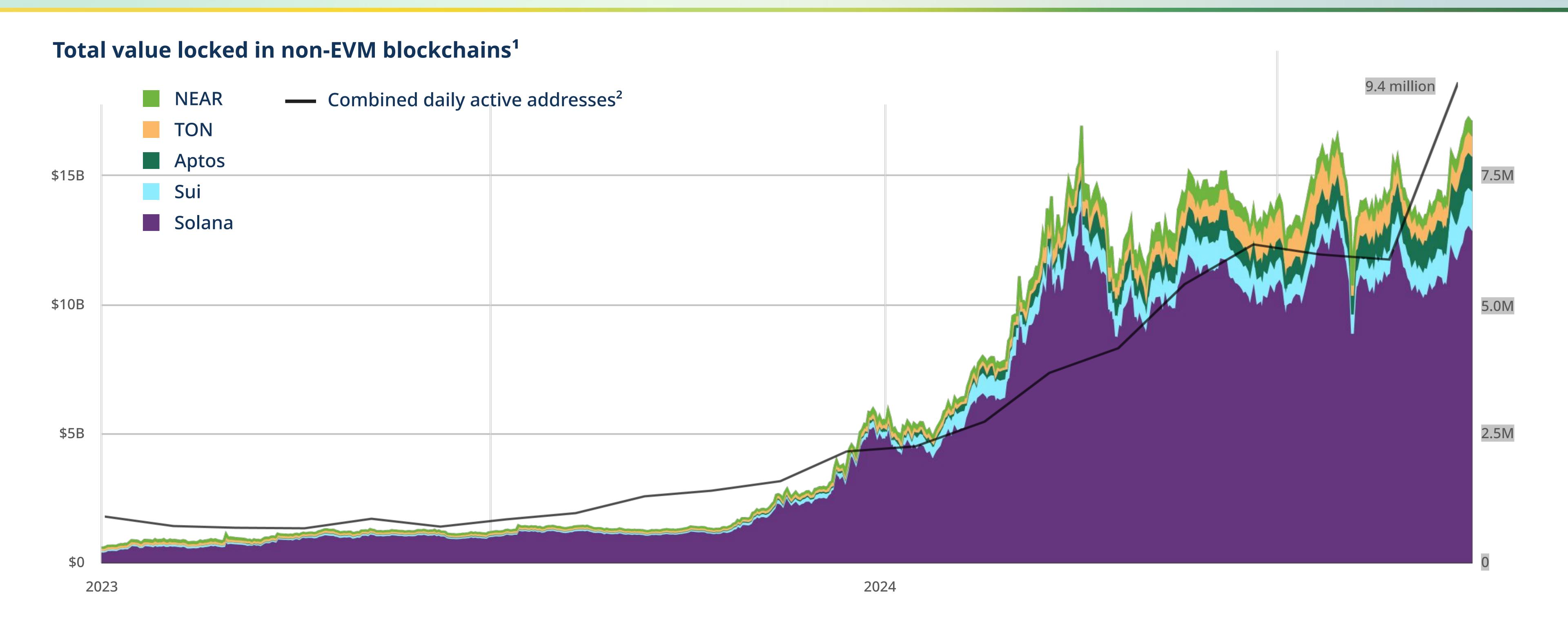


## **Cost** to send USD internationally via international wire transfer via USDC on Ethereum (2021 avg gas price) via USDC on Ethereum (Sept 2024 avg gas price) via USDC on Base L2 (<u>Sept 2024</u> avg gas price)

Ethereum scaling efforts have slashed onchain transaction costs by over

USDC is a popular stablecoin. Base is a layer two (L2) network. Gas price refers to the cost to perform a transaction. The figures above may exclude some onboarding and exit costs.

## While Ethereum is committed to L2 scaling, other high-throughput blockchains are gaining traction

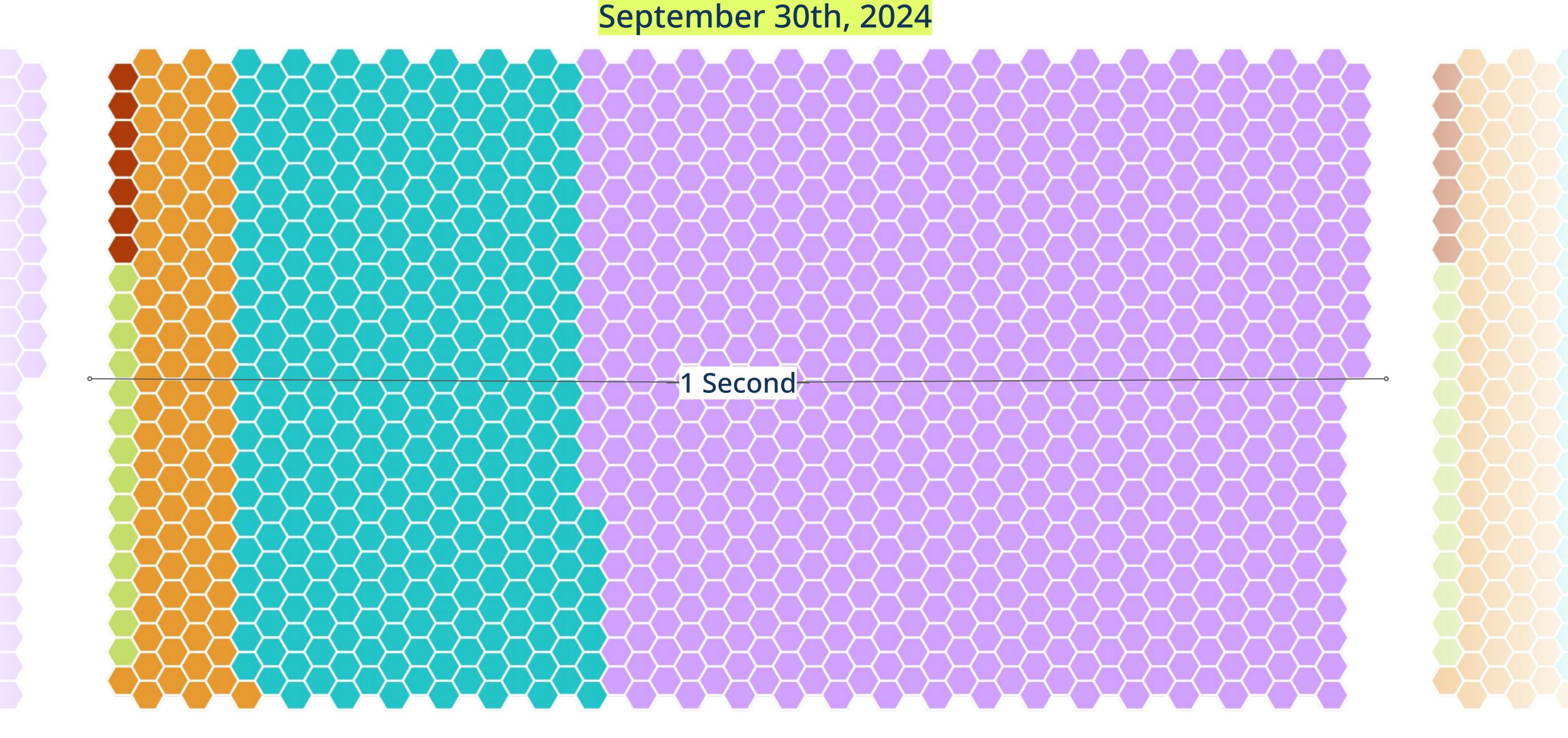




## Blockchains now process 50x as many transactions per second as they did just four years ago

Number of blockchain transactions processed per second 🛑 Bitcoin 🛑 Ethereum L1 🛑 Tron 🔵 Ethereum L2s 🔵 Solana



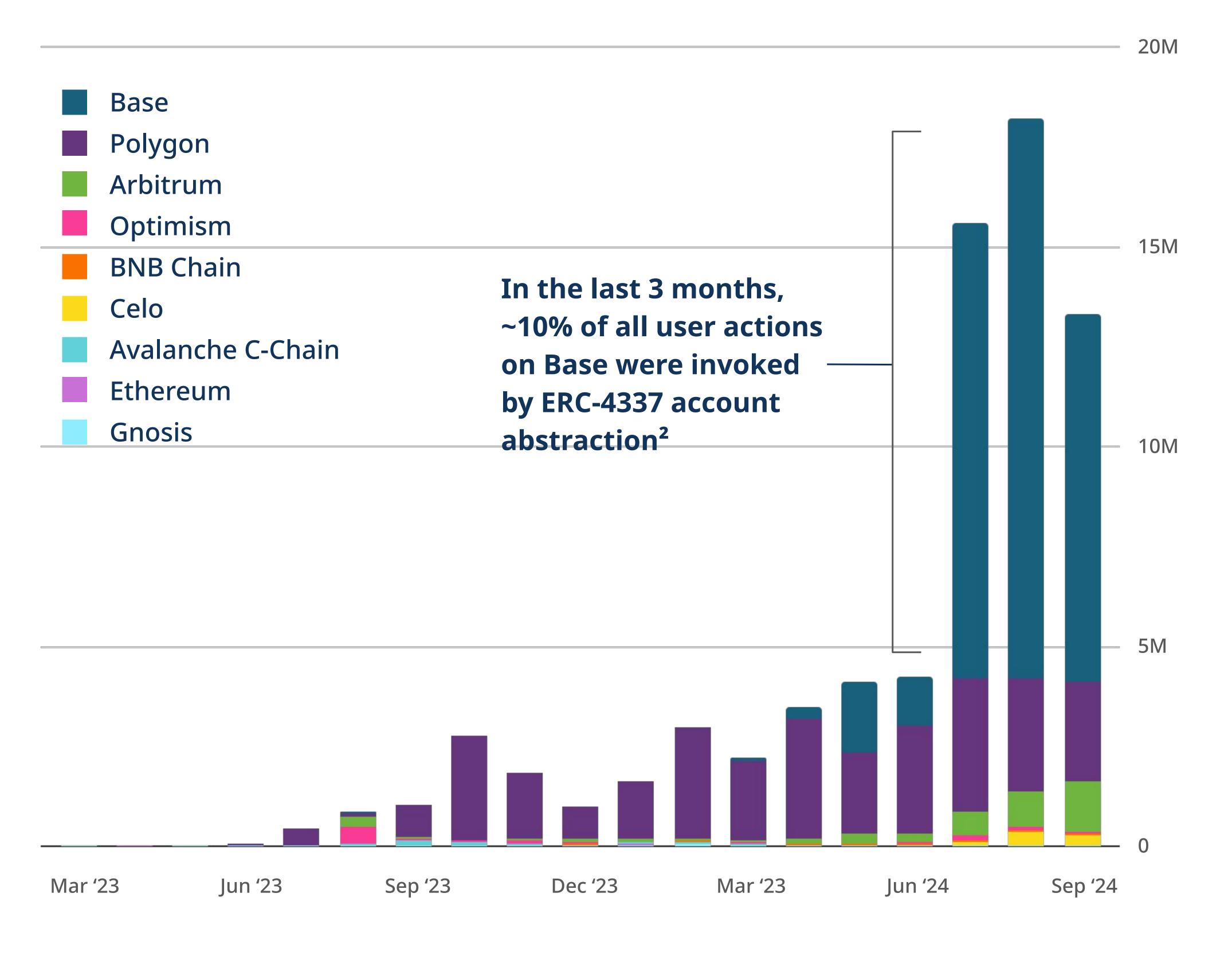


# Account abstraction is key to unlocking better user experiences with crypto

#### "Smart contract wallets" can provide...

- Social recovery options
- Sponsored transaction fees
- Efficient transaction bundling
- Spending limits
- Multi-factor authentication
- Wallet management system
- Better multichain UX
- Biometric authentication

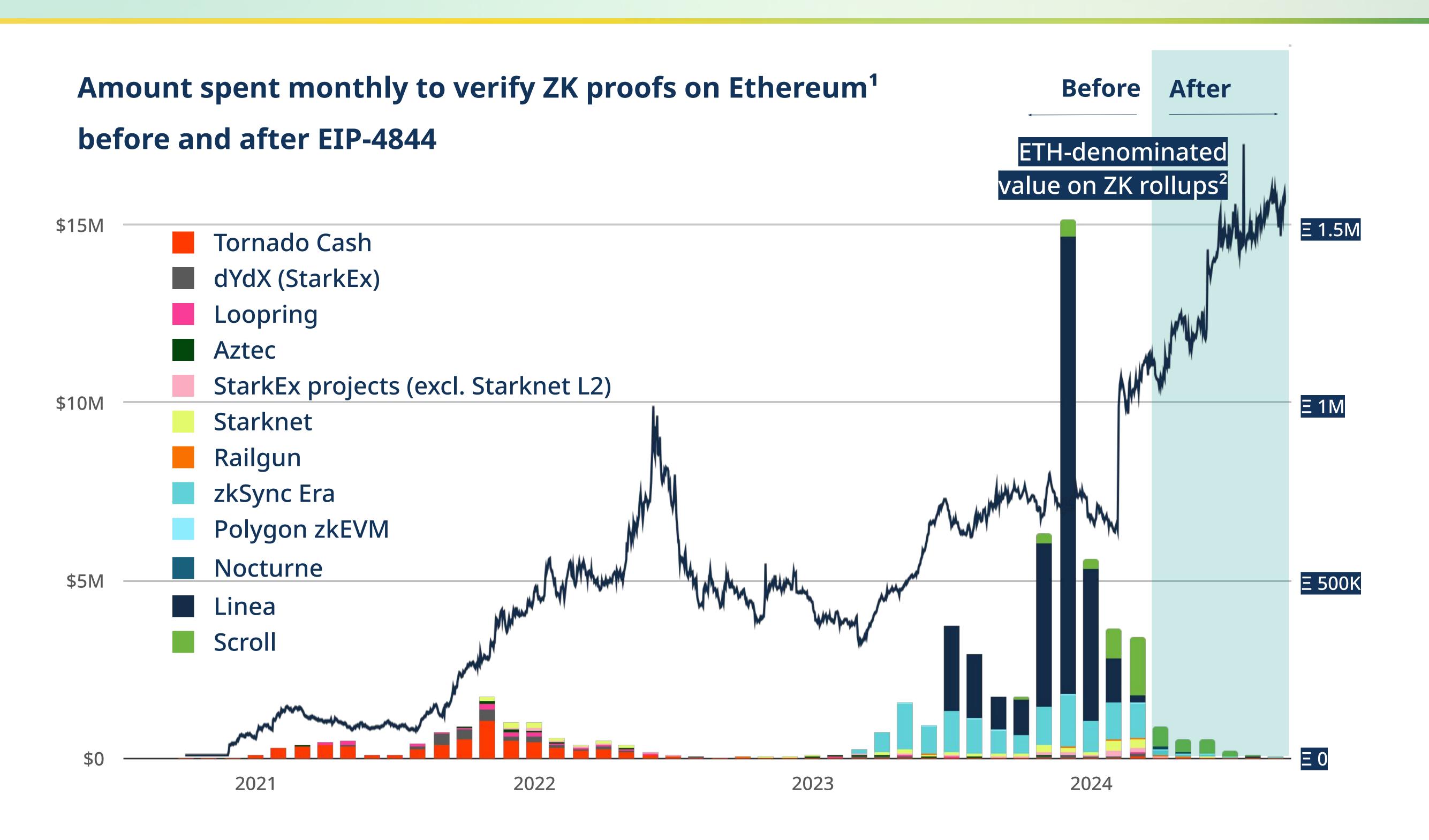
#### Monthly user operations related to account abstraction (ERC-4337)<sup>1</sup>



User operations represent actions that get bundled together and executed on behalf of users as part of account abstraction. ERC-4337 refers to the Ethereum standard for account abstraction, which enables new features for smart contracts.



## Zero knowledge proofs may be the endgame for blockchain privacy, scaling, and interoperability



Today, there are more than 250 crypto projects actively working to advance ZK technology<sup>3</sup>

Zero knowledge is used as a catch-all for cryptography that can succinctly prove that offloaded computations were performed correctly.





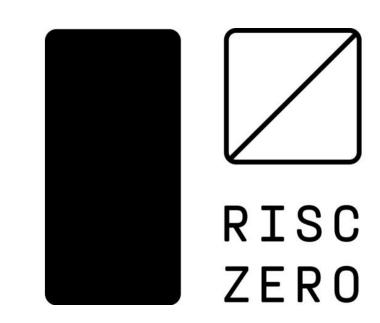


#### **Use cases**

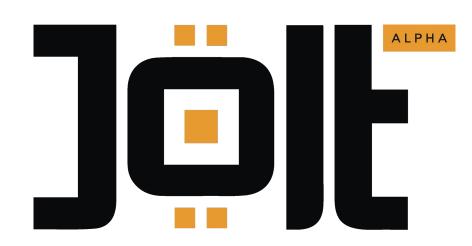
- Data-intensiveapplications
- Machine learning
- Onchain games

- Governance
- Bridging
- Options pricing
  (Black-Scholes)

- Orderbooks
- State proofs
- Fetch web2 data
   (zkTLS and zkEmail)



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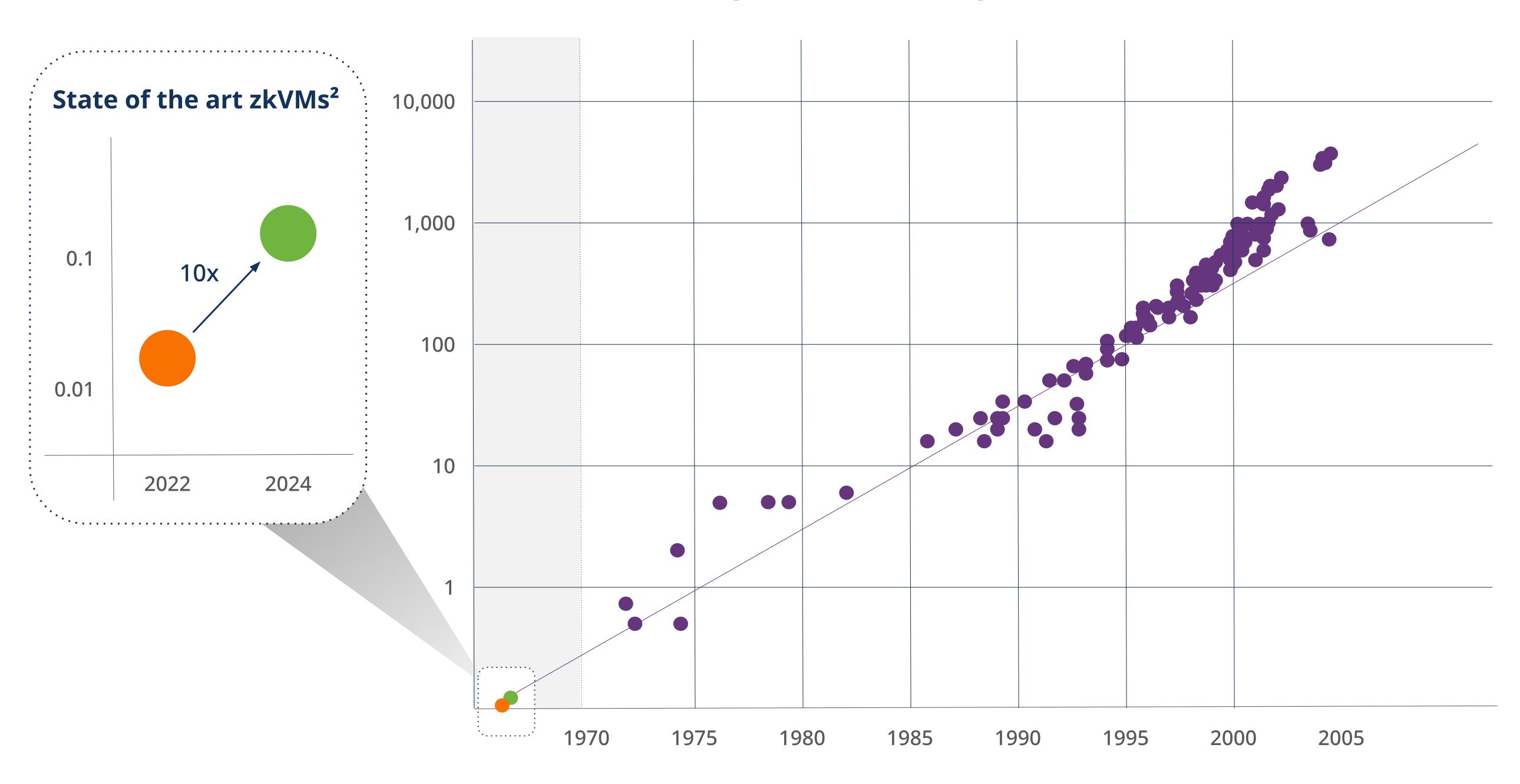


## ZK proofs can unlock a new programming paradigm for blockchains

"ZK coprocessors"
allow complex
computations to be
run offchain, giving
smart contract
developers access to
cheap, verifiable
compute.

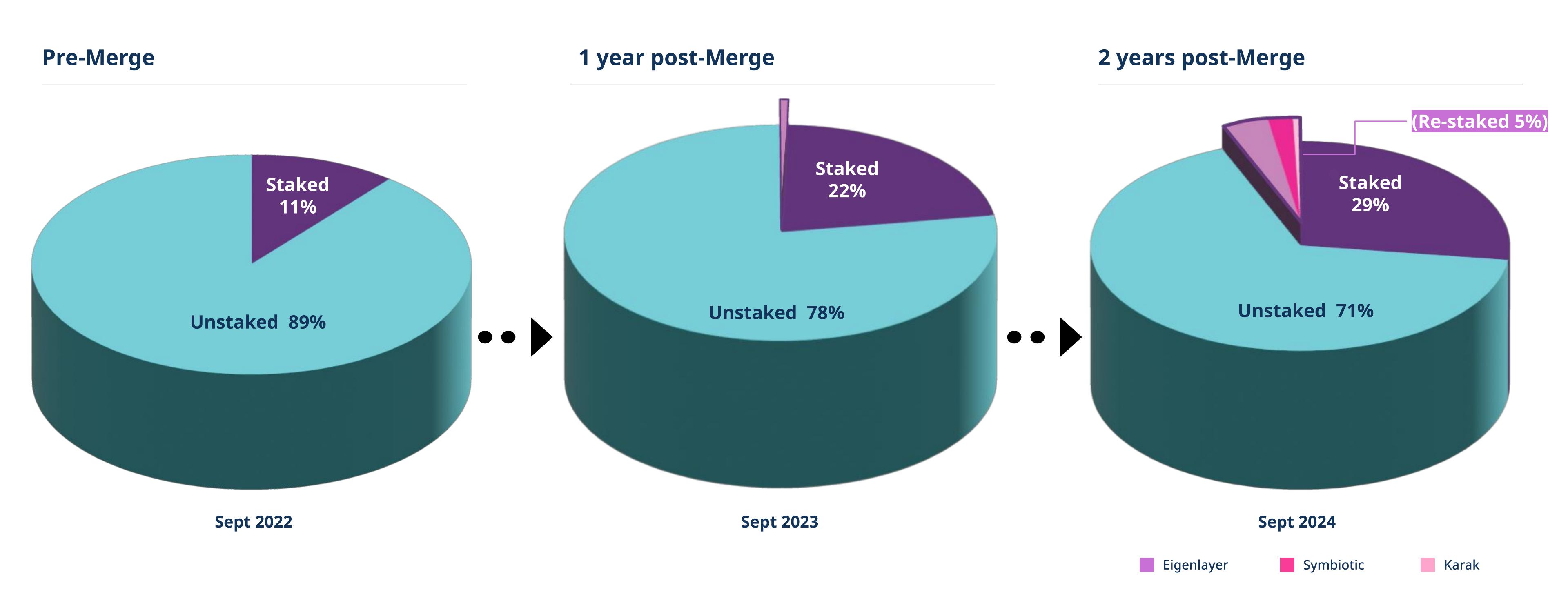
# Zero knowledge virtual machines (zkVMs) are improving, but there is still a long way to go

#### Intel CPU clock speed in MHz (log scale)<sup>1</sup>



zkVMs allow developers to write programs in high-level, programmer-friendly languages like Rust or Go without requiring any knowledge of the underlying math that proves their execution. But the improved usability typically adds significant performance overhead.

## The share of ETH being staked — and sometimes re-staked — is up and it's increasing the security of the network



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## Key applications are emerging

Stablecoins

Crypto x AI

NFTs

DeFi

Prediction Markets

DAOs

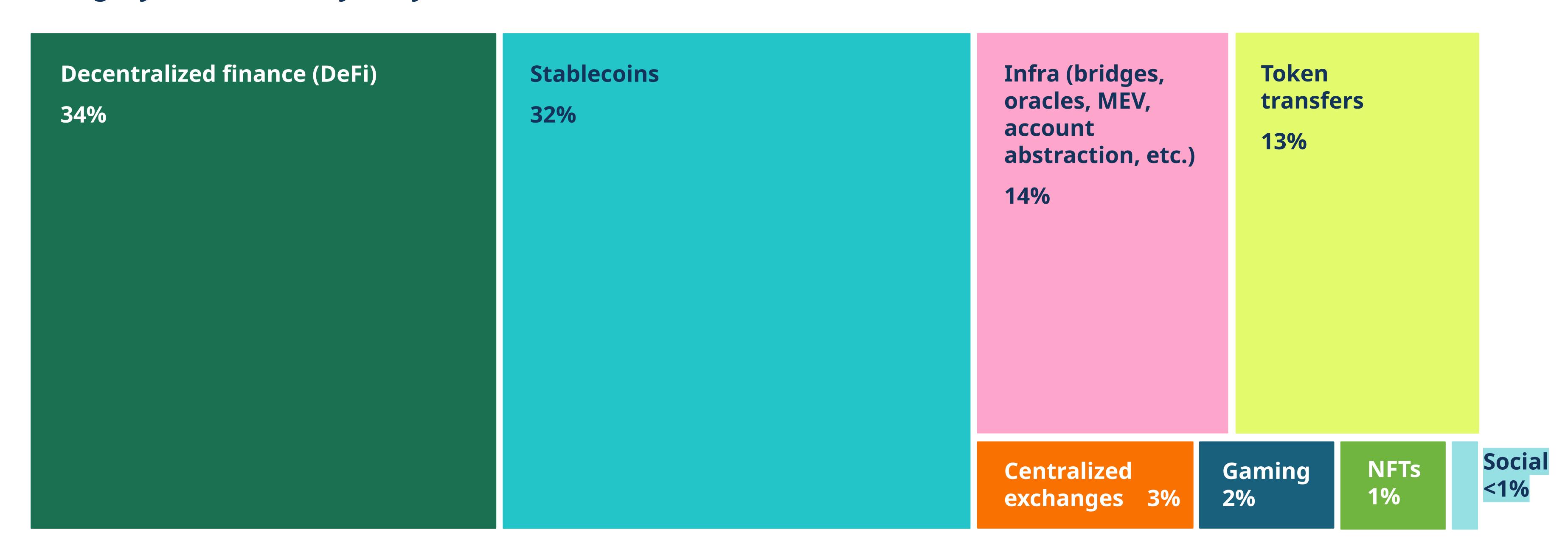
DePIN

Gaming

Social

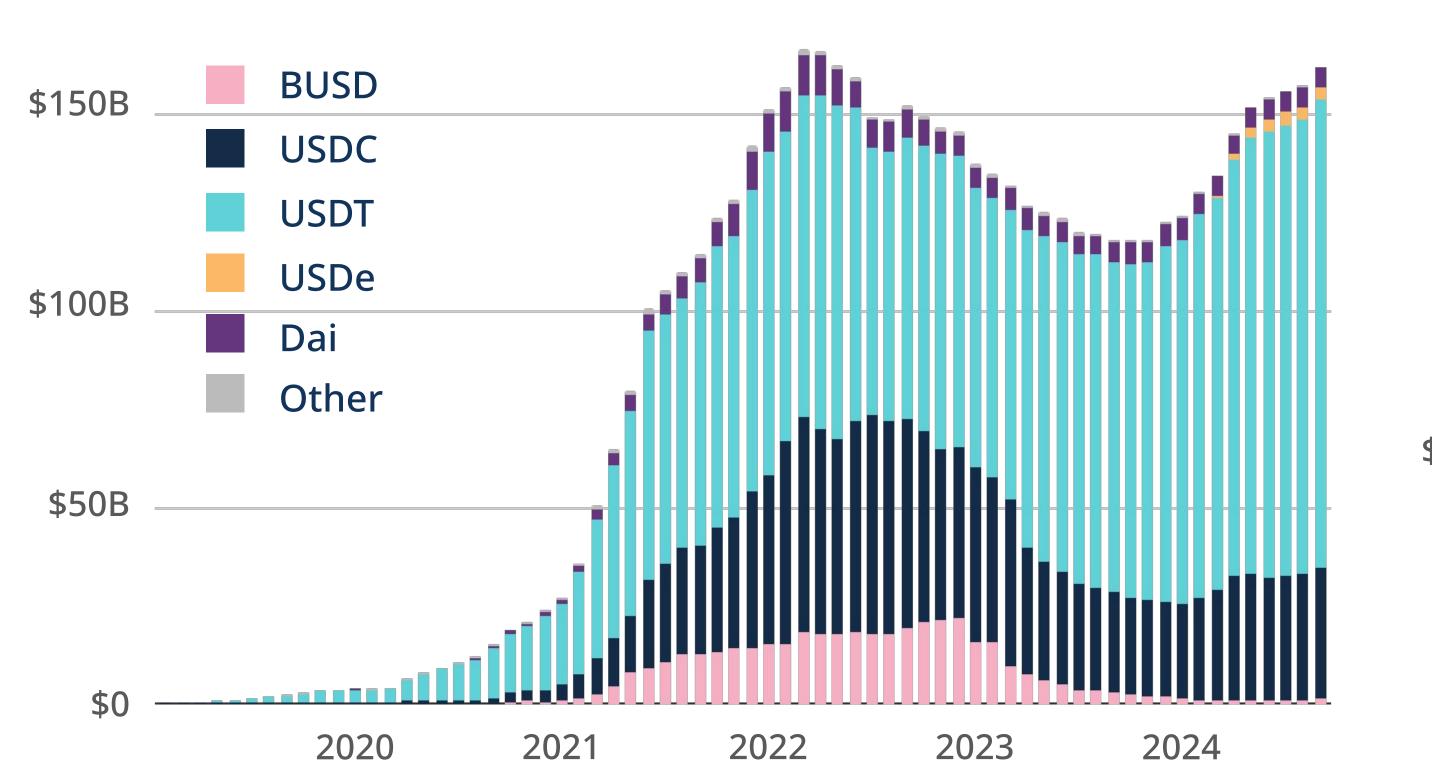
## DeFi and stablecoins dominate crypto usage today — emerging categories include gaming and social

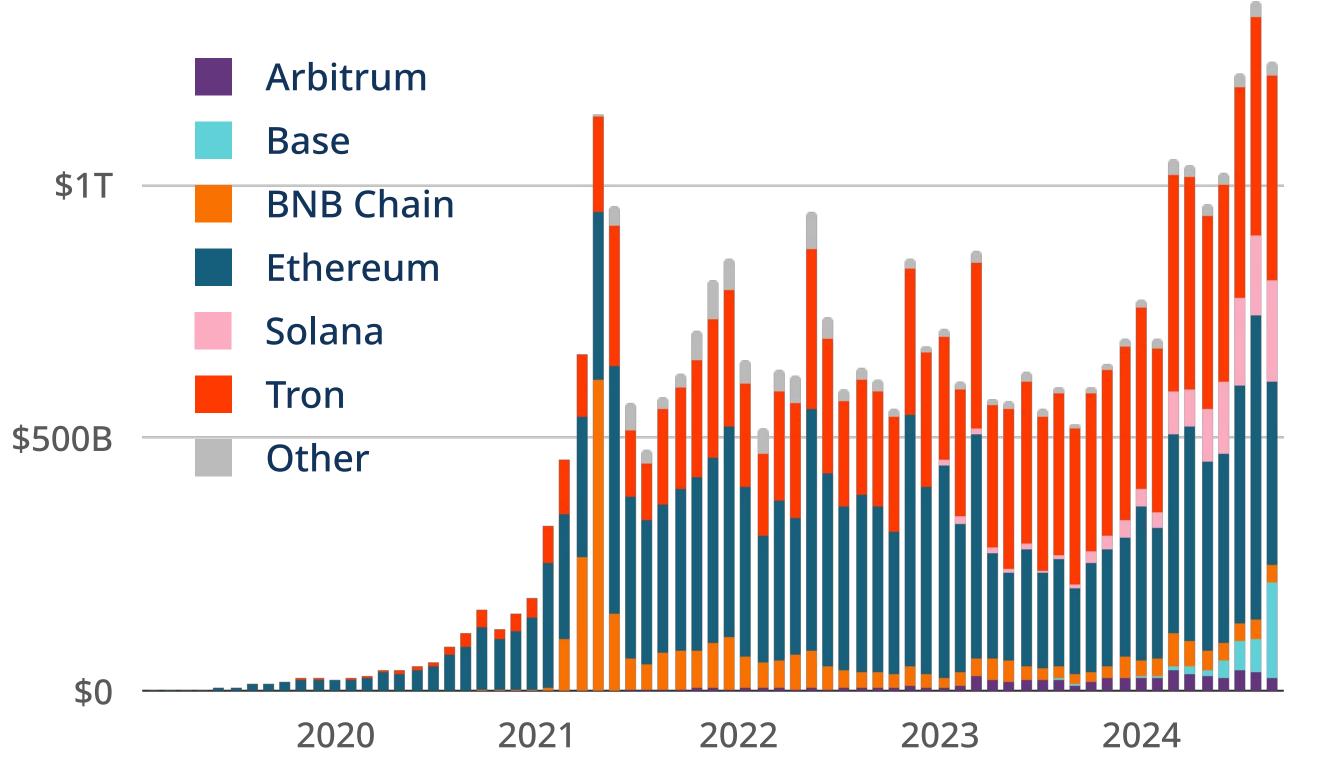
#### Category breakdown by daily active addresses (all blockchains)



#### Stablecoin supply by issuer<sup>1</sup>

#### Adjusted transfer volume<sup>1</sup> by blockchain





#### Stablecoins vs. Paypal, Visa, ACH, and Fedwire in Q2 2024<sup>2</sup>

|             | Transaction volume (\$) | # of transactions |
|-------------|-------------------------|-------------------|
| Stablecoins | \$8.5 tn                | 1.1 bn            |
| PayPal      | \$0.42 tn               | 6.6 bn            |
| Visa        | \$3.96 tn               | 59.3 bn           |
| ACH         | \$21.6 tn               | 8.3 bn            |
| Fedwire     | \$284.2 tn              | 0.05 bn           |

1/ Source: Artemis as of 9/30/2024 | Adjusted transfer volume is designed to strip out MEV activity and intra-centralized exchange transfers, providing a clearer picture of genuine user-driven stablecoin activity.

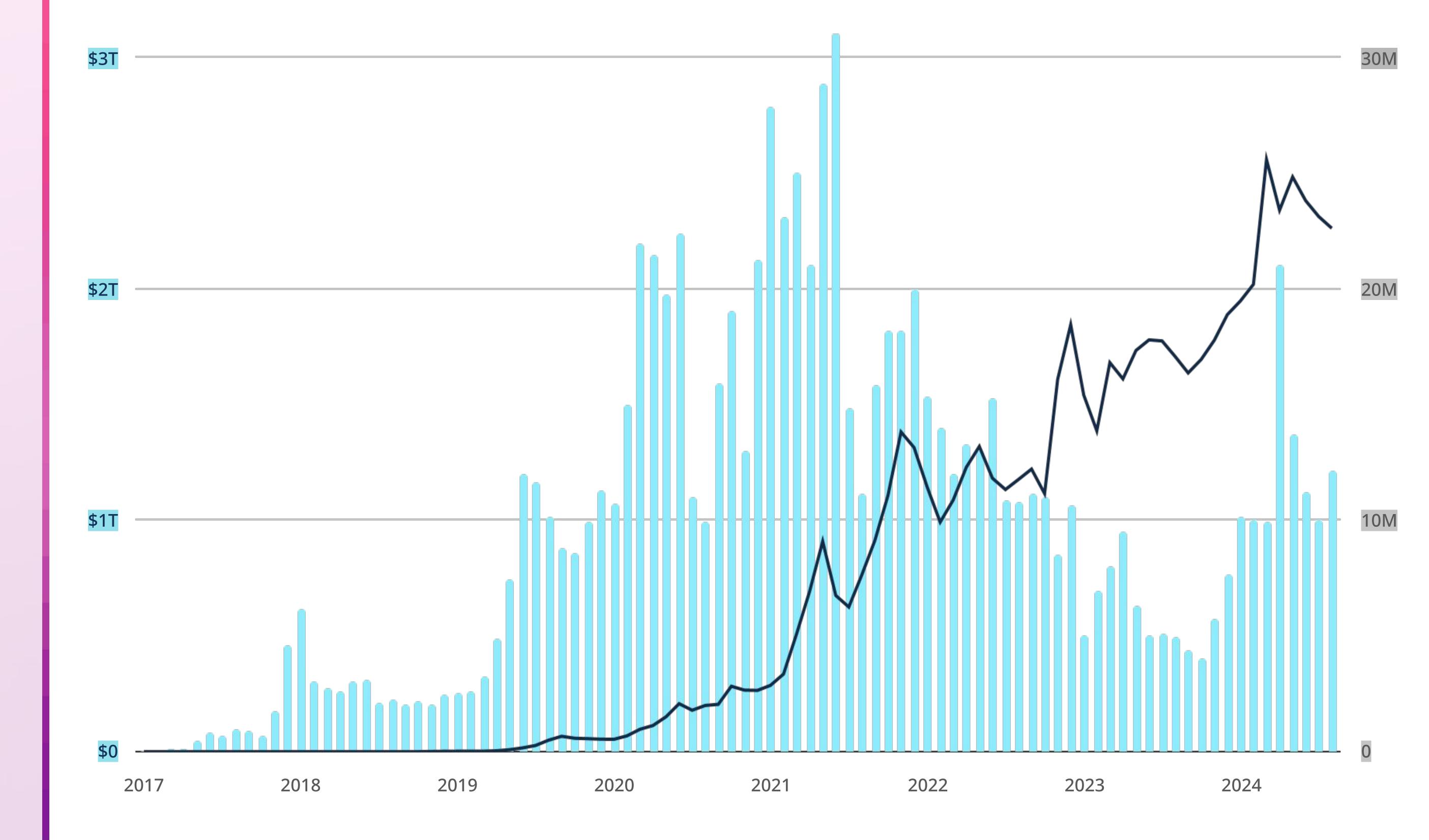




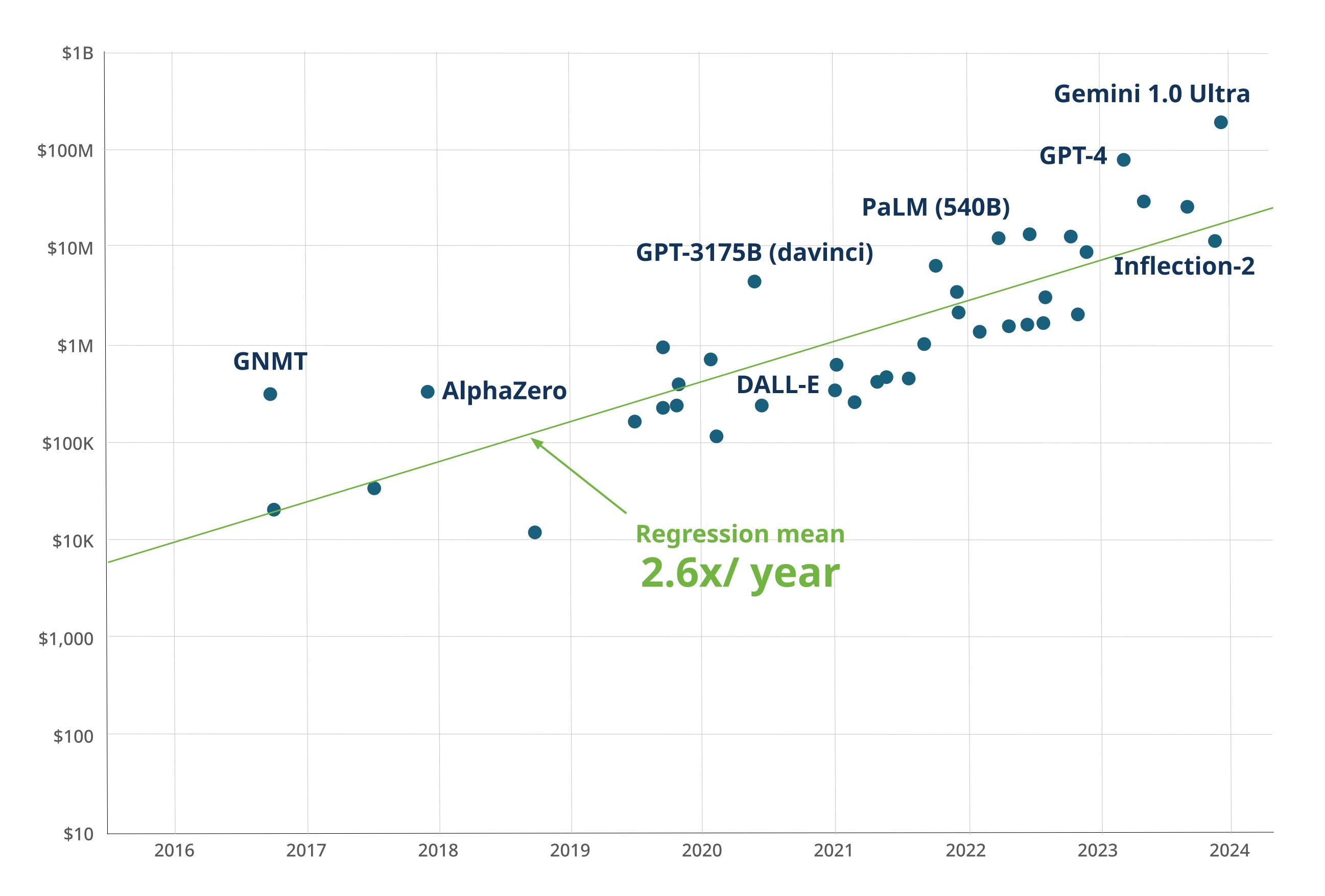
### Stablecoins have found market fit

#### Stablecoin activity has grown despite crypto market cyclicality, highlighting their adoption beyond trading

#### Spot crypto trading volume vs. stablecoin monthly sending addresses



#### Cloud compute cost, in 2023 USD, to train frontier AI models over time (log scale)



AI training costs are growing exponentially, a trend that we believe favors power centralization in the biggest tech companies

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### Blockchains can address some of the most pressing challenges facing the AI industry

15+ billion images
were created by AI
in a year — more
than 150 years of
photography

Training compute for frontier AI models has increased ~4x per year over the last 10 years

Trust in AI companies fell from 50% to 35% in the U.S. between 2019 and today

Frontier models are trained on trillions of tokens (data units) from mostly unpaid contributors

### Authenticity

blockchains can help verify the authenticity of content

### Democratization

blockchains can help broaden access to compute

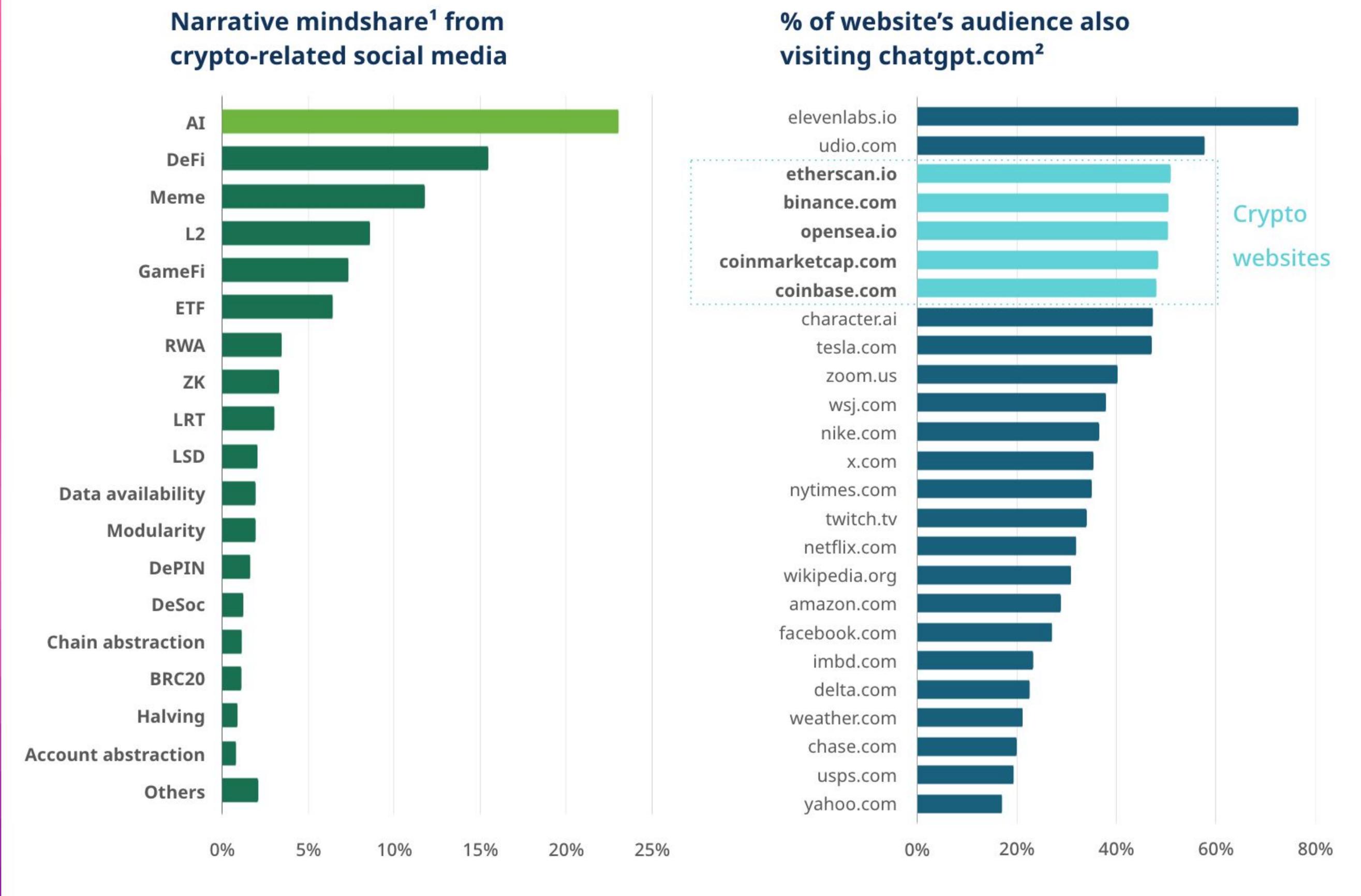
### **Transparency**

blockchains can help create open, user-owned services

### Ownership

blockchains can help compensate IP and data contributors

### There is heavy overlap between crypto and AI users

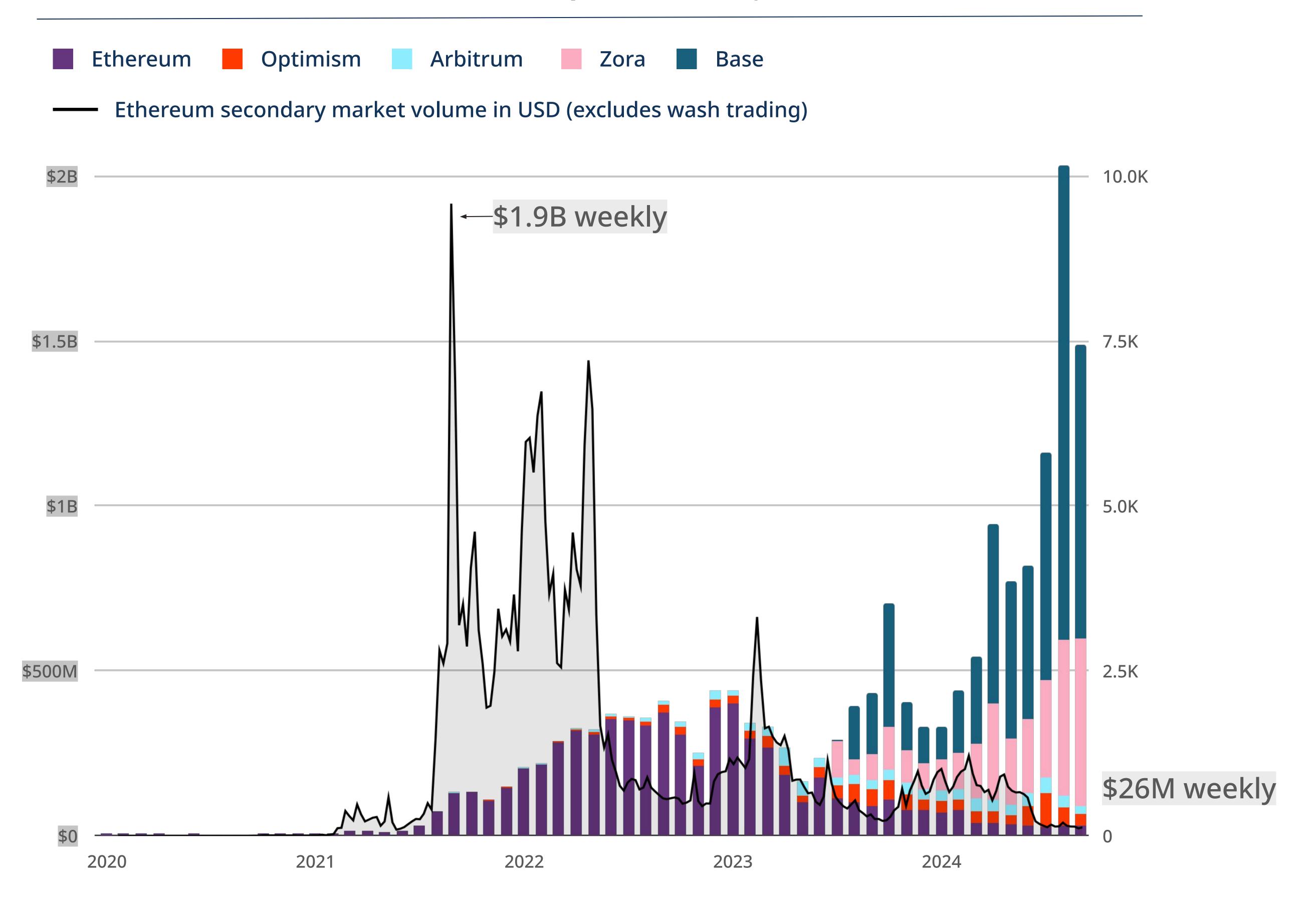


1/ Narrative mindshare measures dominance relative to the overall market by dividing social mentions of each narrative by the number of mentions from people who are considered part of Crypto Twitter (based on Kaito's proprietary search engine and social graph data). RWA is real world assets. LRT is liquid restaking tokens. LSD is liquid staking derivatives. BRC-20 is a Bitcoin token standard | Source: Kaito (via @sandraaleow)

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2/ Source: SimilarWeb as of Aug 2024.

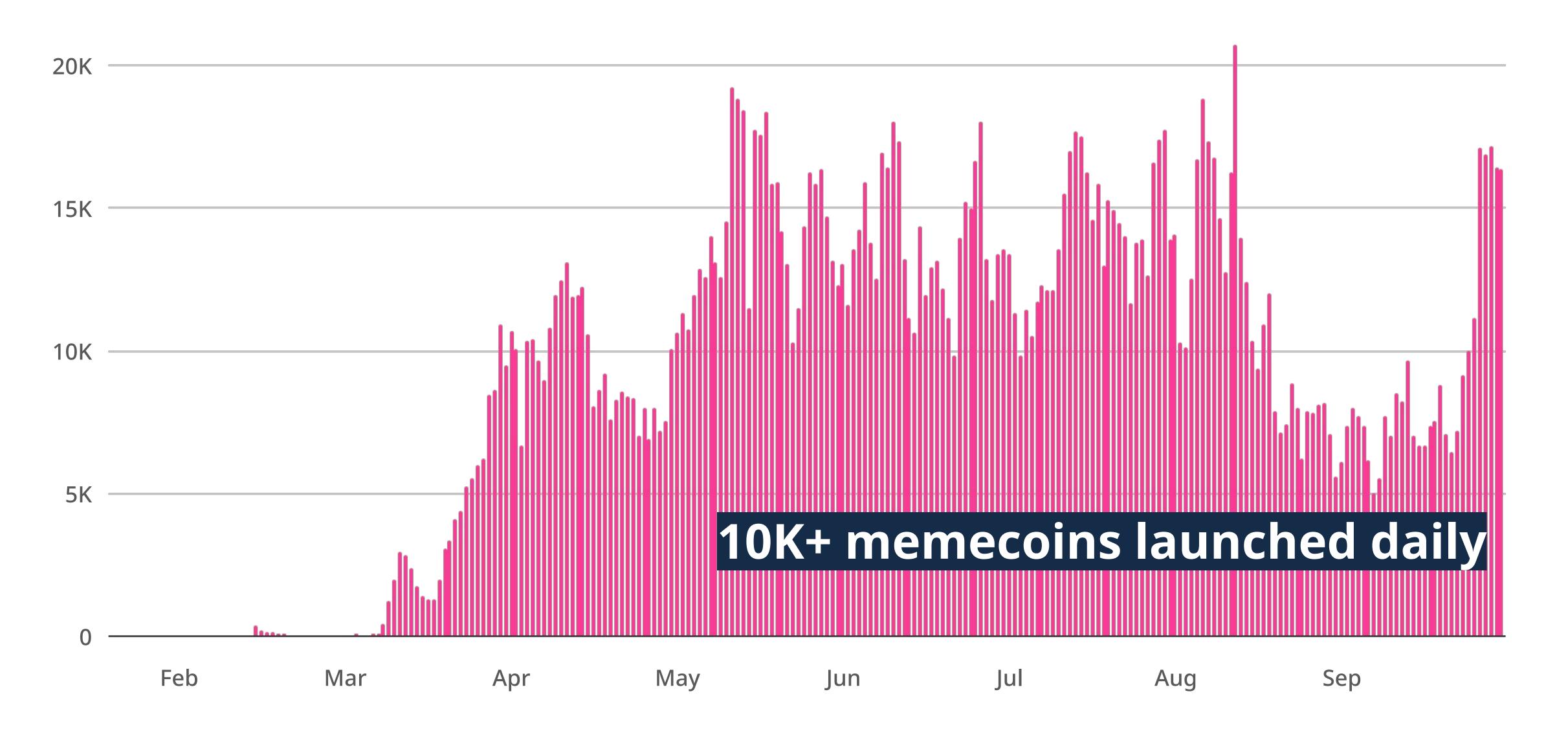
### Number of NFT collections with 50+ unique minters, by blockchain and month



NFT activity appears to have shifted from highvolume secondary markets to low-cost social collecting experiences

### Today's regulatory environment has enabled speculative memecoins to proliferate

### Number of Solana memecoins created daily in 2024

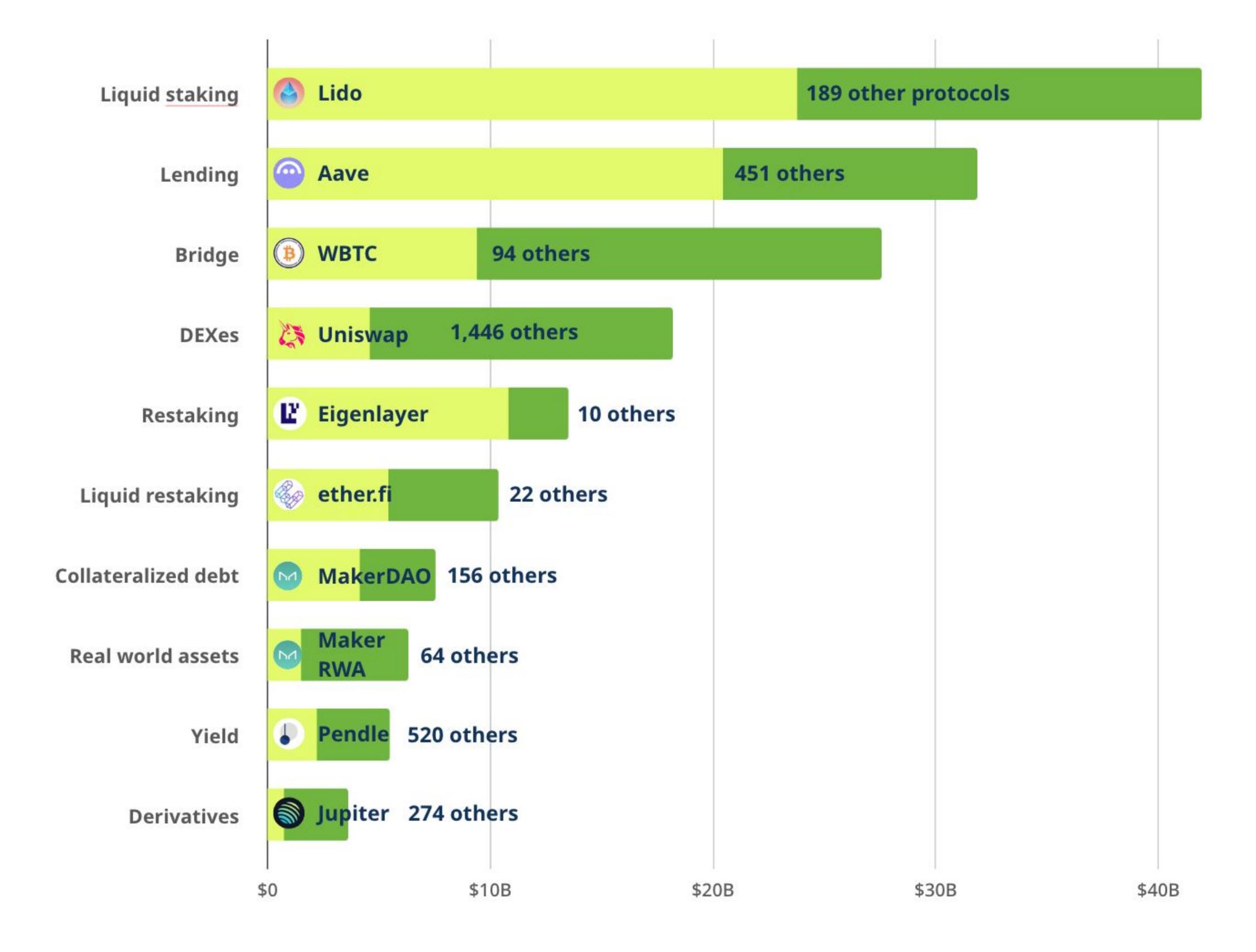


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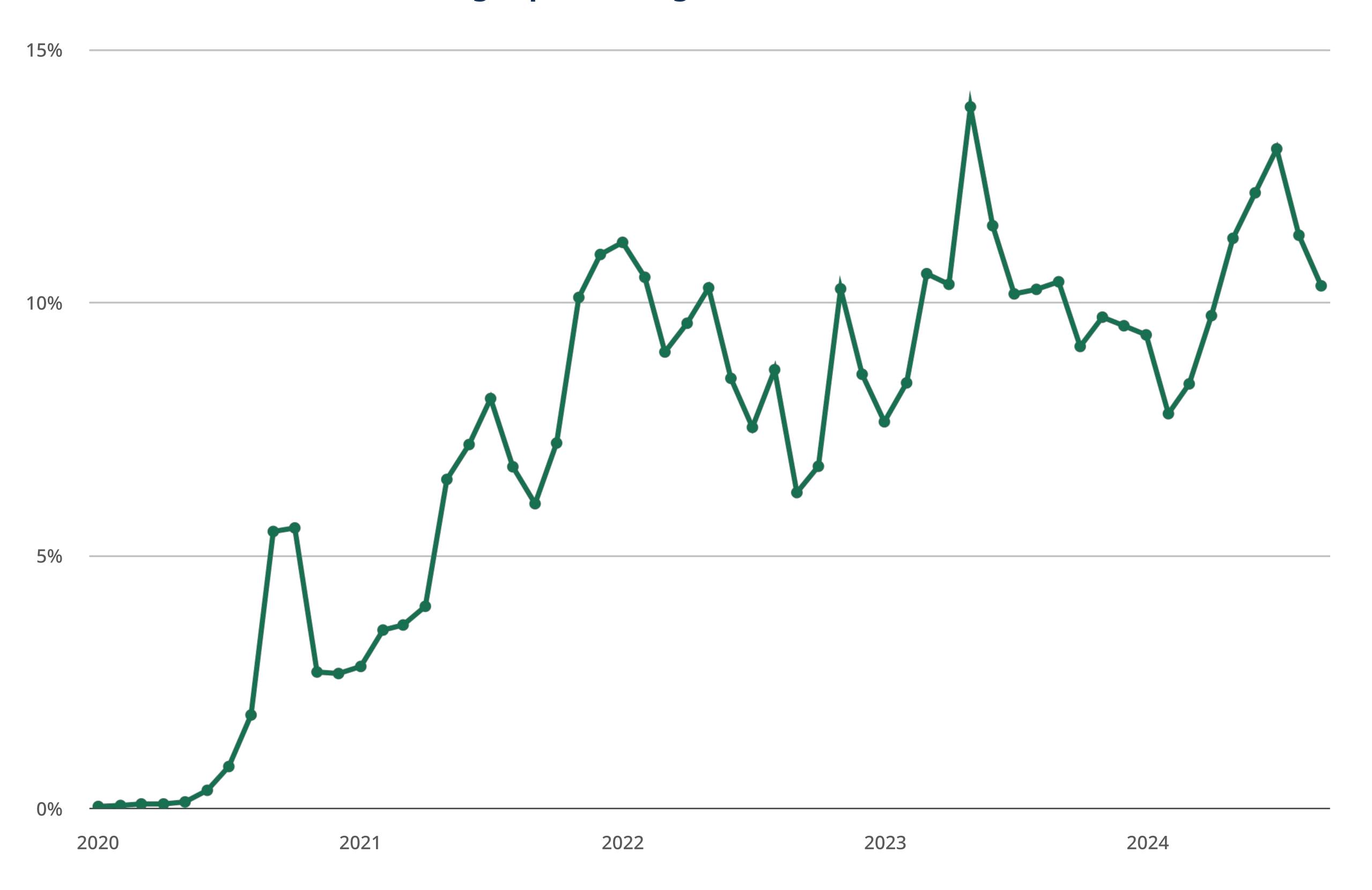
| TOKEN                                         | PRICE (6)               |
|-----------------------------------------------|-------------------------|
| #1 🚳 WP <b>\$WIF</b> / SOL <b>W</b> dogwifhat | \$2.24                  |
| #2 S WP POPCAT/SOL & Popcat                   | \$1.21                  |
| #3 S WP ORCA/SOL Orca                         | \$2.27                  |
| #4 <b>MOODENG</b> / SOL <b>M</b> oo Deng      | \$0.1387                |
| #5 CPMM VINU/SOL 🕏 Vita Inu                   | \$0.0 <sub>7</sub> 5885 |
| #6 SASHA / SOL BITCOIN CAT                    | \$0.02051               |
| #7 CEMM SASHA / SOL BITCOIN CAT               | \$0.02035               |
| #8 <b>@ wDoG</b> / SOL <b>W</b> wrapped dog   | \$0.01101               |
| #9 <b>© coby</b> / SOL <b>©</b> coby          | \$0.005624              |
| #18 SOBULL / SOL SOBULL                       | \$0.004550              |
| #11 <b>O Pochita</b> / SOL <b>To Pochita</b>  | \$0.004193              |
| #12 POPE SOL POPE                             | \$0.004102              |
| #13 <b>② Zazu</b> / SOL <b>③</b> Zazu         | \$0.002385              |
| #14 📵 SB / SOL 🚳 Shark Bee                    | \$0.002185              |

# Thousands of Defi protocols now control billions of dollars — and leaders are emerging

### Top DeFi categories by total value locked



### Share of decentralized exchange spot trading volume (%)

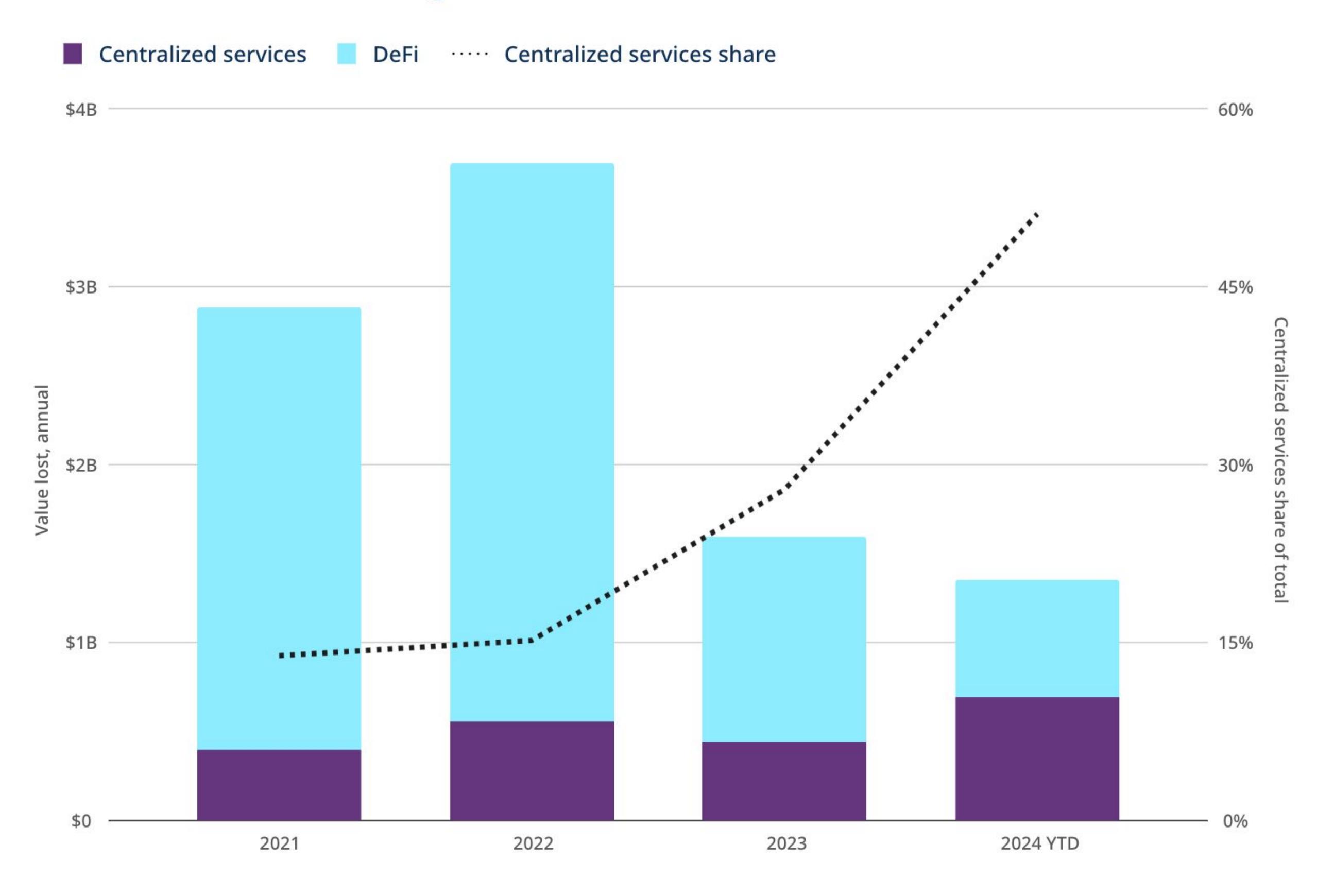


Crypto trading is increasingly happening on decentralized exchanges since DeFi summer 2020

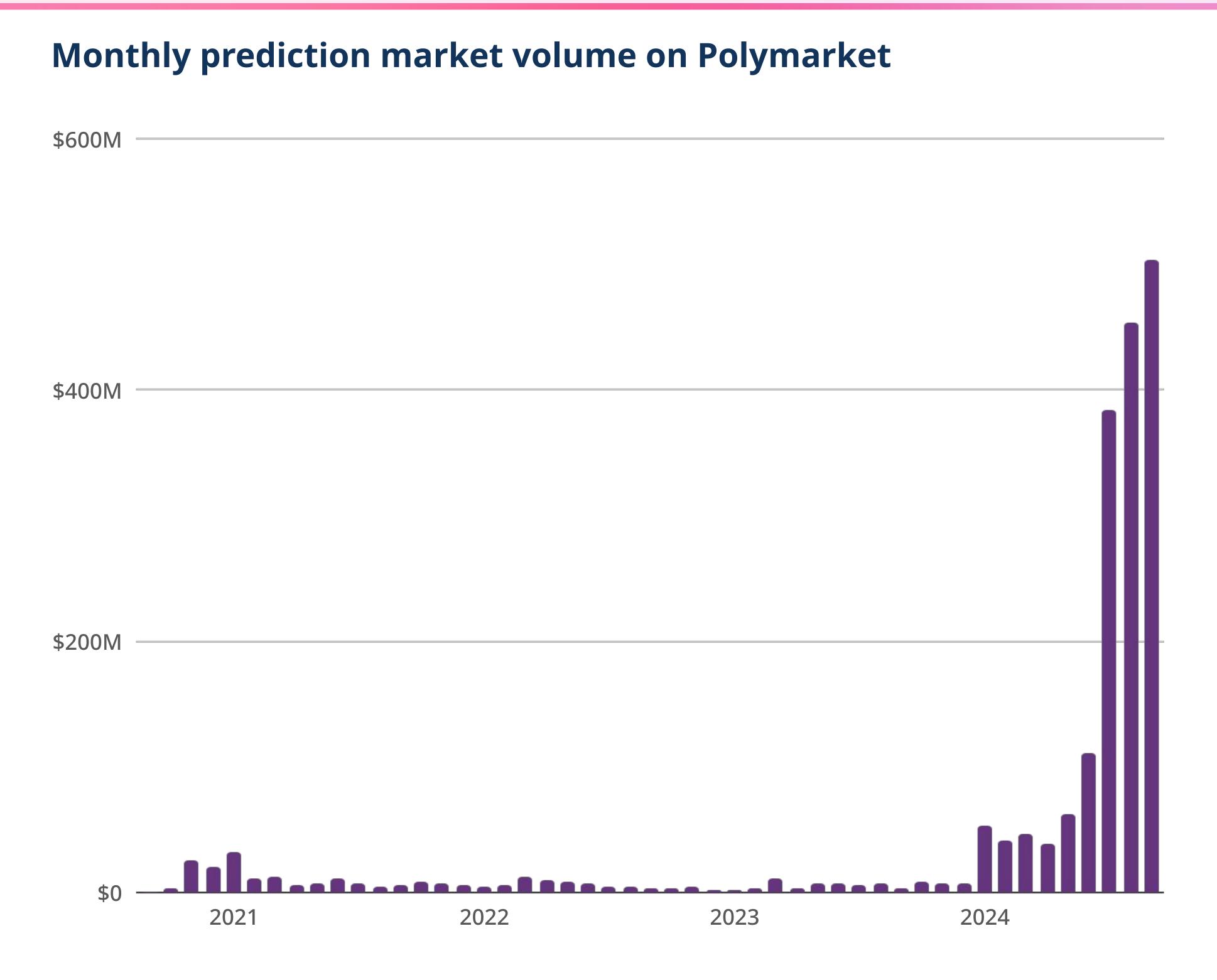
### Increased attention to DeFi

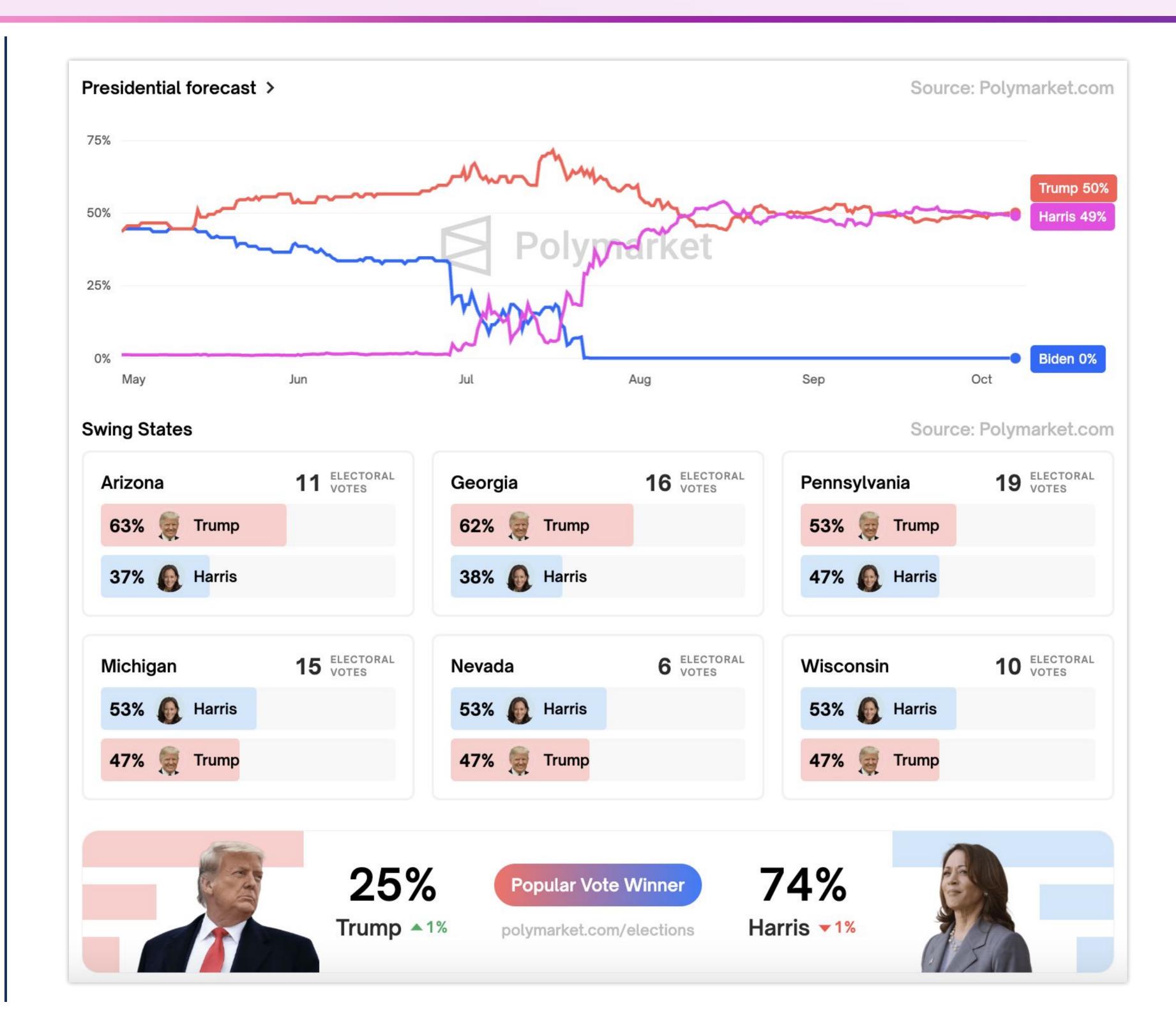
cybersecurity
measures may
have driven
hackers back
to more
centralized
services

### Value lost from hacking

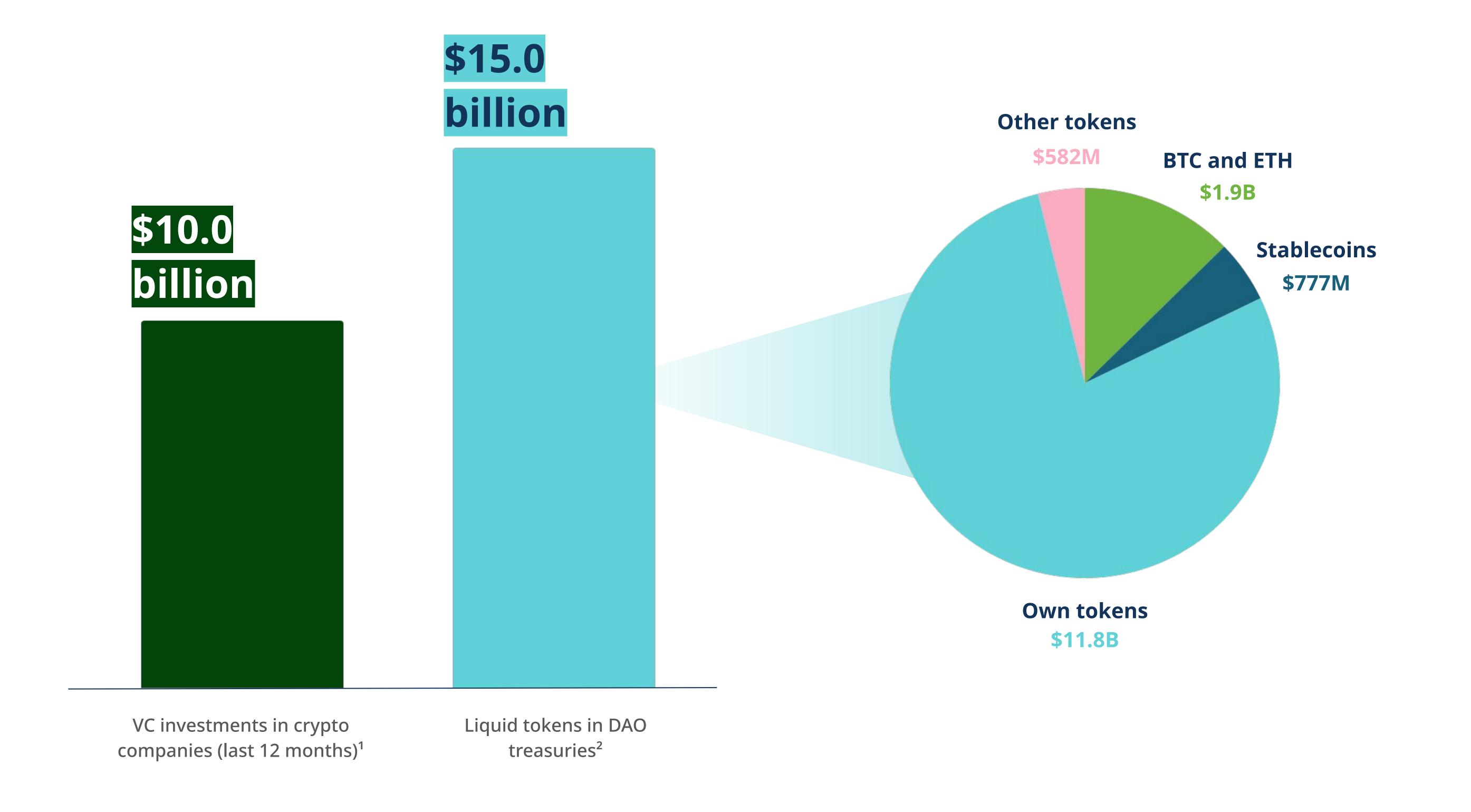


### Interest in crypto-based prediction markets is skyrocketing, especially around elections





### VC investments in crypto companies vs. DAO treasury value



DAO treasuries have billions of dollars of liquid tokens that can fuel network improvements

### Decentralized physical infrastructure networks (DePIN) are underpinning nascent services in the physical world

### Wireless network



374,743 active hotspots



Vehicle & mobility data-

### DIMO

113,499 cars connected



### -Mapping

### Shivemapper

348 million kilometers mapped



### **Energy**



1,100+ users on testnet



### -Weather-



13,499 weather stations



### Food delivery



**224** restaurants in Northern Colorado



### Games — long a source of innovation in software — are pushing blockchain scaling to its limits

### Ethereum and its rollups sorted by mega gas used per second (Sept 30, 2024)



TOTALS

TPS Mgas/s KB/s
348.70 62.80 172.93
(19.81x) (51.48x) (30.23x)

| Network            | Block     | TPS   | Mgas/s | KB/s  | Stack          | DA       | Settlement |
|--------------------|-----------|-------|--------|-------|----------------|----------|------------|
| ProofOfPlay - Apex | 50697139  | 16.5  | 16.45  | 10.96 | arbitrum-nitro | anytrust | arbitrum   |
| Base               | 20464204  | 61.0  | 9.89   | 39.32 | op-stack       | blobs    | ethereum   |
| ProofOfPlay - Boss | 9803692   | 9.7   | 7.04   | 6.41  | arbitrum-nitro | anytrust | arbitrum   |
| Xai                | 43321074  | 138.3 | 6.78   | 27.82 | arbitrum-nitro | anytrust | arbitrum   |
| WINR Chain         | 11813418  | 8.4   | 3.54   | 6.99  | arbitrum-nitro | anytrust | arbitrum   |
| Gravity            | 8325837   | 44.5  | 3.29   | 18.65 | arbitrum-nitro | anytrust | ethereum   |
| ArbitrumOne        | 258987100 | 15.3  | 3.04   | 11.67 | arbitrum-nitro | blobs    | ethereum   |
| OP Mainnet         | 126059489 | 9.5   | 2.78   | 8.96  | op-stack       | blobs    | ethereum   |
| Blast              | 9453969   | 6.2   | 2.72   | 7.73  | op-stack       | blobs    | ethereum   |
| Mode               | 13775085  | 1.0   | 1.30   | 0.80  | op-stack       | blobs    | ethereum   |
| Ethereum           | 20865003  | 17.6  | 1.22   | 5.72  | ethereum       | ethereum | ethereum   |
| Ham                | 11127023  | 0.8   | 1.04   | 7.33  | op-stack       | celestia | base       |
| Scroll             | 9751915   | 4.3   | 0.97   | 2.44  | scroll         | blobs    | ethereum   |
| Linea              | 10146944  | 12.7  | 0.95   | 4.96  | linea          | blobs    | ethereum   |
| Mantle             | 69793722  | 4.9   | 0.91   | 2.39  | op-stack       | mantle   | ethereum   |
| Zora               | 20511958  | 0.7   | 0.60   | 0.86  | op-stack       | blobs    | ethereum   |

Some of the above are a16z investments. For a full list see <u>a16z.com/investment-list</u>. This content should not be considered investment advice.

### It's early days for decentralized social networks, but vibrant developer ecosystems are emerging around protocols like Farcaster

### Farcaster daily active users (7d trailing avg) in 2024





### Farcaster ecosystem projects

### Clients - general

- <u>Warpcast</u>
- <u>Supercast</u>
- <u>Fiids</u>
- nounspace
- far.quest
- Litecast
- <u>U3</u>
- herocast

<u>Ketchup</u>

<u>Searchcaster</u>

<u>Alertcaster</u>

<u>Pincaster</u>

<u>Sealcaster</u>

**Sonata** 

**SayMore** 

<u>Absorb</u>

Kiwi News

**Findcaster** 

Web3.bio

**Opencast** 

<u>tofui</u>

<u>Ponder</u>

33bits

<u>Magi</u>

Casterscan

**Bountycaster** 

<u>CasterBites</u>

**Terminal** 

<u>Alphacaster</u>

<u>Launchcaster</u>

**Buoy** 

Crew

Clients - specialized

### Tools

- <u>CastStorage</u>
- <u>Sharecaster</u>
- Searchcaster
- <u>Fardrop</u>
- <u>Hatecast</u>
- Farcaster.vote
- Composecast.xyz

- @remindme
- <u>@launch</u>

Bots

- @perl
- @mintit
- <u>@alert</u>
- @survey @paragraph
- @bountybot
- <u>@translate</u>

@ballot

- @events **Eventcaster** 
  - <u>@indexer</u>

### Community

- <u>Citycaster</u>
- Yash's Directory
- <u>Purple</u>
- <u>FarCon</u>

### Services

- <u>Neynar</u>
- Airstack API Studio
- Airstack Explorer
- <u>dTech</u>

### Analytics & data

- <u>Intelligent</u>
- **Farcaster User Stats**
- CastSense
- <u>Trendcaster</u>
- **Farcaster Network**
- Casterscan
- Goerli Subgraph
- <u>SQLCaster</u>
- Farcaster Insights
- Farcaster Hot 100
- Neynar Frame analytics

### Repos

- standard-crypto/farcaster-js
- a16z/farcaster-py
- TheLDB/farcaster-rs
- ertan/go-farcaster
- wevm/frog
- framesis/frames.is
- gskril/farcaster-indexer
- BigWhaleLabs/botcaster zachterrell57/farcaster-auth
- gskril/farcaster-search
- YashKarthik/frencaster-v2
- whatrocks/farcaster-feed
- noctisatrae/farsign
- davidfurlong/farcaster-auth-tokens
- neynarxyz/farcaster-channels
- Karma3Labs/ts-eigencaster
- fmhall/fc-bot-template
- ponder-surveys/farcaster-survey-bot
- mod-protocol/mod
- pugson/react-farcaster-embed
- Farcaster Solidity
- leo5imon/farcaster-scraper

- Frames Intro and Resources
- Farcaster Frame Tech Spec
- **Farcaster Frame Text Input**
- Farcaster Frame Resources
- Airstack Onchain Kit For Farcaster Frames
- horsefacts.eth's Base mint with Warps
- Neynar hosted frames

### Frames

- ncitron.eth's oframl
- topframes.xyz

Some of the above are a16z investments. For a full list see a16z.com/investment-list. This content should not be considered investment advice.

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## What we know about crypto's builders

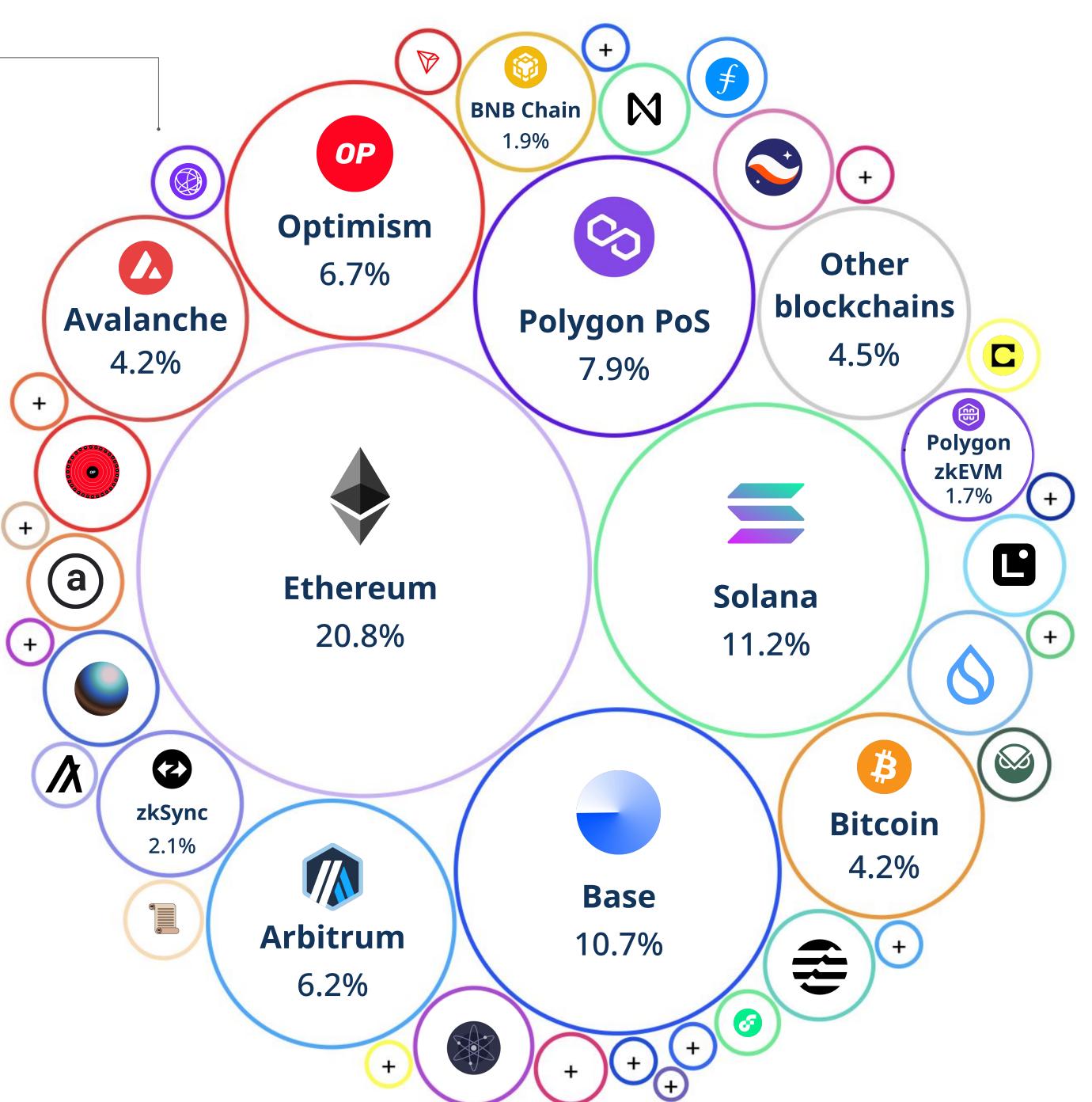
Introducing: <u>Builder Energy Dashboard</u>

### A diversity of blockchains are attracting builders, including Ethereum and its adjacent L2 networks, plus Solana, Bitcoin, and others

### **Builder interest by blockchain**

The blockchains that founders say they are — or are interested in — building on

### **Projects in 2024**



Layer two (L2) networks are designed to increase capacity and lower onchain transaction costs. This may exclude some onboarding and exit costs.

Some of the above are a16z investments. For a full list see <u>a16z.com/investment-list</u>. This content should not be considered investment advice.

### Top 5 by change in total share

| 2023  |          | 2024  |      |
|-------|----------|-------|------|
| 5.1%  | Solana   | 11.2% | +6.1 |
| 7.8%  | Base     | 10.7% | +2.9 |
| 2.6%  | Bitcoin  | 4.2%  | +1.6 |
| 19.7% | Ethereum | 20.8% | +1.1 |
| 0.4%  | Zora     | 1.3%  | +0.9 |

Source: a16z crypto's <u>Builder Energy Dashboard</u> is based on data from thousands of crypto projects we've tracked over the past two years, including investment team research, our CSX startup accelerator program, and other industry-wide tracking through Sept 2024. Please note this does not include all builders or founders and is meant to be for informational purposes only.

### DeFi, blockchain infrastructure, and DePIN are some of the hottest categories in 2024 for builder activity

### **Builder activity by category**

Our breakdown of the areas in which projects are building

### Projects in 2024 vs 2023

Decentralized finance (DeFi): 24.8%

+3.5

Blockchain infrastructure: 19.1%

+2.7

Picks & shovels: 11.3%

-2.2

**Social: 10.3%** 

+0.2

Wallets & identity: 8.2%

-2.7

Gaming: 6.3%

+0.4

**Media: 5.1%** 

-0.5

-4.3

Physical

(DePIN):

infra

6.5%

+2.5

NFT infra: 4.4%

3.6% +0.3

Science (DeSci): 1.2% +0.2

Other:

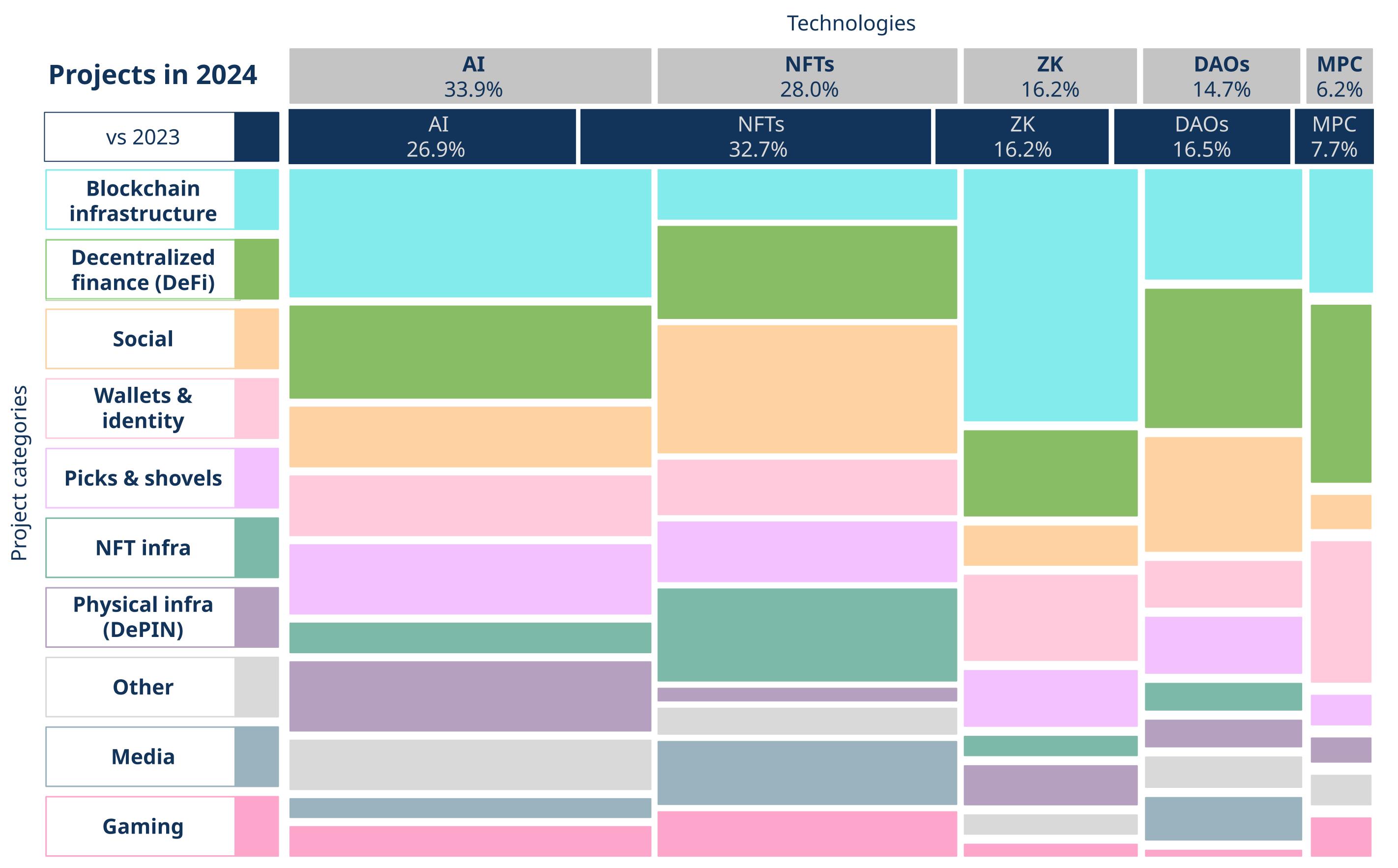
### Top subcategories in 2024

| DeFi                      | Real world assets |
|---------------------------|-------------------|
| DeFi                      | Payments          |
| Blockchain infrastructure | L2 blockchains    |
| DeFi                      | Exchange          |
| Social                    | Social networks   |

Source: a16z crypto's <u>Builder Energy Dashboard</u> is based on data from thousands of crypto projects we've tracked over the past two years, including investment team research, our CSX startup accelerator program, and other industry-wide tracking through Sept 2024. Please note this does not include all builders or founders and is meant to be for informational purposes only.

### Builder activity by applied technology

The technologies that builders are using across categories (boxes show % breakdown by intersection of project category and technology)



**Builders show** increasing interest in AI in 2024, commonly used by infra, DeFi, DePIN, and picks & shovels projects



# Crypto is international, with builders spread across the U.S., Asia, and Europe

### Top 5 by change in total share

+5.1

13.4%



NY

8.3%

Source: a16z crypto's <u>Builder Energy Dashboard</u> is based on data from thousands of crypto projects we've

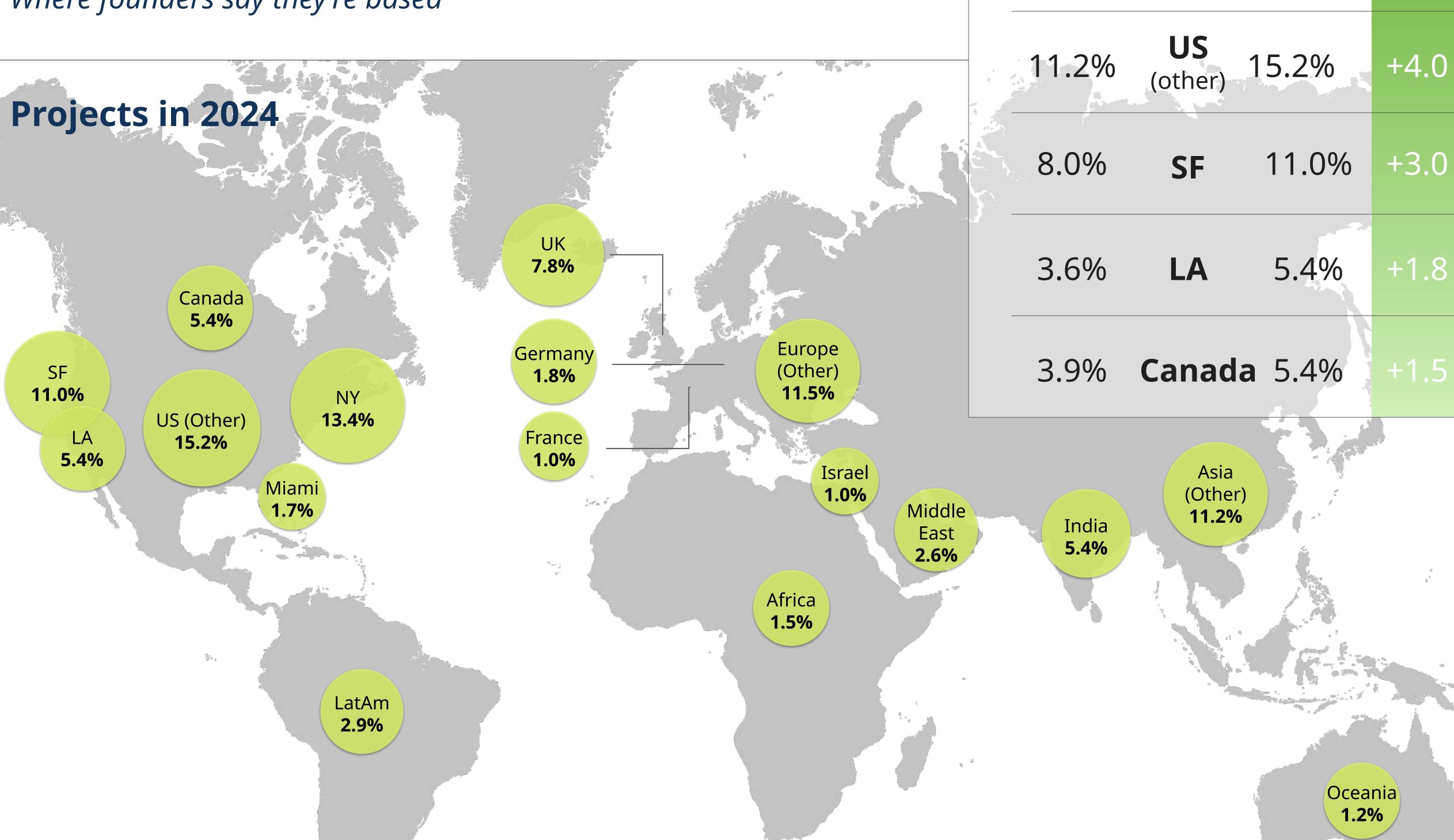
tracked over the past two years, including investment team research, our CSX startup accelerator

builders or founders and is meant to be for informational purposes only.

program, and other industry-wide tracking through Sept 2024. Please note this does not include all

### Builders by geography

Where founders say they're based

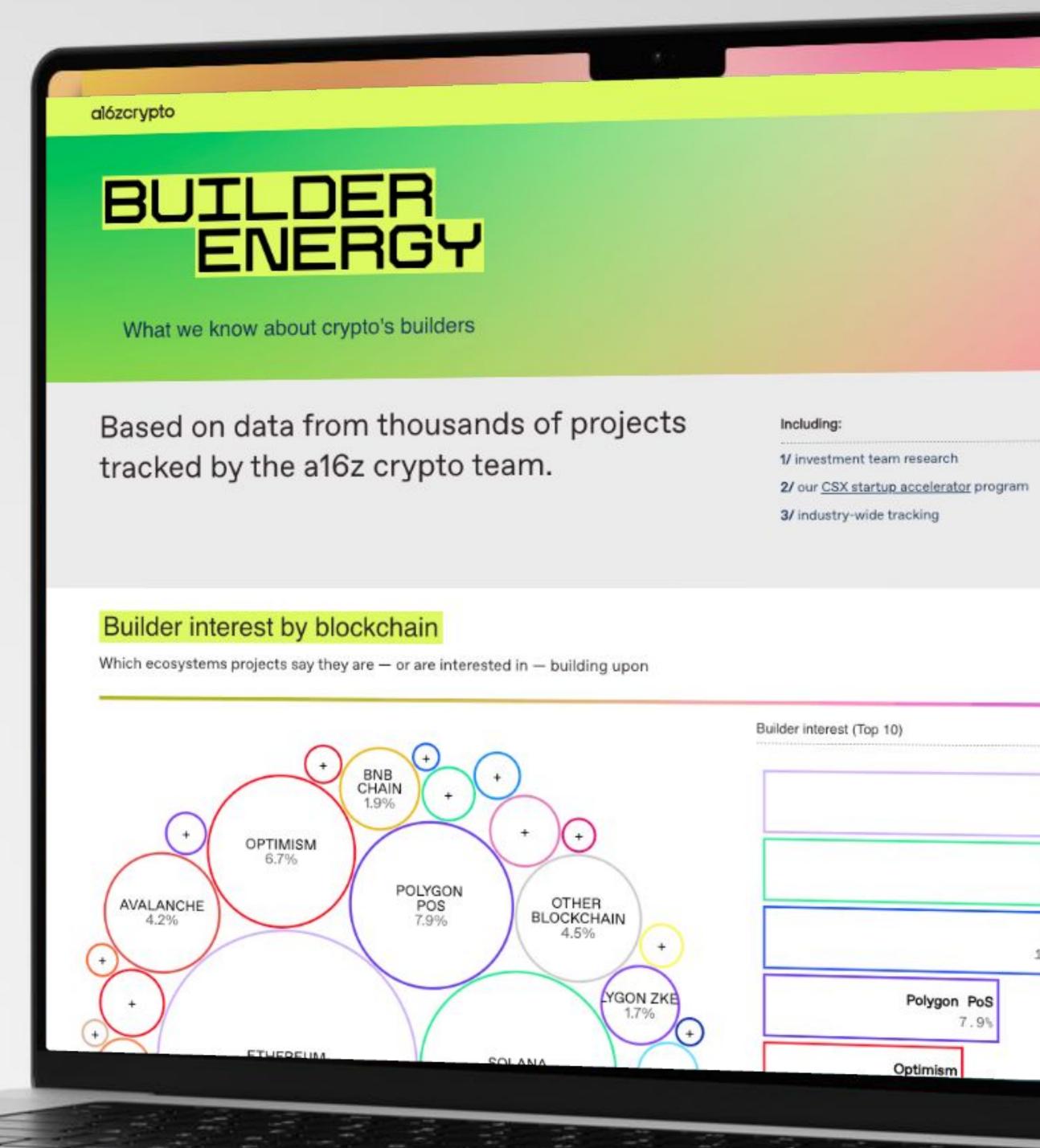




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# Explore the Builder Energy Dashboard

Click here to see more



Source: a16z crypto's <u>Builder Energy Dashboard</u> is based on data from thousands of crypto projects we've tracked over the past two years, including investment team research, our CSX startup accelerator program, and other industry-wide tracking through Sept 2024. Please note this does not include all builders or founders and is meant to be for informational purposes only.

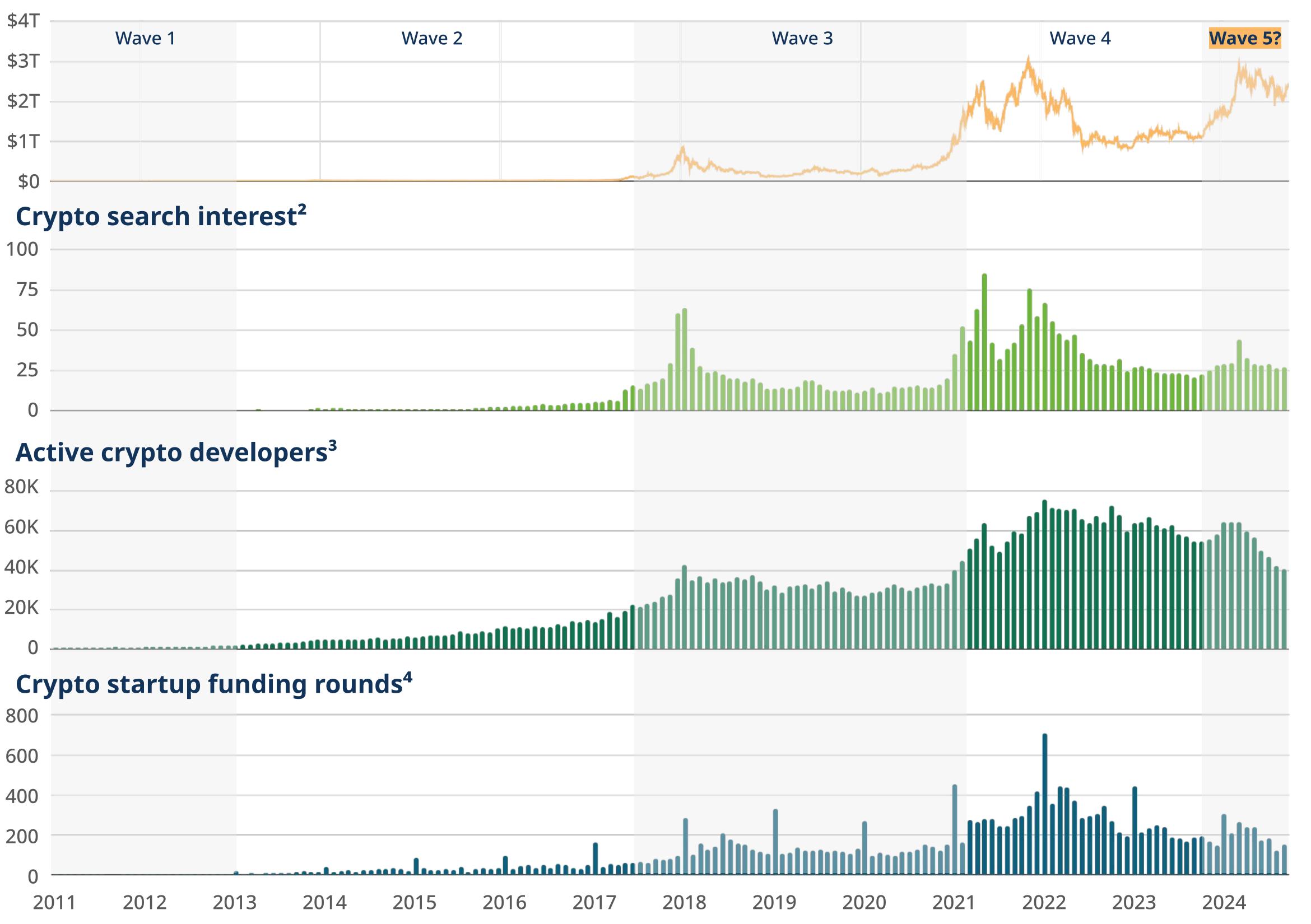
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## What's next for crypto?



# Are we entering a new wave of the crypto priceinnovation cycle — or a false start?





4/ Source: PitchBook as of 9/30/2024.

<sup>1/</sup> Source: CoinGecko as of 9/30/2024.

<sup>2/</sup> Search interest across crypto terms (cryptocurrency, crypto, bitcoin, ethereum, blockchain, web3) | Source: Google Trends + GTAB as of 9/30/2024.

<sup>3/</sup> Number of unique GitHub accounts that committed to, forked, or starred a public crypto repository | Source: GitHub + Electric Capital Ecosystems as of 9/30/2024.

### Some of our thoughts for 2024 and beyond...

The price-innovation cycle will continue to drive the crypto market. When prices go up, people get interested, developers build, and new products push the industry forward.

Crypto has become a hot political topic. The U.S. elections may generate short-term noise, but over a longer timeframe we expect key legislation to pass — resulting in much-needed regulatory clarity for the industry.

Crypto is increasingly global. With prominent political figures now weighing in, many nation states will seek to quickly develop a crypto strategy.

Crypto is becoming accessible to institutional investors. While spot Bitcoin and Ethereum ETPs are trading today, it will take time for the major distributors to activate. Eventually, crypto could become part of a diversified portfolio.

Blockchain infrastructure is maturing. Nearly all of Ethereum's activity has moved to layer 2, with Coinbase's Base L2 leading the way. The result has been **drastically reduced fees for users** that unlock new applications.

L2s aren't the only way to scale blockchains.
Other high-throughput blockchains are on a promising path. In addition, **ZK-coprocessors present a whole new programming paradigm** for scaling computation.

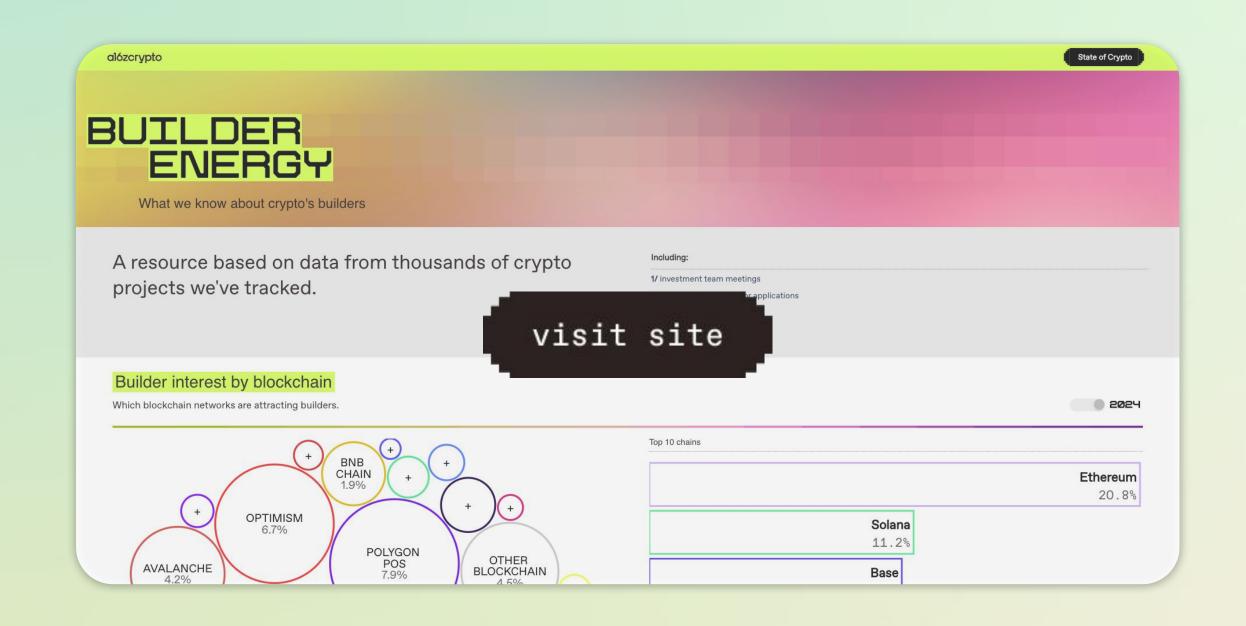
Blockchains can counterbalance AI's tendency to consolidate power on the internet. We expect to see significant development at the intersection of these technologies.

**Stablecoins are emerging as crypto's first "killer app."** As fees come down and more people are onboarded with crypto wallets, we could reach a tipping point where strong network effects kick in. Regulation will play an important role in determining winners in this category.

The potential for bigger ideas — decentralized social networks, a new consumer internet, the metaverse — may take longer to realize, but interesting **early experiments are gaining traction**.

### Learn More

### **Builder Energy Dashboard**



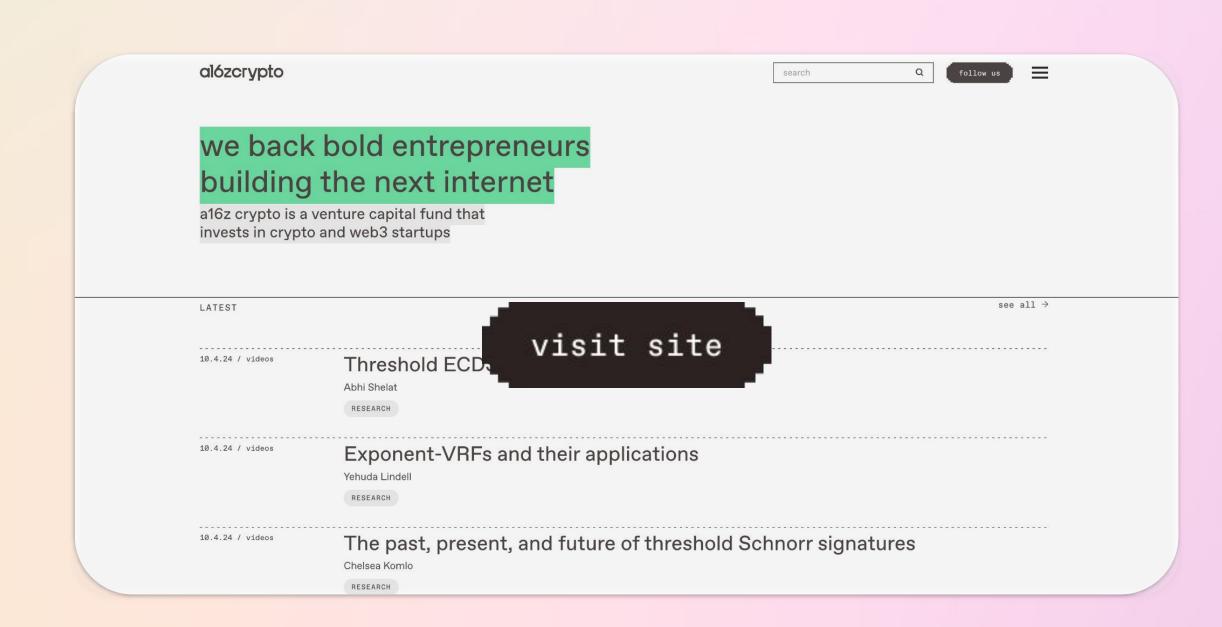
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