

# Consensus 2021

# Chainlink 2.0 Whitepaper and Roadmap

#### Chainlink 2.0: Next Steps in the Evolution of Decentralized Oracle Networks

Lorenz Breidenbach $^1$  Christian Cachin $^2$  Alex Coventry $^1$  Steve Ellis $^1$  Ari Juels $^3$  Andrew Miller $^5$  Brendan Magauran $^1$  Sergey Nazarov $^1$  Alexandru Topliceanu $^1$  Fan Zhang $^8$ 

Benedict Chan<sup>1</sup>
Farinaz Koushanfar<sup>4</sup>
Daniel Moroz<sup>6</sup>
Florian Tramèr<sup>7</sup>

15 April 2021 v1.0

<sup>&</sup>lt;sup>1</sup>Chainlink Labs

<sup>&</sup>lt;sup>2</sup>The author is a faculty member at University of Bern. He co-authored this work in his separate capacity as an advisor to Chainlink Labs.

<sup>&</sup>lt;sup>3</sup>The author is a faculty member at Cornell Tech. He co-authored this work in his separate capacity as Chief Scientist at Chainlink Labs.

<sup>&</sup>lt;sup>4</sup>The author is a faculty member at University of California, San Diego. She co-authored this work in her separate capacity as an advisor to Chainlink Labs.

The author is a faculty member at University of Illinois Urbana-Champaign. He co-authored this

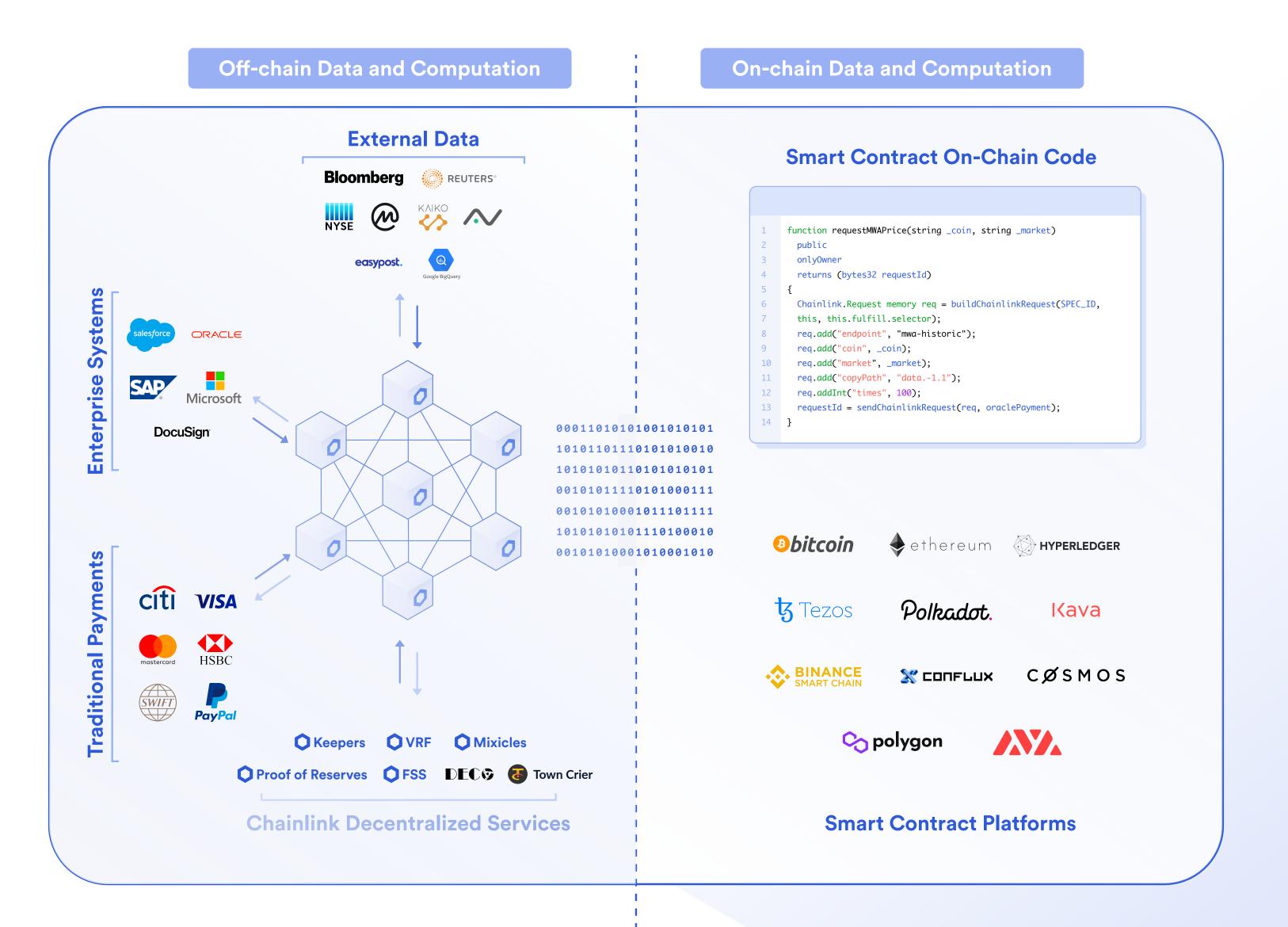
#### The Decentralized Infrastructure Continuum/Trade Off



**Trust Minimization** 



## Combining On-chain & Off-chain Systems Securely/Reliably





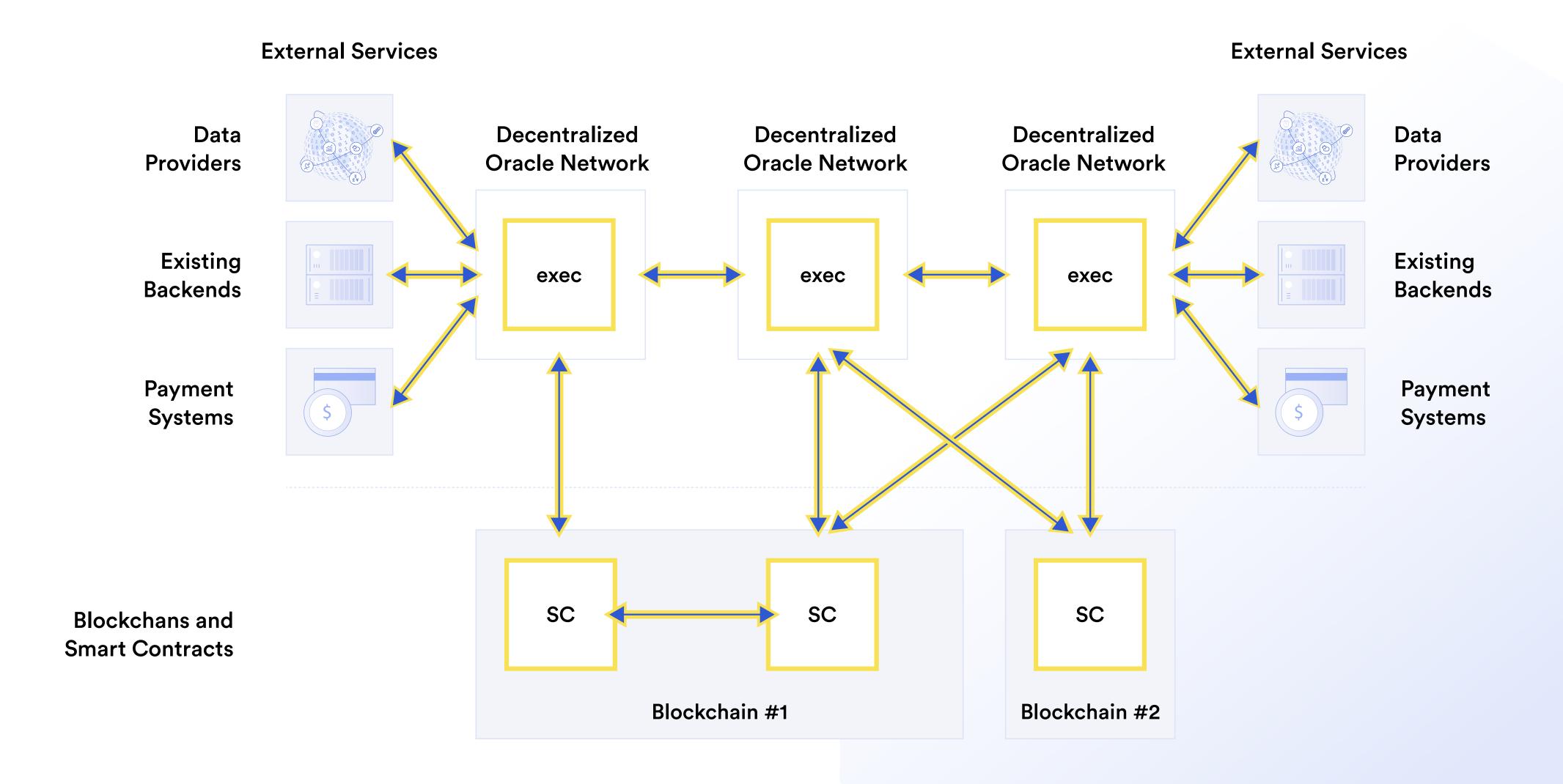
#### Decentralized Oracle Networks Create Key Functionality



**Trust Minimization** 

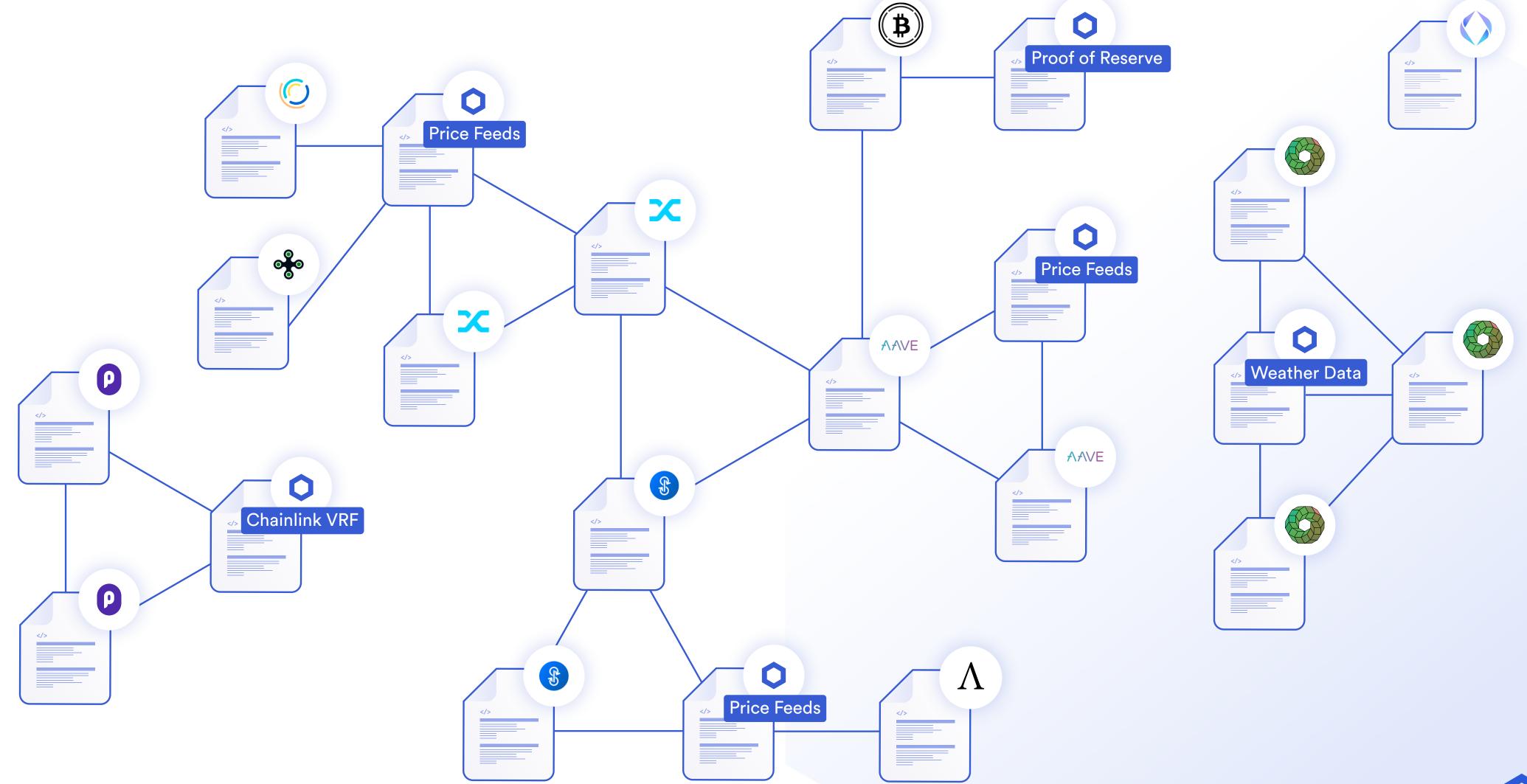


## Hybrid Smart Contracts Will Be Continually More Advanced



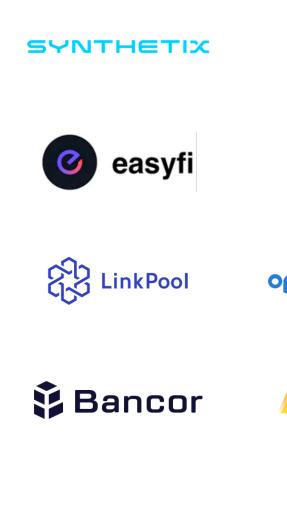


## Hybrid Smart Contracts Already Happening as DeFi





### Over \$30 Billion in DeFi is Using or Integrating Chainlink

















































































"With partnerships across DeFi and traditional markets, the ground the Chainlink team has covered in a short time is nothing short of breathtaking."



"Chainlink has taken a commanding lead among DeFi oracles, a perch that's been strengthened with frequent announcements of new partnerships and node operators."



"Chainlink's price oracles are quickly emerging as the industry-standard data source for the DeFi sector"





### Chainlink is Expanding into New Data and Computation

#### **Highly Validated Data**



































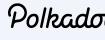






































































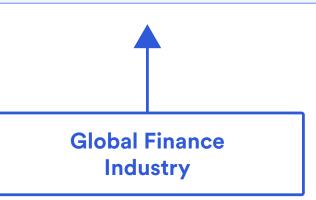




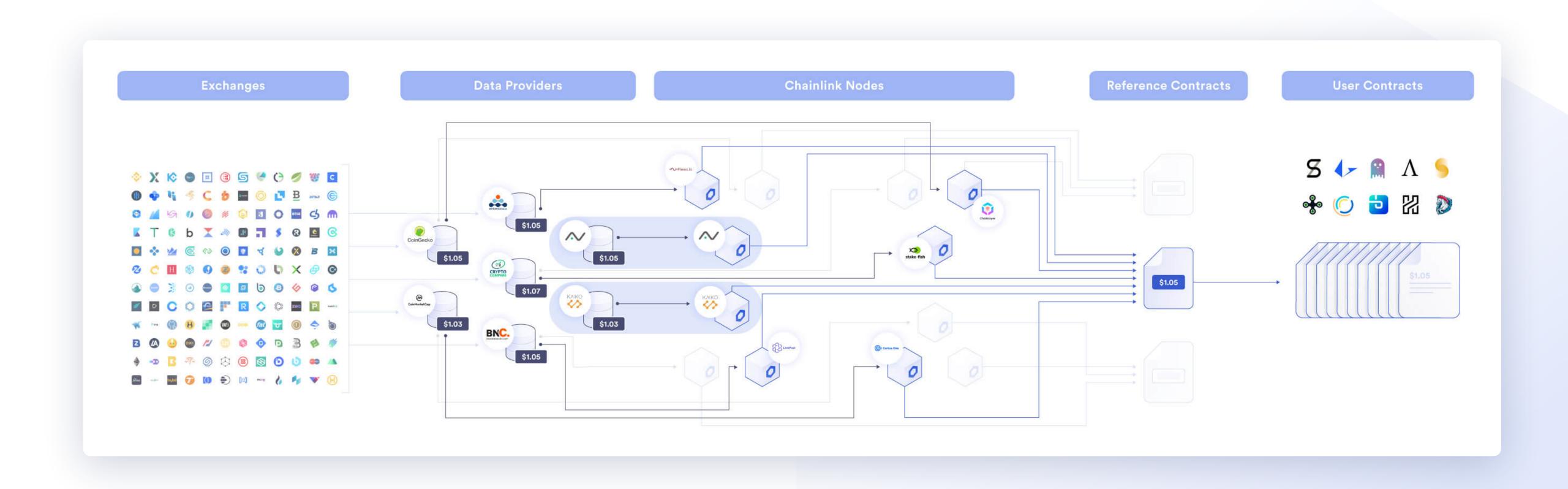






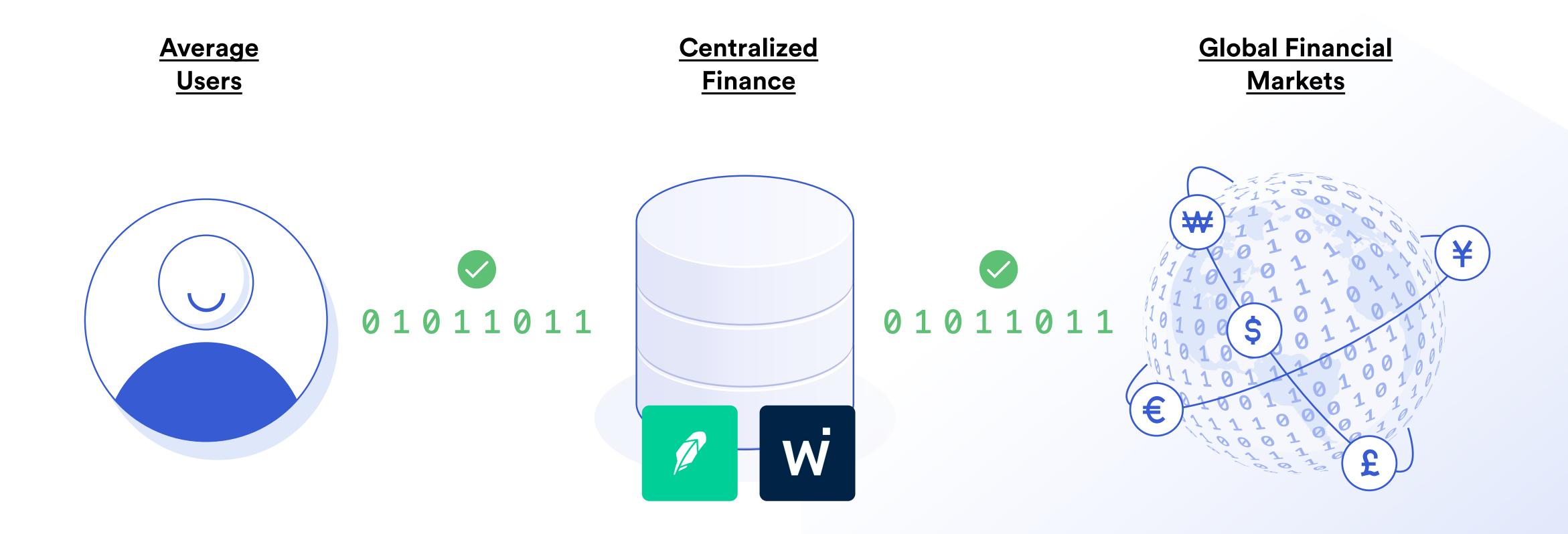


# Price Data Enables DeFi to Reinvent the Financial System





#### CeFi Financial Products Work Well in Predictable Conditions

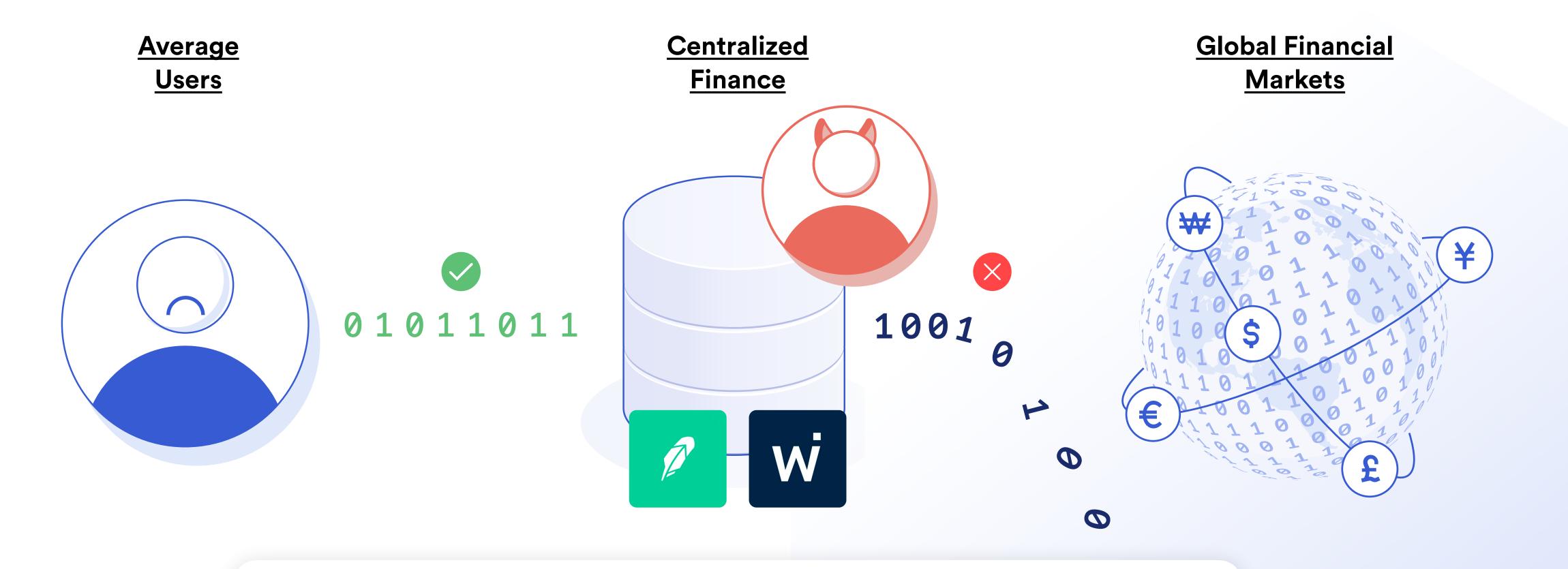


#### **MarketWatch**

Robinhood day traders are squeezing the hedge funds — here's why it may continue



### CeFi Financial Products Will Not Support the Average User

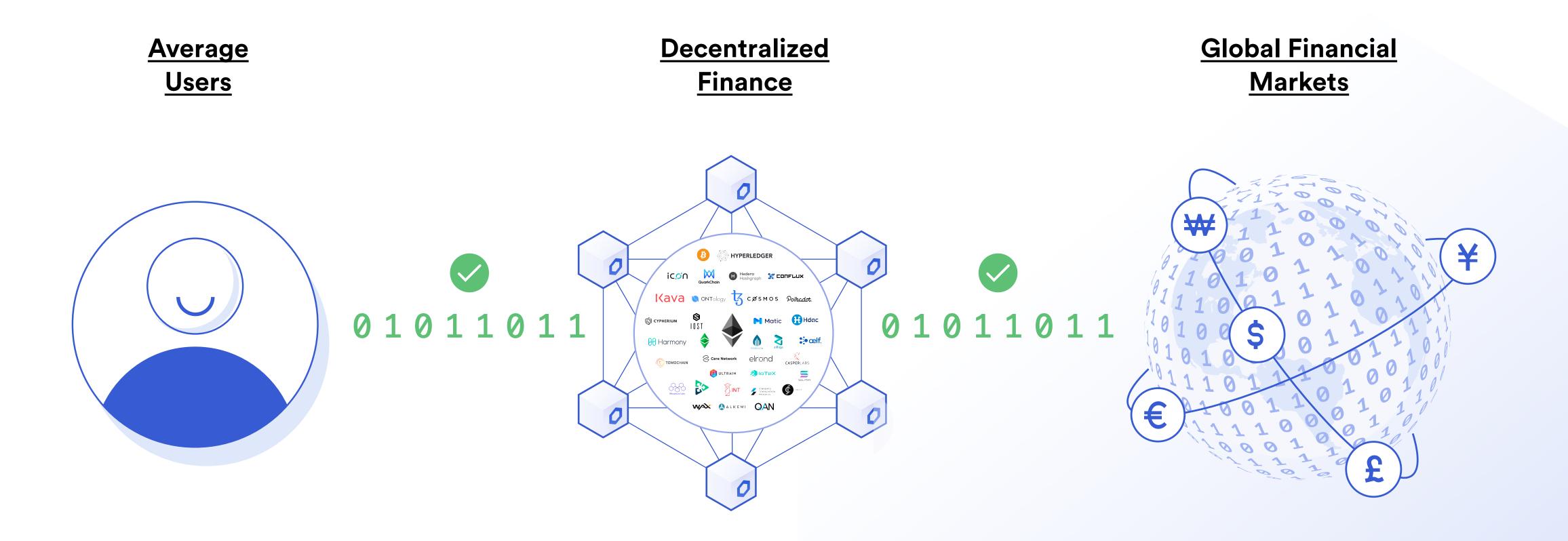




Robinhood Stops Users From Trading GameStop Stocks, Other Reddit YOLO Picks



#### DeFi Completely Redefines a User's Relationship to Markets



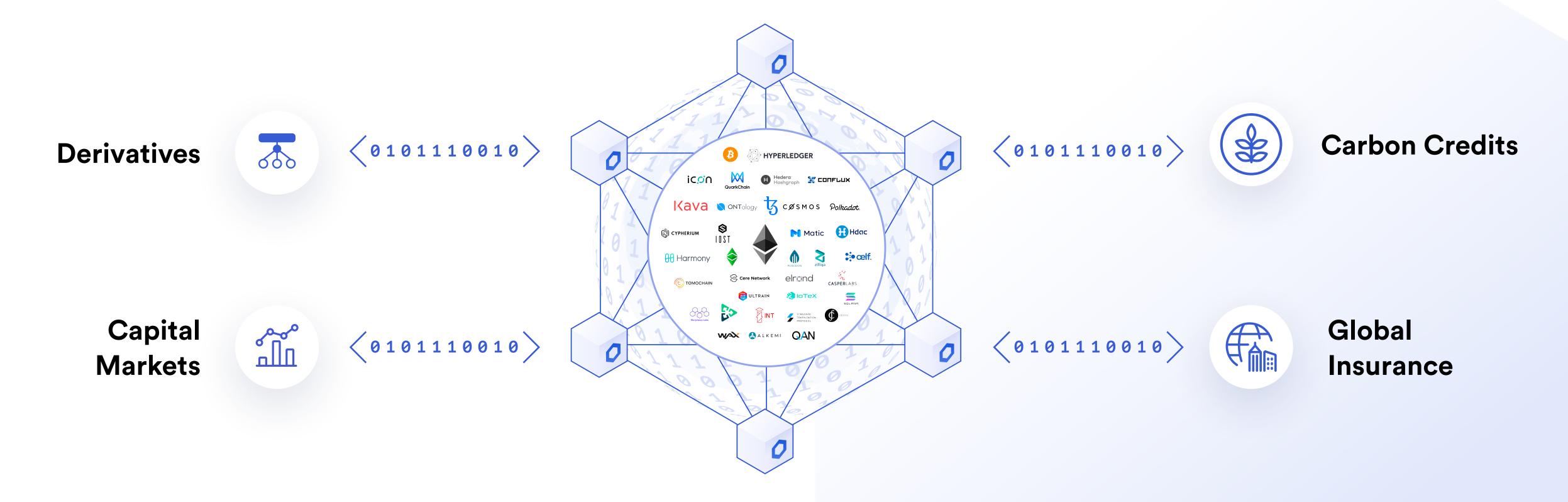


DeFi Trend: The Solution — and Huge Opportunity — to the Robinhood Fiasco



### Global Markets will Interoperate Through DeFi Protocols

#### **Decentralized Finance**





#### Access to Off-chain Resources Enables More Contracts

#### **Highly Validated Data**





































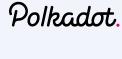






































































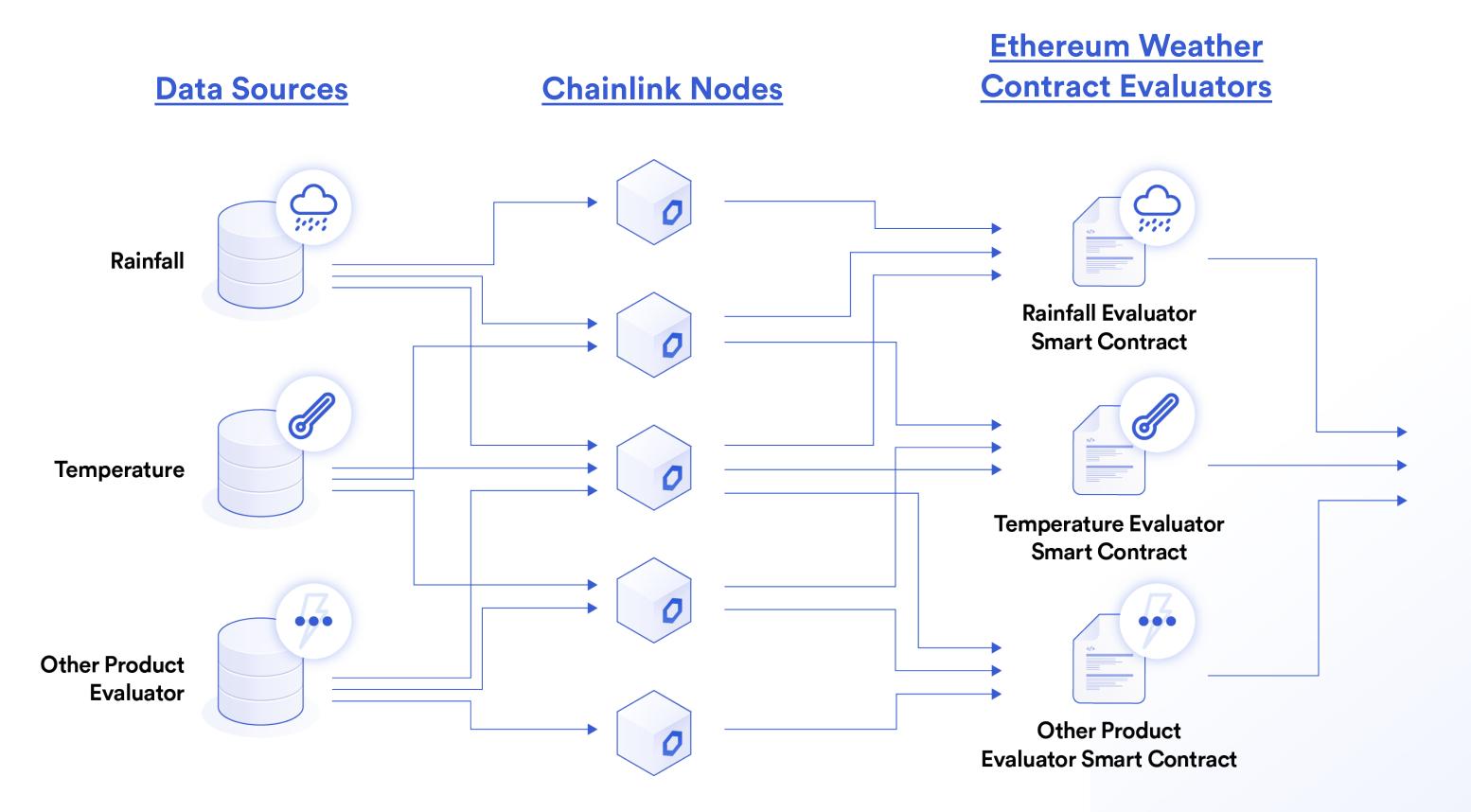




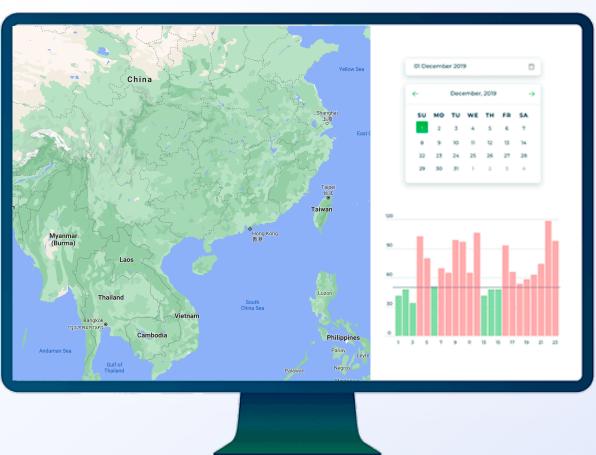




#### Weather Data Creates Smart Contract Crop Insurance

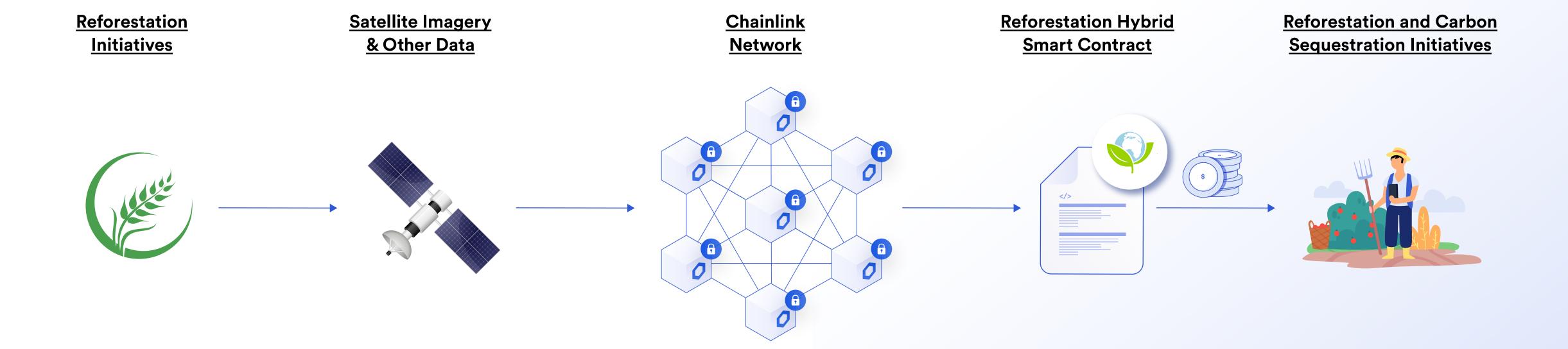








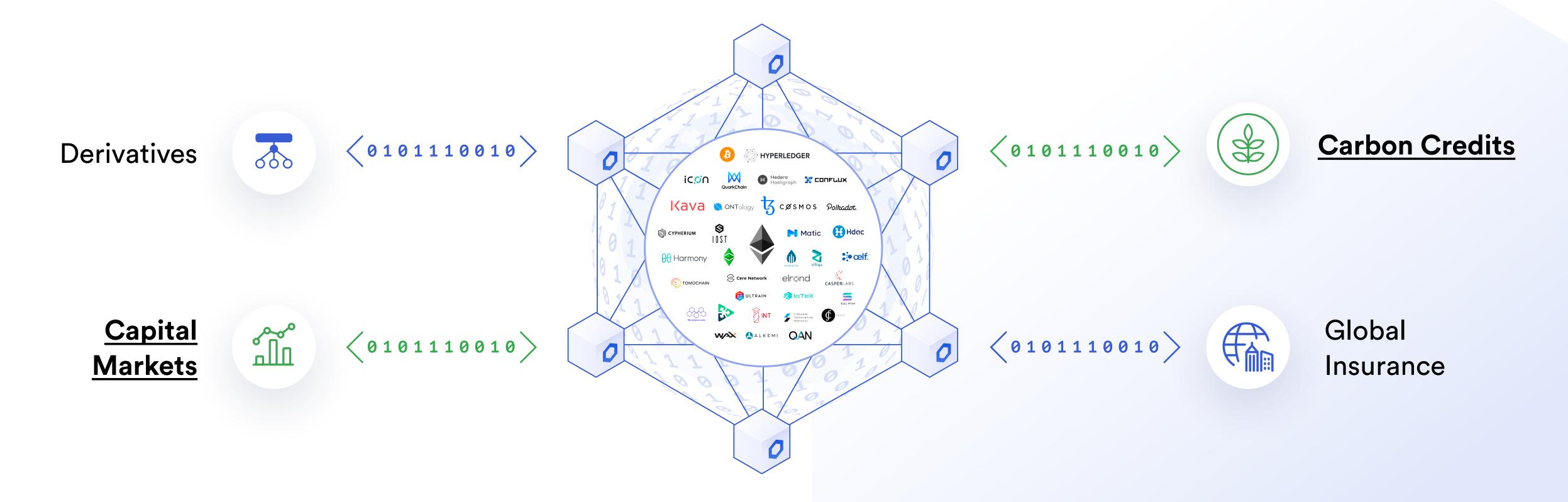
# Reforestation and Automated Carbon Tax Credit Systems





### A Global Market for Carbon Sequestration and Reforestation

#### **Decentralized Finance**

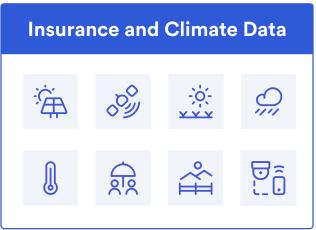




#### Access to Off-chain Resources Enables More Contracts

# **Highly Validated Data**



























































































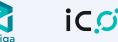




























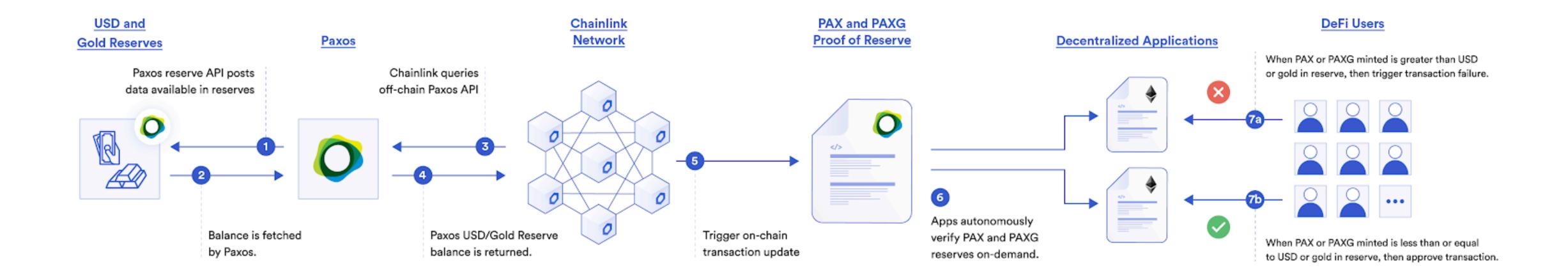








#### Proof of Reserve Creates Automated and Reliable Audits











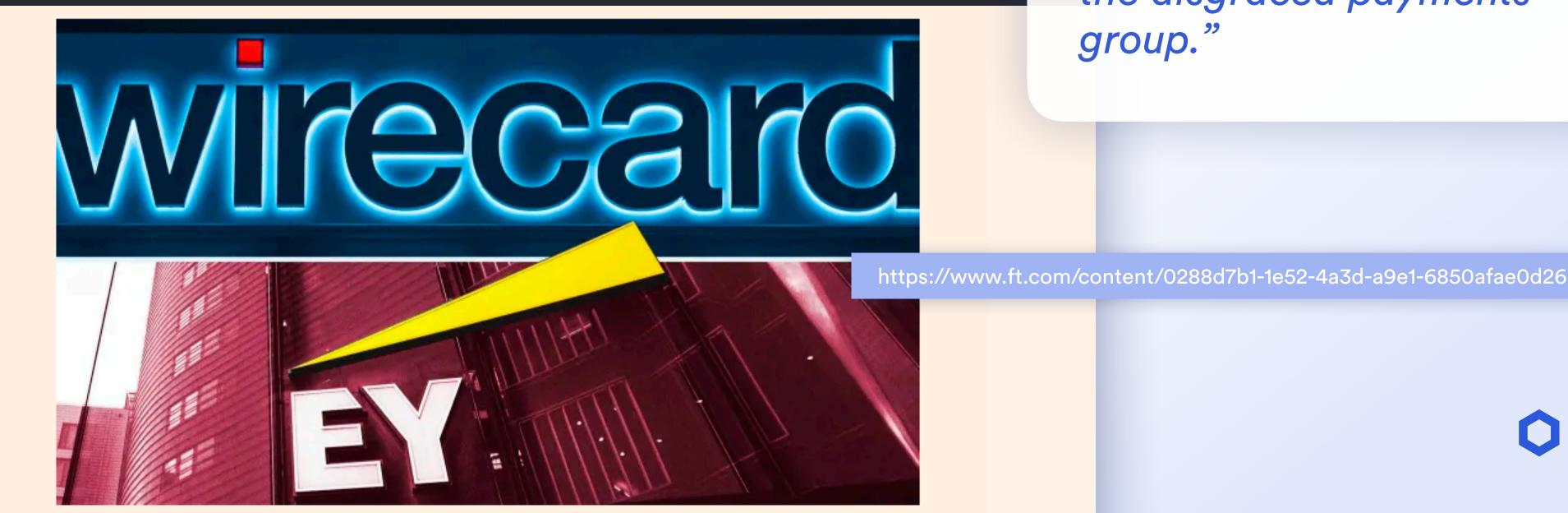


#### Existing Audits Can Benefit from Hybrid Smart Contracts

#### FINANCIAL TIMES

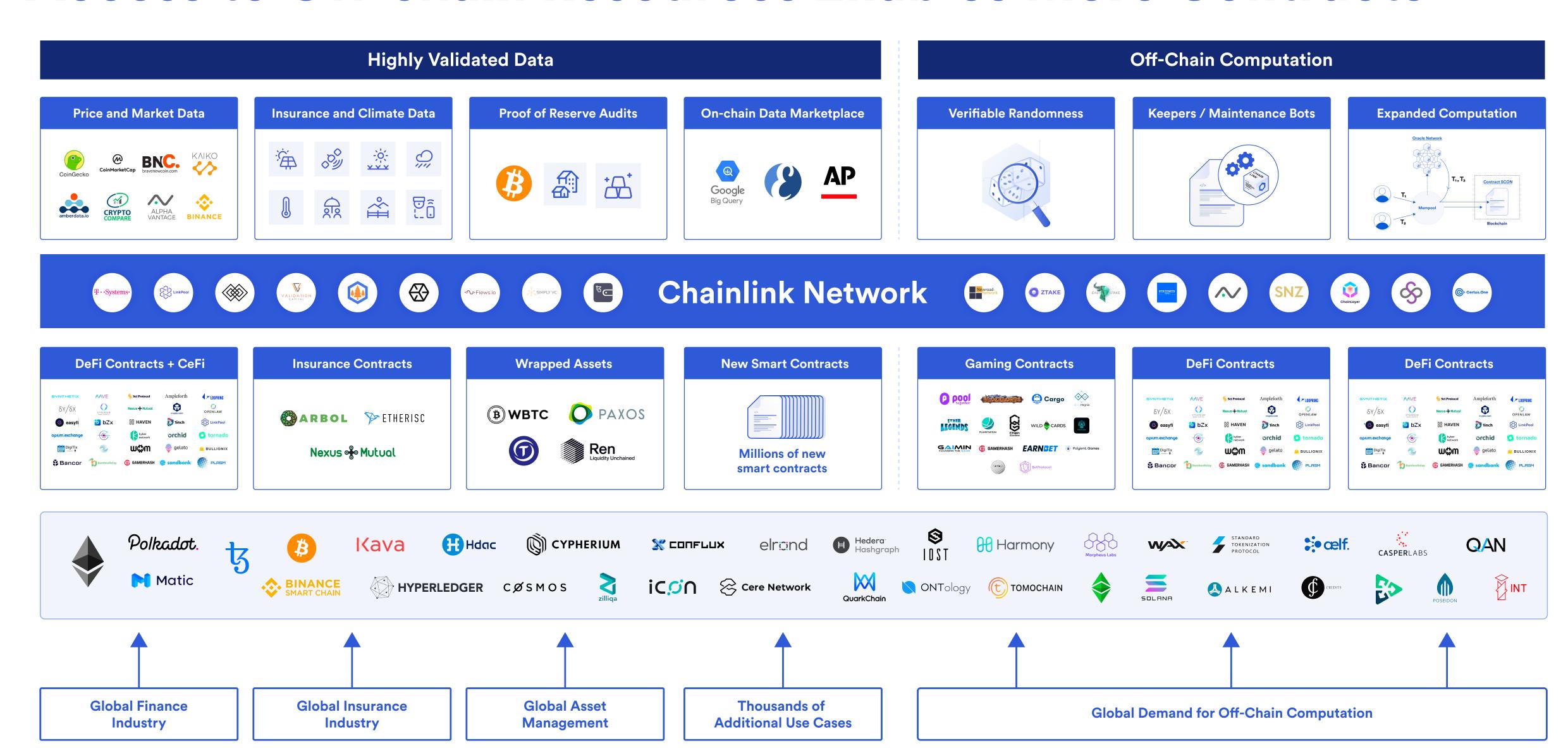
EY fraud expert: 'incomprehensible' that Wirecard 'red flags' were ignored



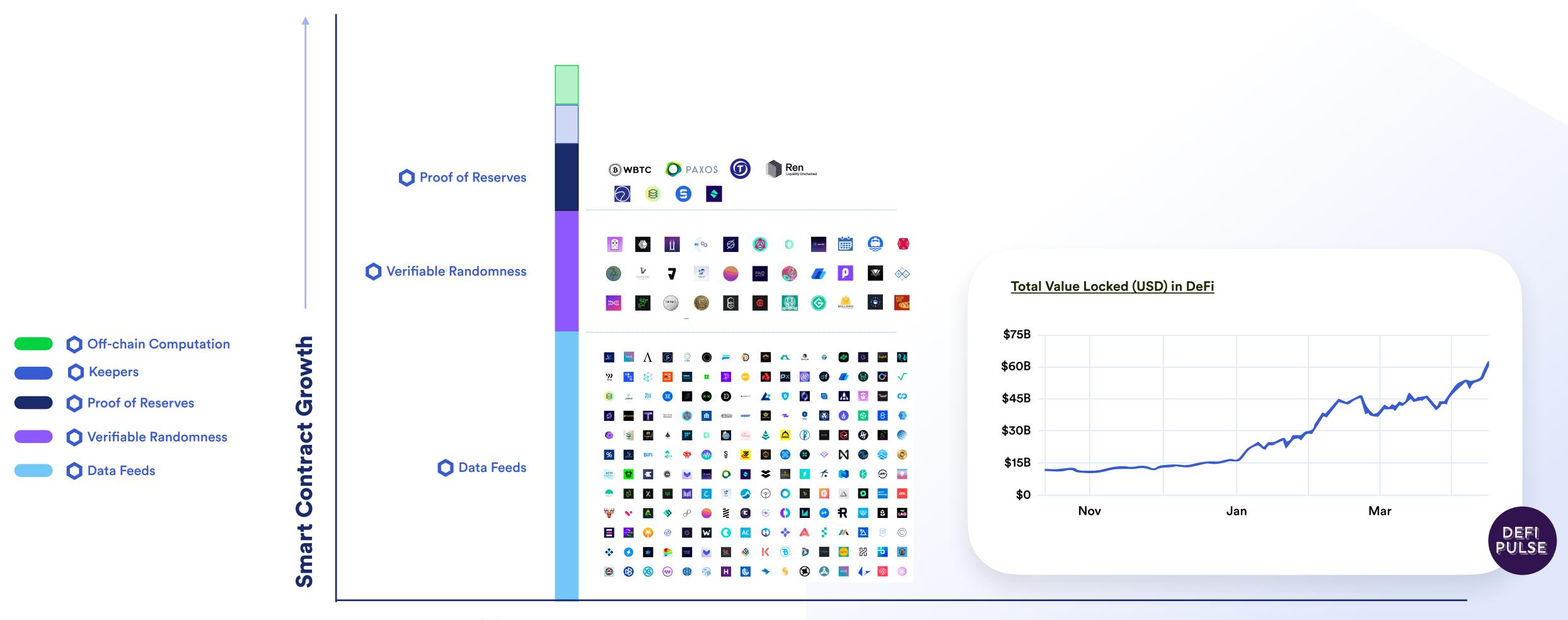


Chainlink

#### Access to Off-chain Resources Enables More Contracts

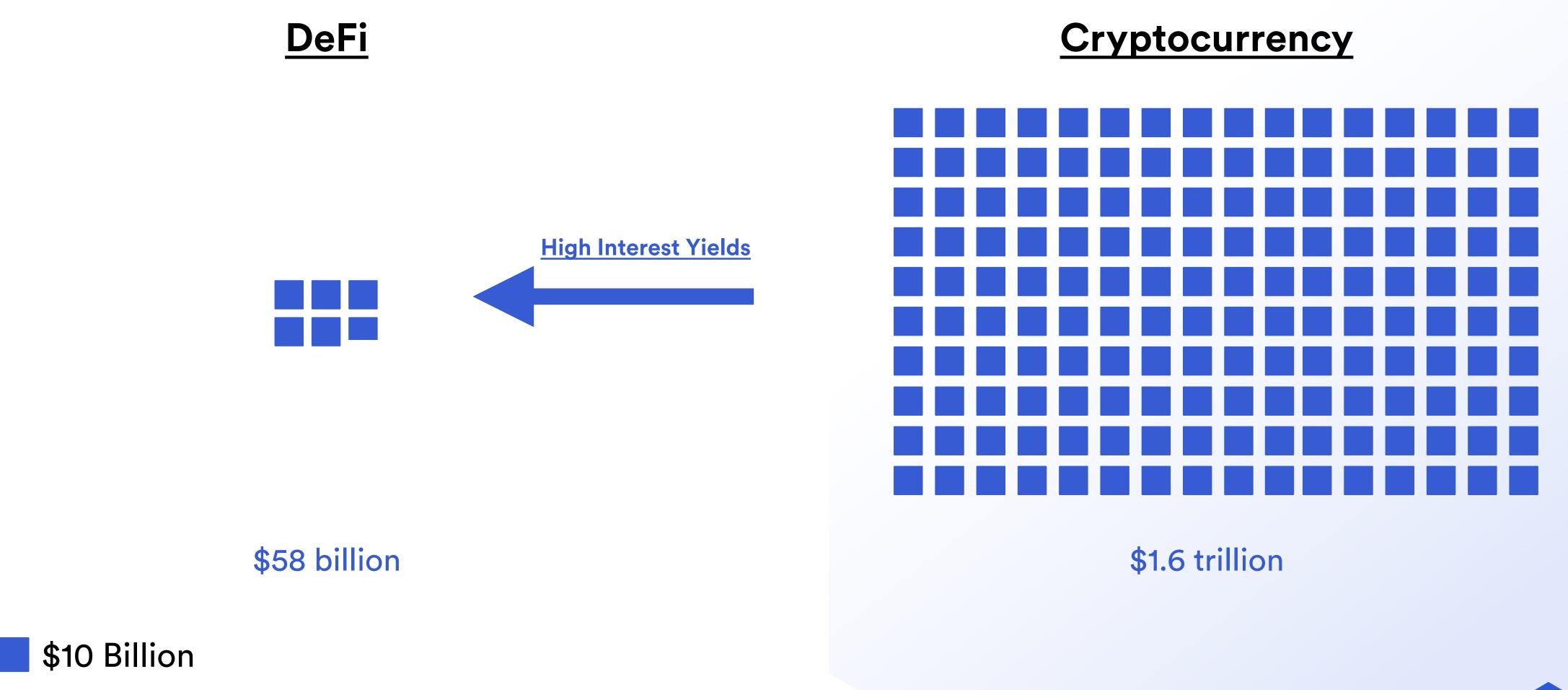


#### More Hybrid Smart Contracts Need More DON Services



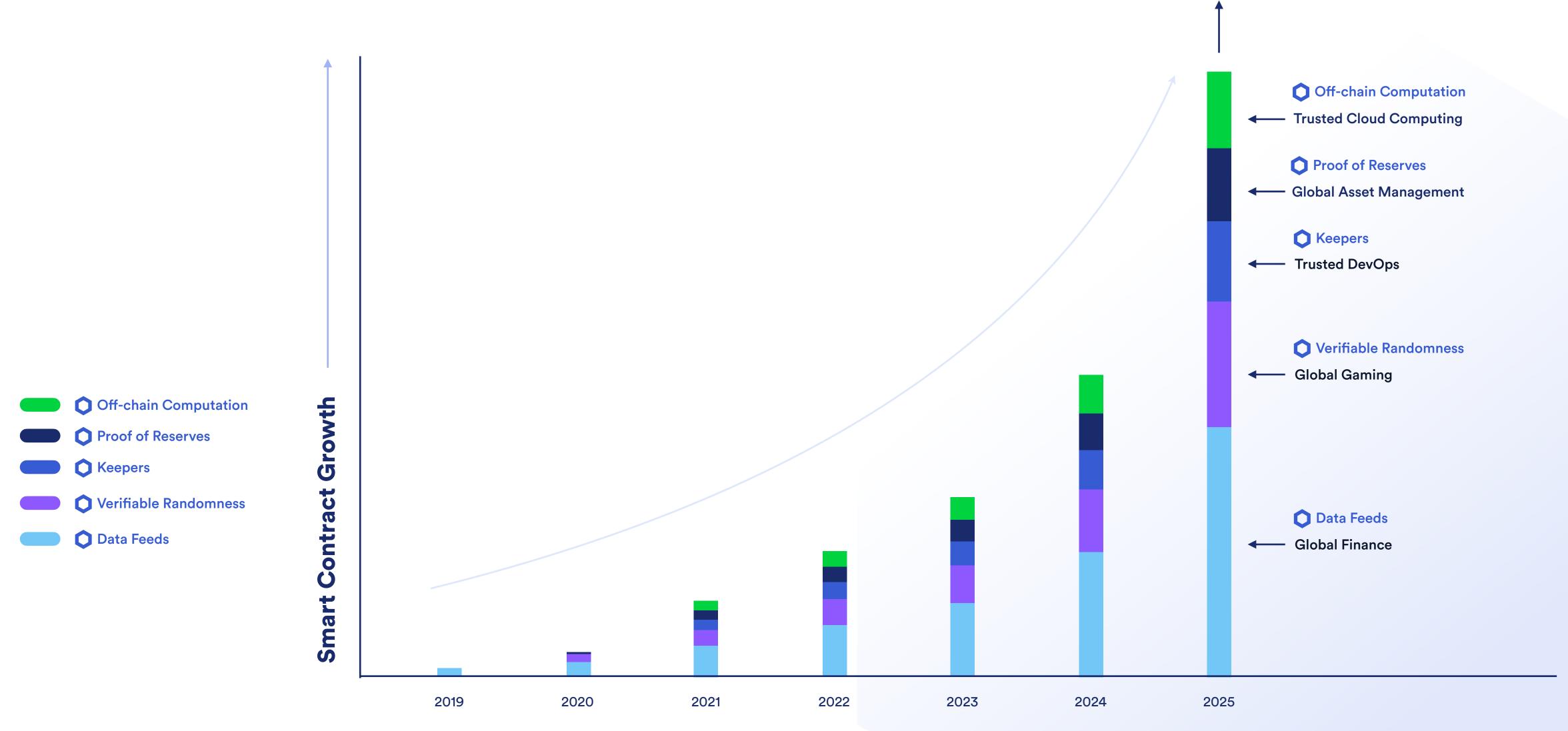


#### DeFi is Still Only ~3.6% of All Value in Cryptocurrency



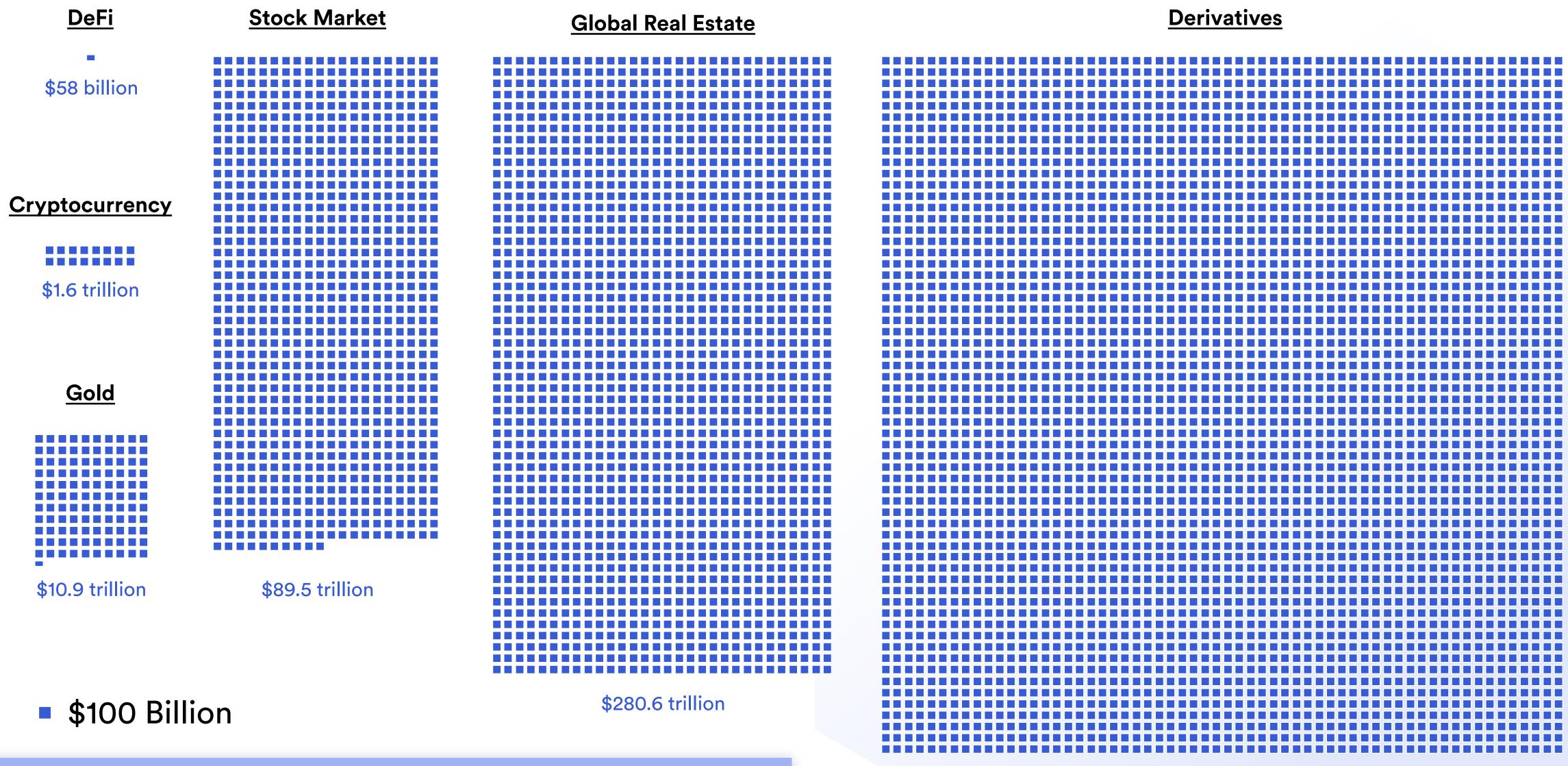


#### More Hybrid Smart Contracts Need More DON Services

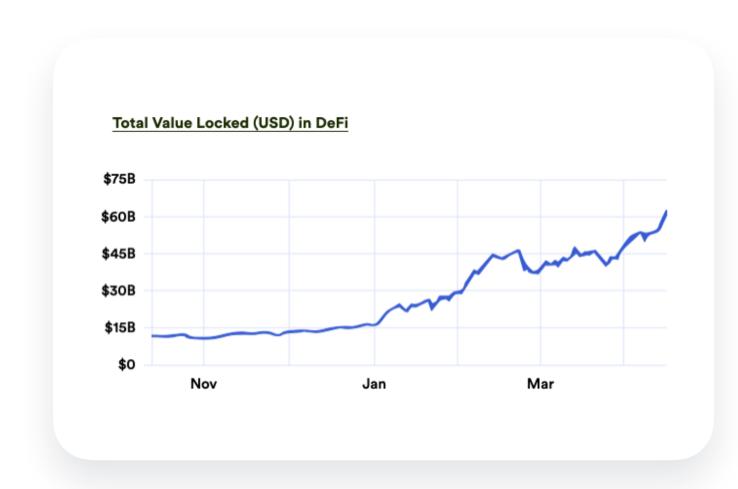


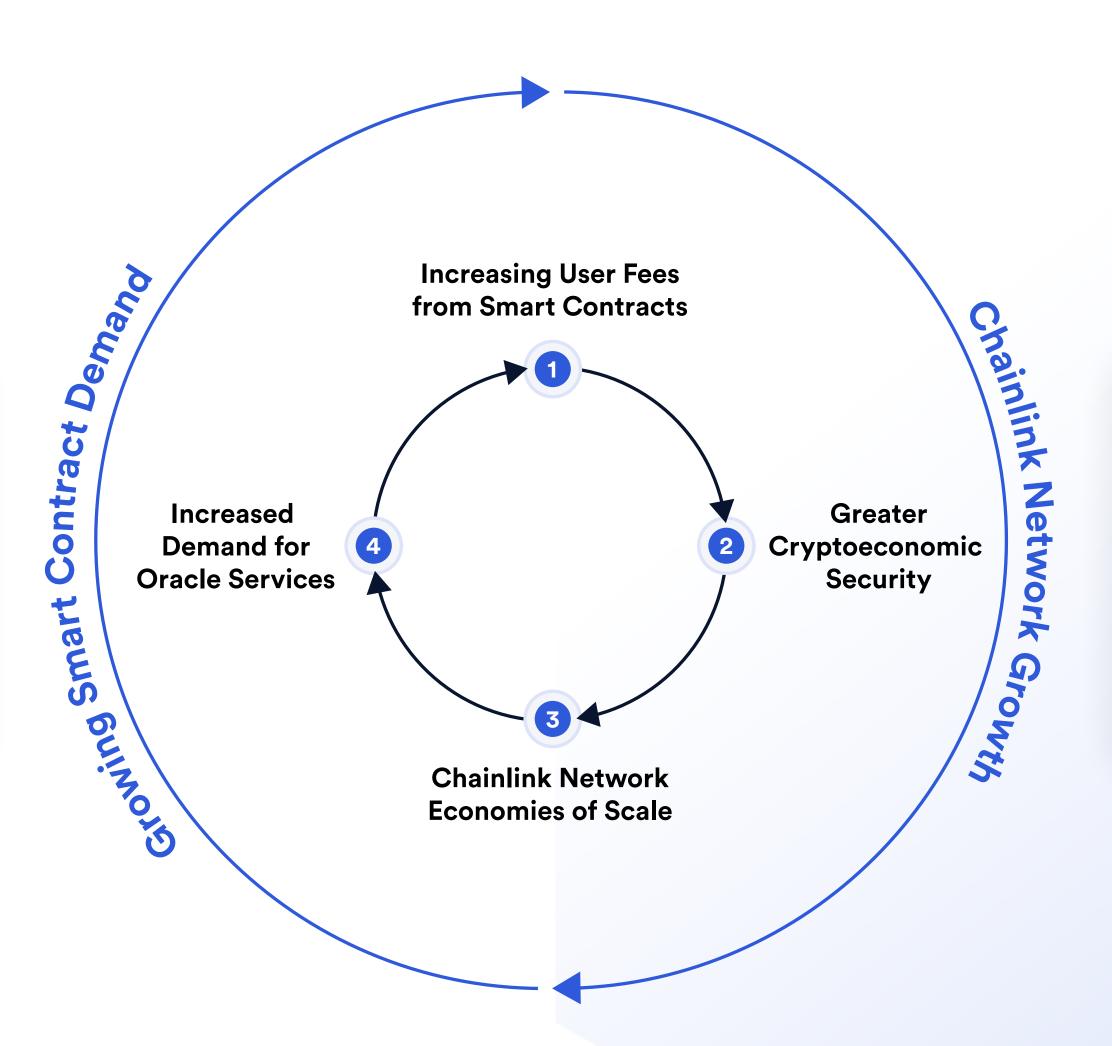


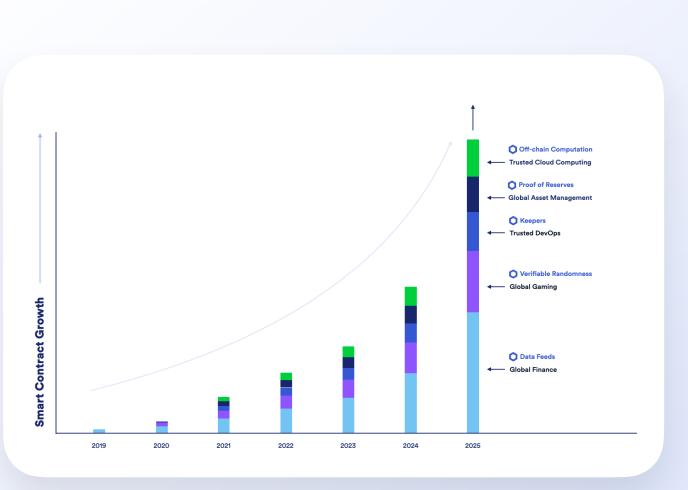
#### The Remaining Market For Smart Contracts is Trillions



#### Greater Cryptoeconomic Security from More Network Users

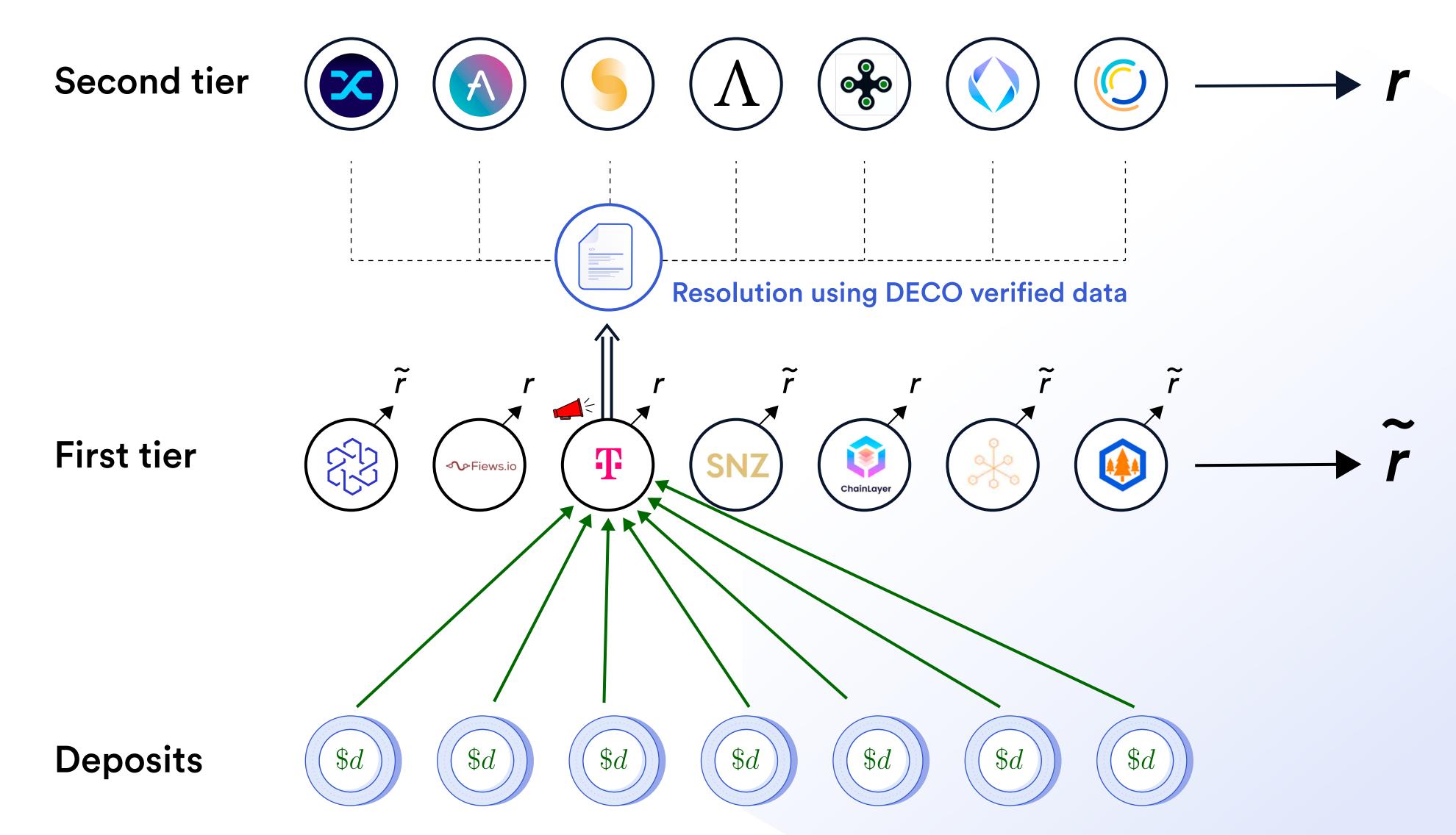




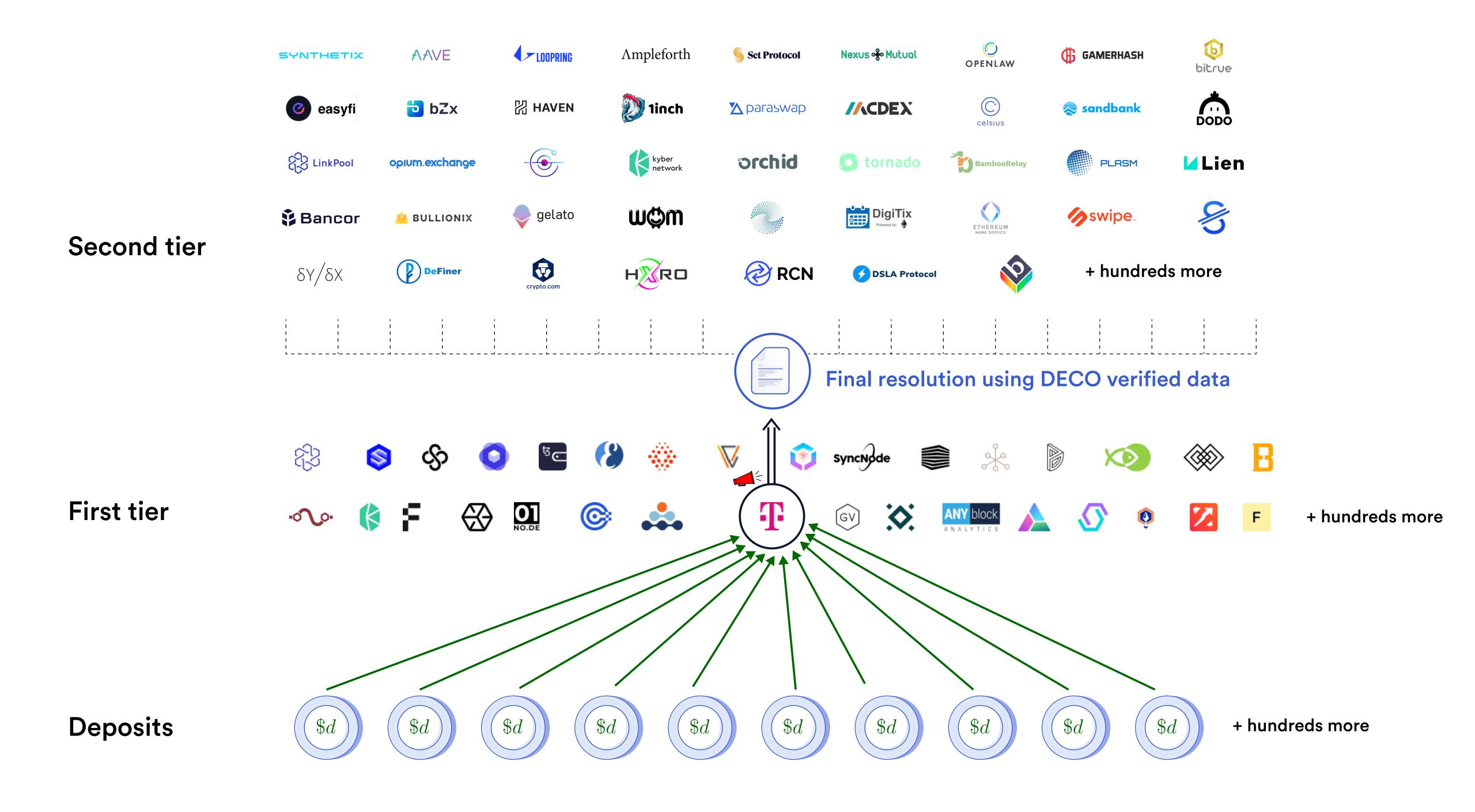




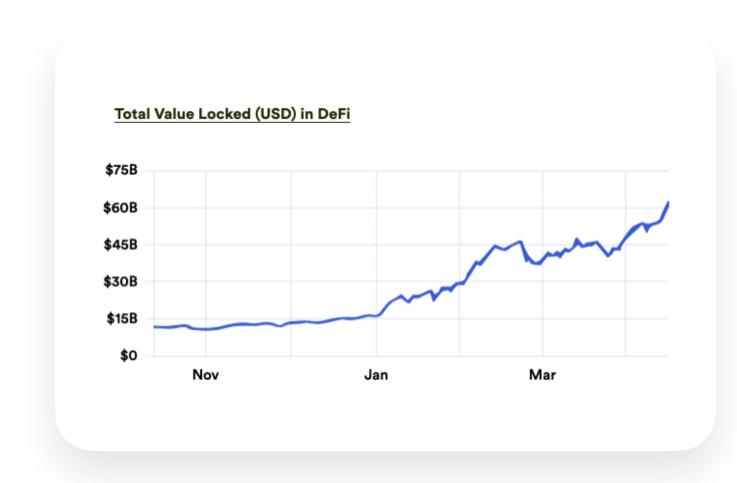
#### A Large Ecosystem of Alerters and Second Tier Adjudicators

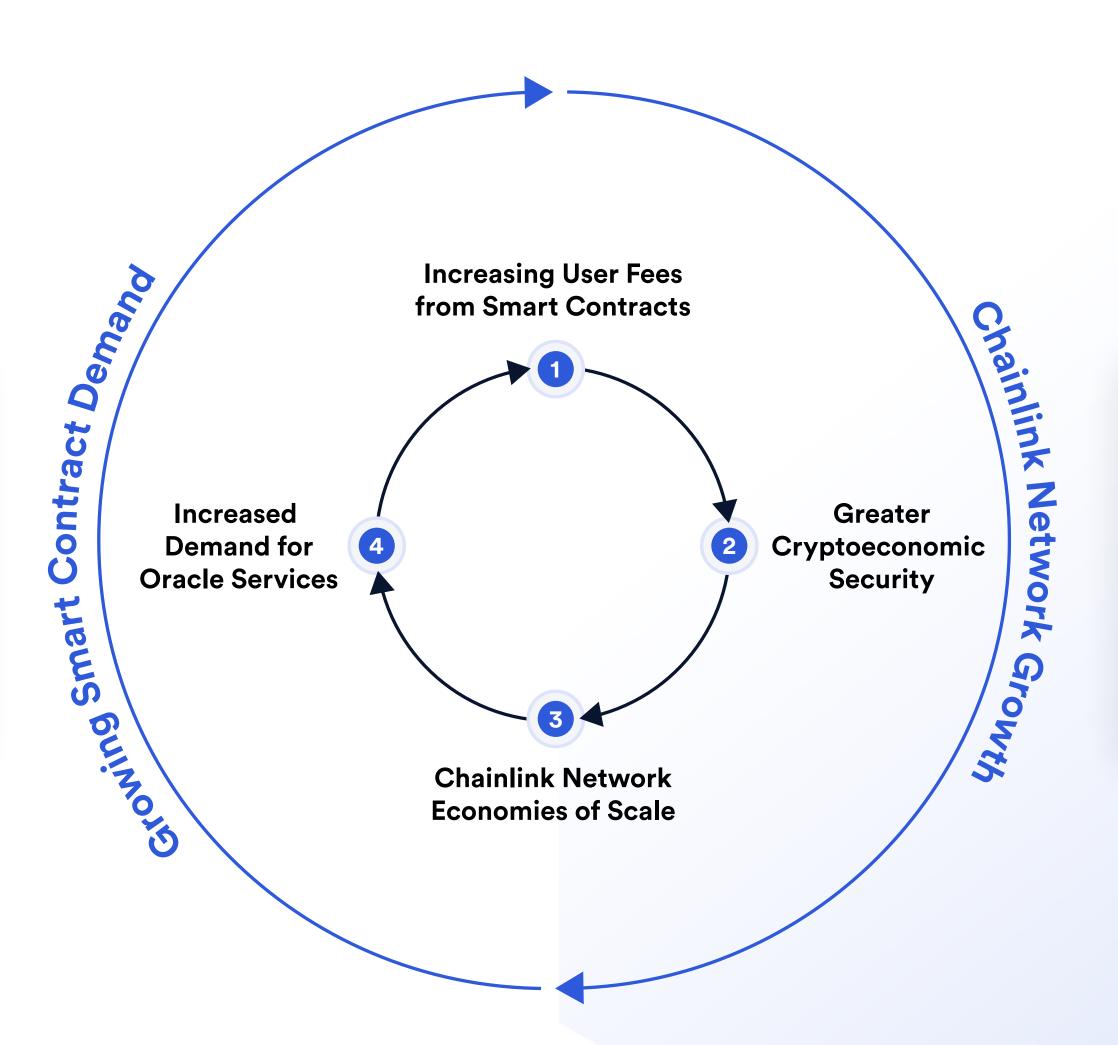


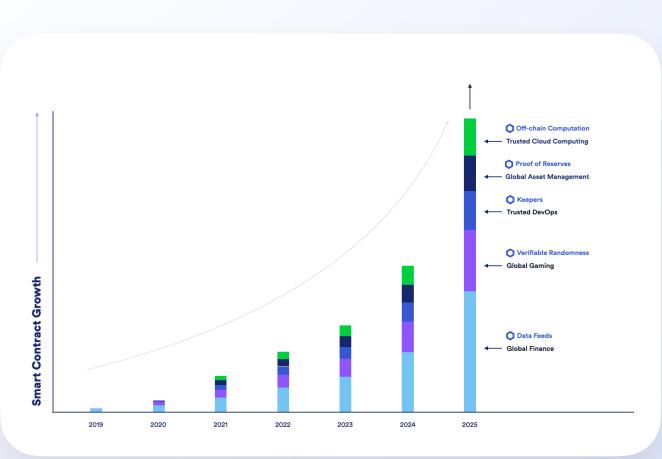




# Cryptoeconomic Security Driven By Large Network Effects

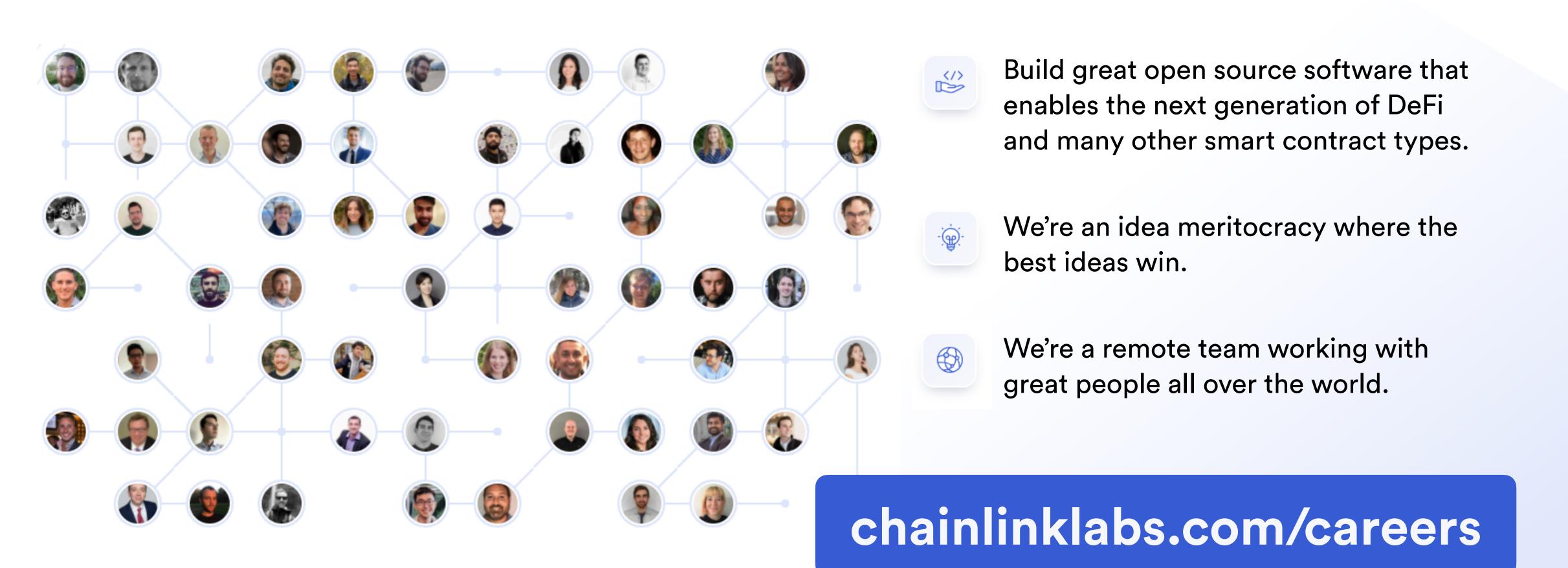






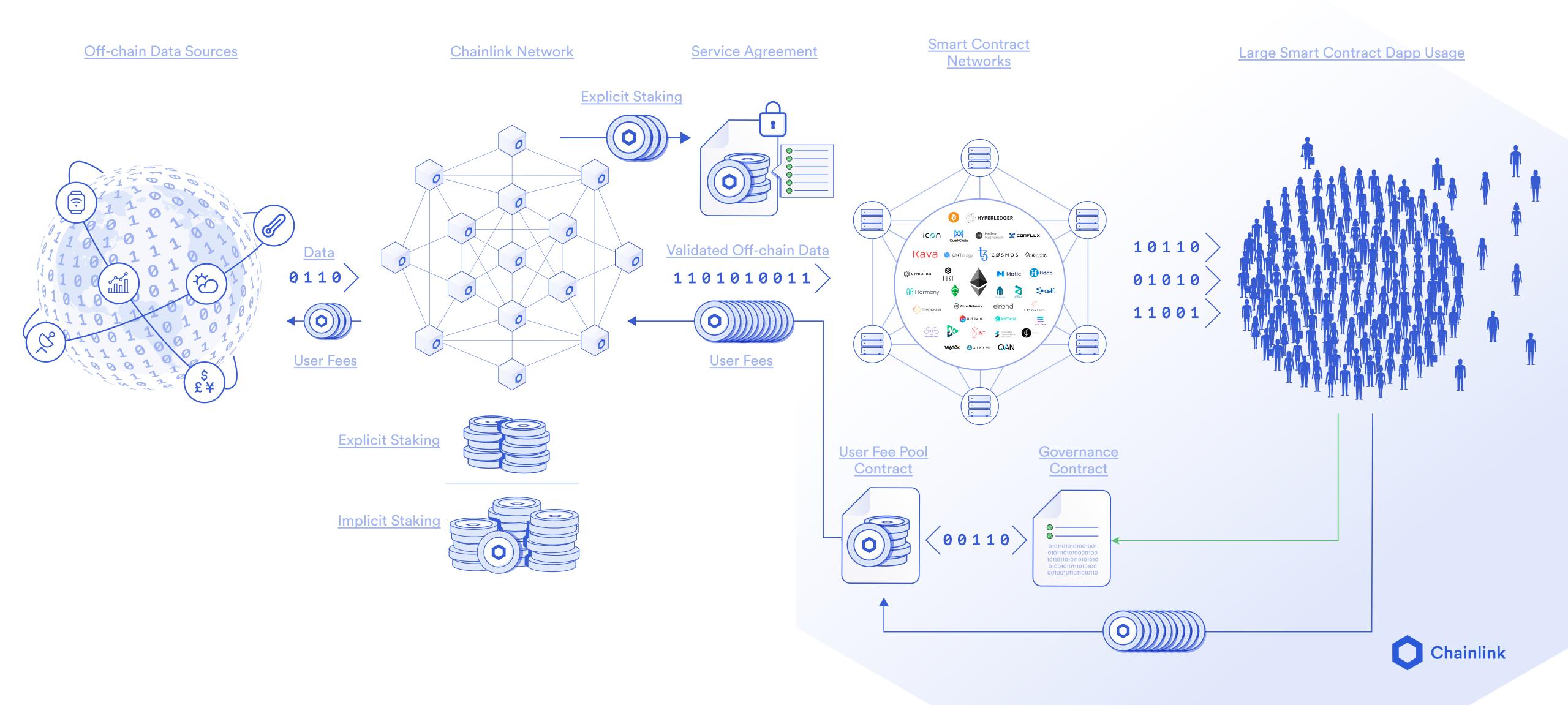


#### Help Build the Future of Hybrid Smart Contracts





### Fees and Staking Grow With Smart Contract Usage



# Thank You

Disclaimer: This presentation is for informational purposes only and contains statements about the future, including anticipated programs and features, developments, and timelines for the rollout of these programs and features. These statements are only predictions and reflect current beliefs and expectations with respect to future events; they are based on assumptions and are subject to risk, uncertainties, and change at any time. There can be no guarantee that any of the contemplated programs or features will be implemented as specified nor any assurance that actual results will not differ materially from those expressed in these statements, although we believe them to be based on reasonable assumptions. All statements are valid only as of the date first presented. The statements in this presentation also may not reflect future developments due to user feedback or later events and we may not update this presentation in response.

