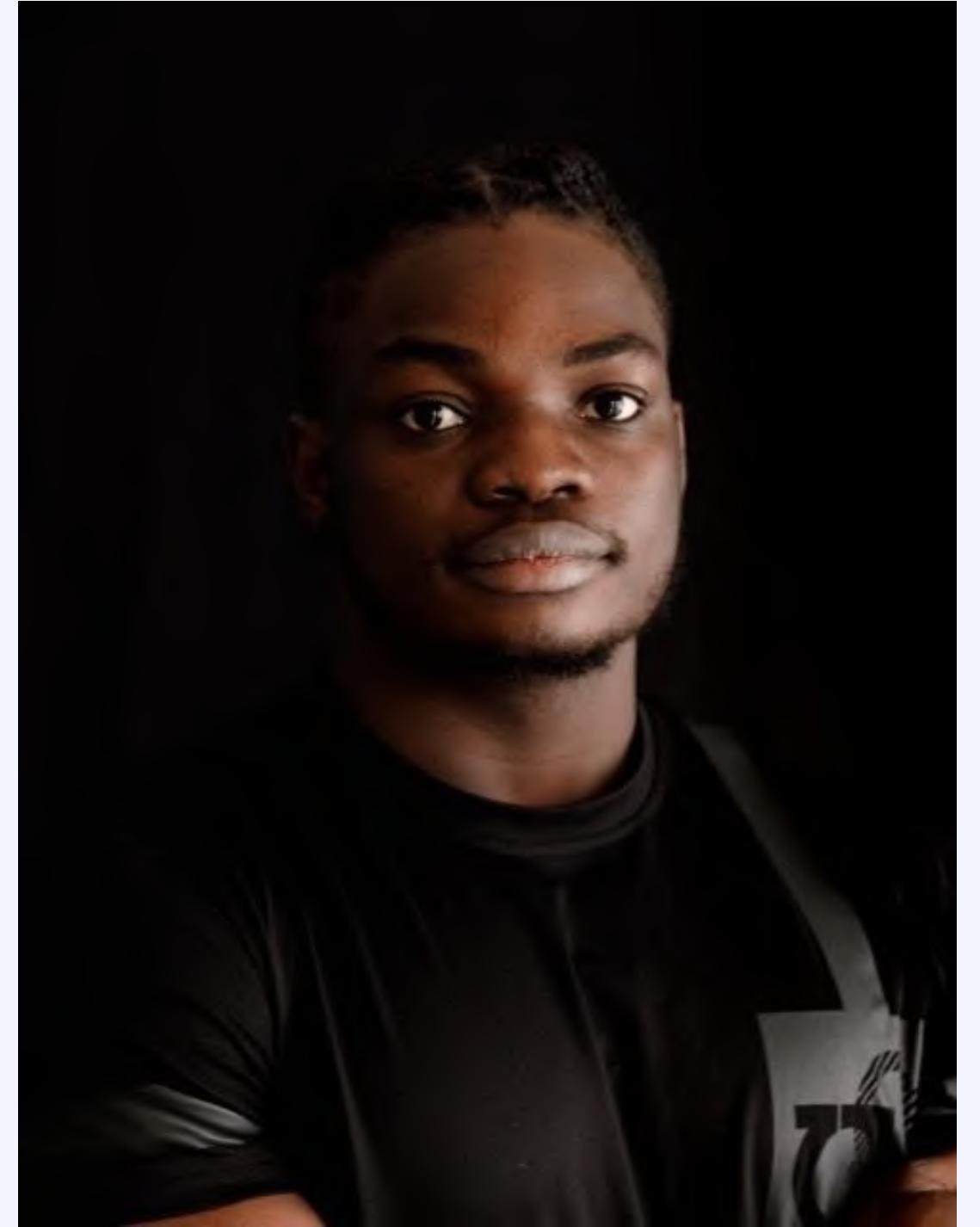


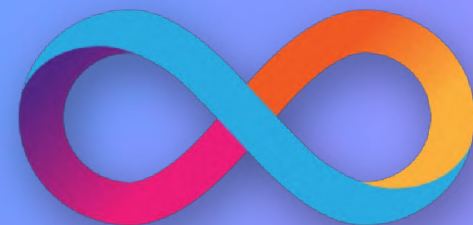
Samuel Akinosho of Dfinity

· @LUCIDSAMUEL



SAMUEL AKINOSHO

THE INTERNET COMPUTER BLOCKCHAIN



D F I N I T Y



Hardcore *Chainkey Cryptography* technologies enables the Internet
Computer to support *true Web3* targeting:

"BLOCKCHAIN SINGULARITY"

Where the majority of human, online system and services run *entirely* on a
World Computer Blockchain...



The Internet computer is now processing *more than half a billion* transactions daily

5,500+

TX/SECOND

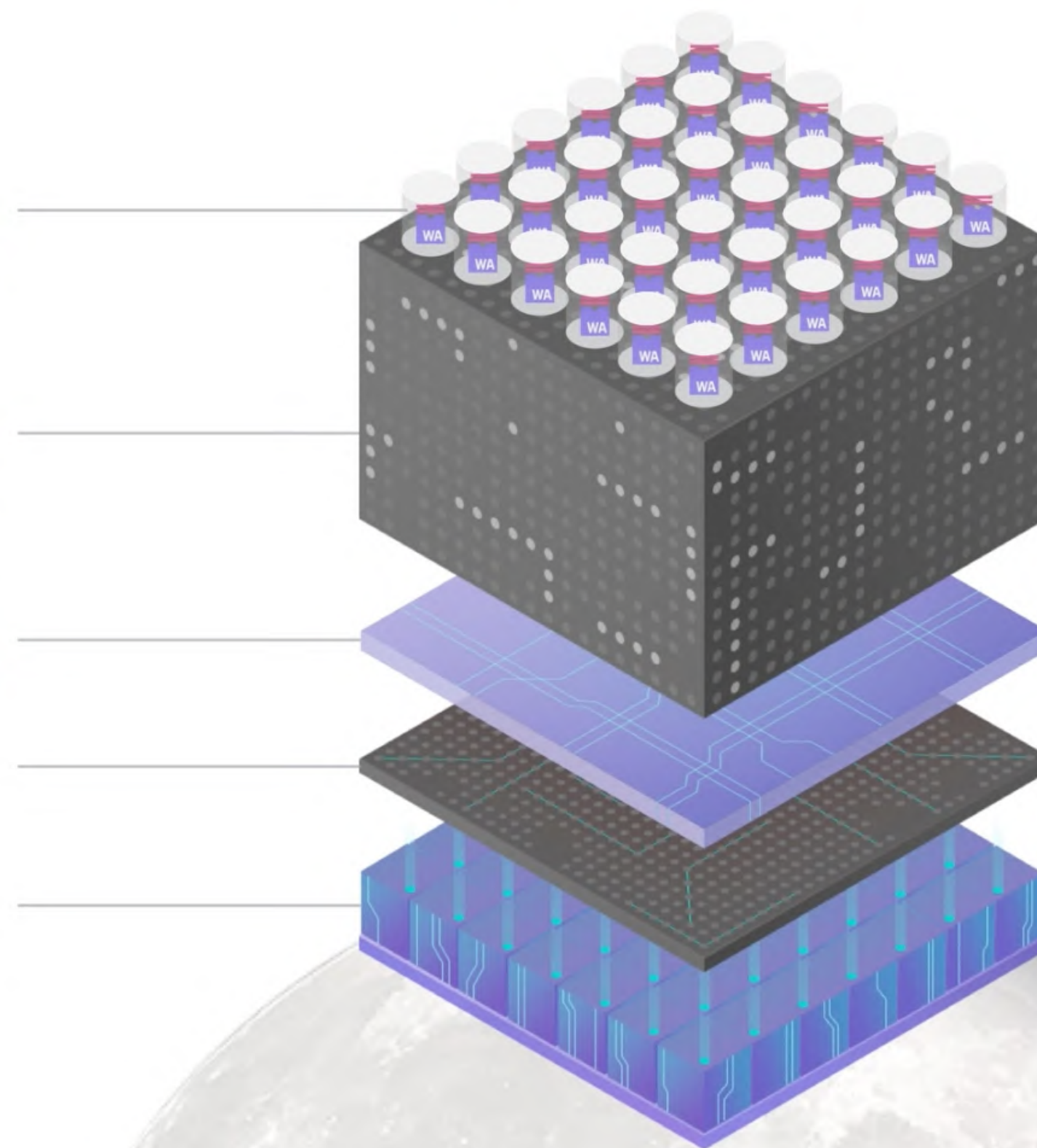
1.25+ Billion

BLOCKS PROCESSED

THE Internet Computer

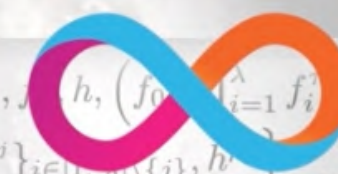


- canister smart contracts
[hosted blockchain code]
- Internet Computer
[general purpose blockchain]
- Internet Computer Protocol
- Internet: UDP/IP, TCP/IP
- node machines
[publicly owned special hardware]



Pitch

$$dk_{\tau_1, \dots, \tau_\ell} \left(\tau_1 \dots \tau_\ell, a \cdot g_1^\delta, b \cdot d_\ell^{\tau_\ell} \cdot (f_0 \prod_{i=1}^{\ell} f_i^{\tau_i})^\delta, d_{\ell+1} \cdot f_{\ell+1}^\delta, \dots, d_\lambda \cdot f_\lambda^\delta, e \cdot h^\delta \right) \quad s' = \sum_{j \in J} L_{j\ell}^J(0) s'_{j\ell} = \sum_{j \in J} L_{j\ell}^J(0) \left(\sum_{i_k \in I} L_{i_k}^I(0) s_{i_k, j\ell} \right) = \left(\tau_1 \dots \tau_\ell, g_1^{\rho+\delta}, g_2^x (f_0 \prod_{i=1}^{\ell} f_i^{\tau_i})^{\rho+\delta}, f_{\ell+1}^{\rho+\delta}, \dots, f_\lambda^{\rho+\delta}, h^{\rho+\delta} \right) \quad \text{Return } \mathcal{A} \left(c_b, \tau_1, \dots, \tau_\lambda, g_1^x, g_1^r, g_1^s, f_0, \dots, f_\lambda, h, \left(f_0 \prod_{i=1}^{\lambda} f_i^{\tau_i} \right)^\delta, \left\{ g_1^{\rho_j}, g_2^x \left(f_0 \cdot f_j^{1-\tau_j} \right)^{\rho_j}, \{ f_i^{\rho_j} \}_{i \in [1.. \lambda] \setminus \{j\}}, h^{\rho_j} \right\}_{j \in [1.. \lambda]} \right)$$



WHY BUILD ON THE INTERNET COMPUTER?

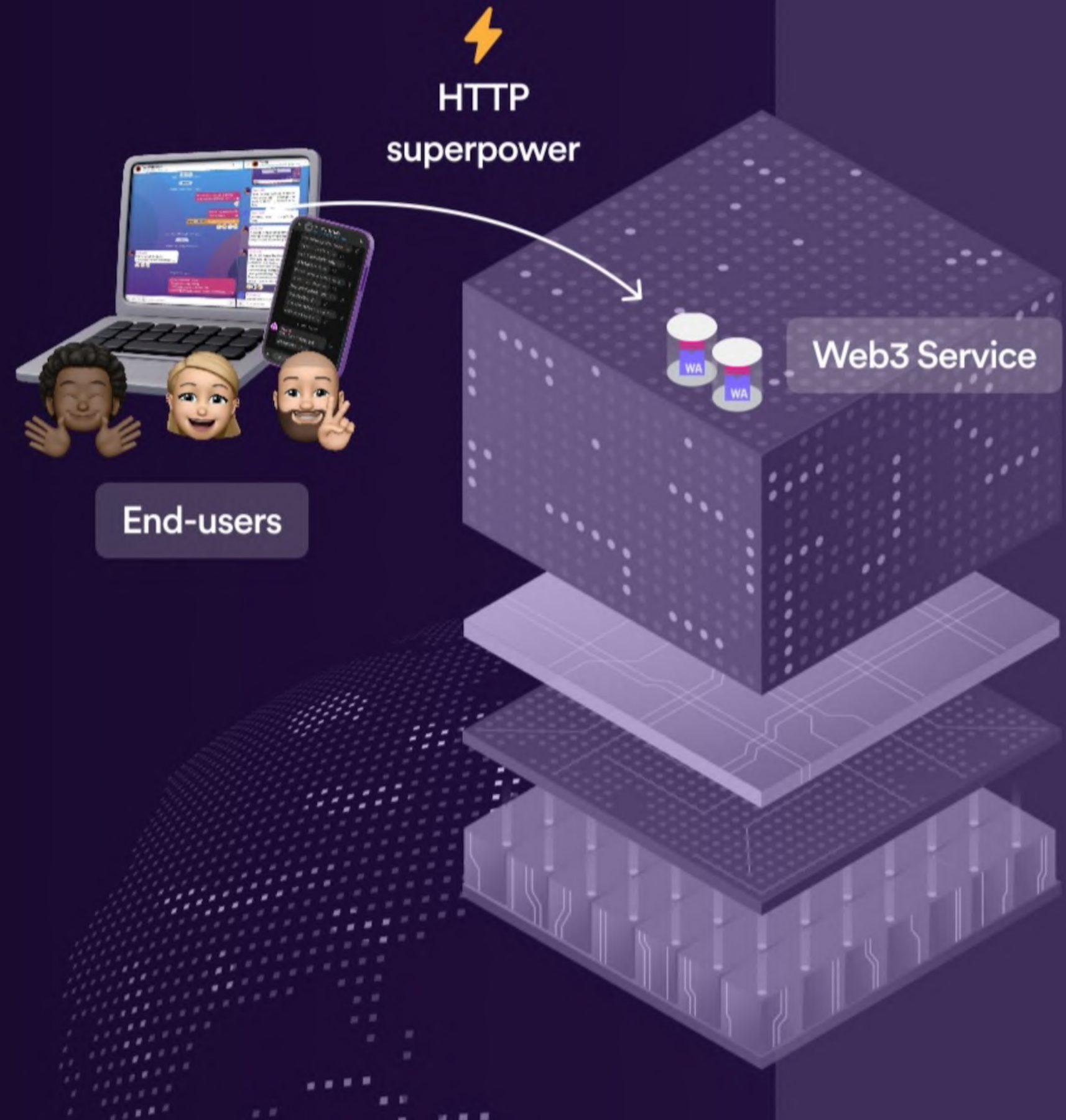


Processing

HTTP

Web3 services and dapps can be built from smart contracts that can serve interactive user experiences directly into the web browsers of end users. Using ICP, there is no need for centralized tech to serve web experiences to users. Big Tech's app stores are also not needed. Web3 services can be fully decentralized

END-TO-END WEB3



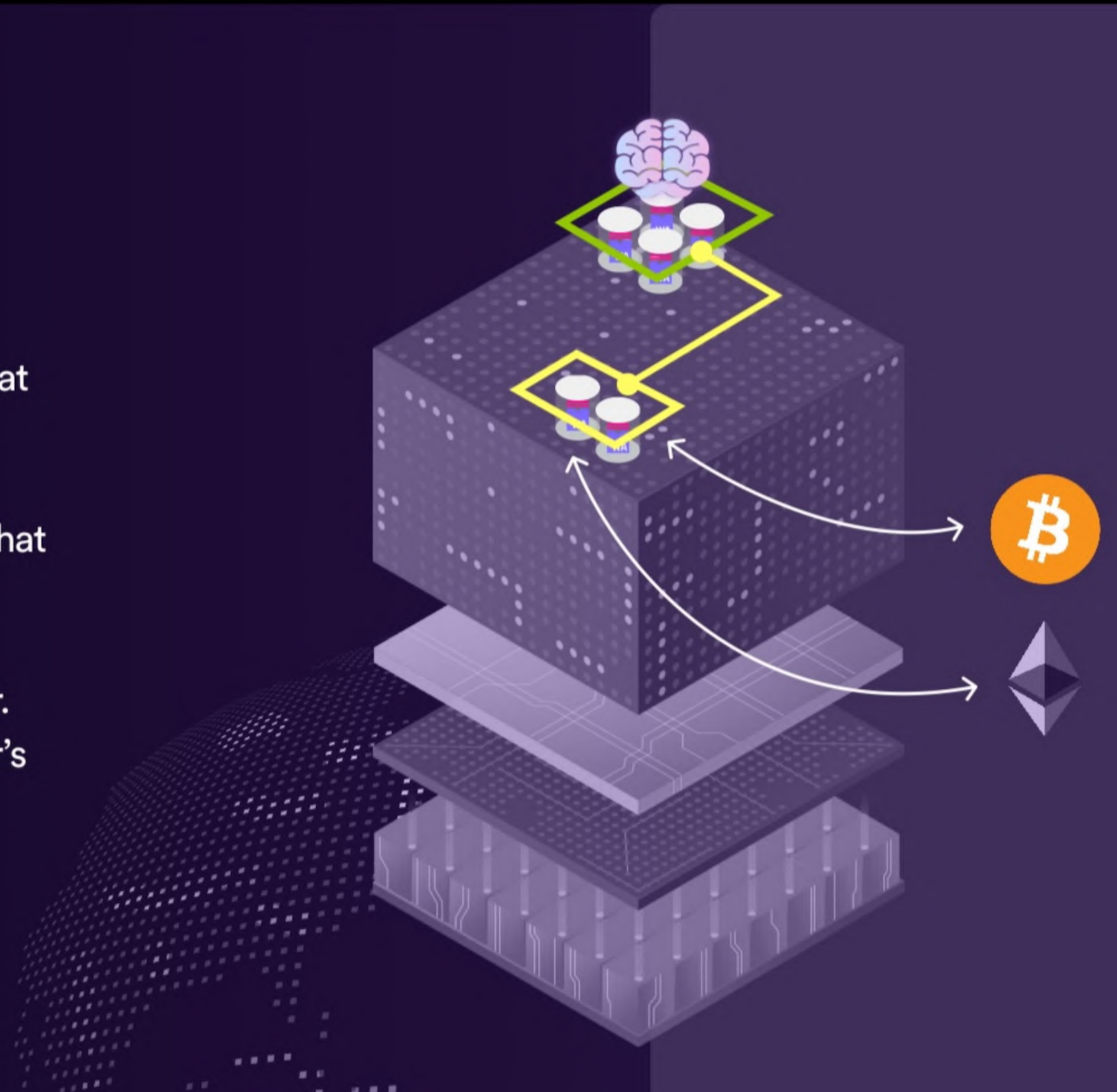
Chain-key TX

ICP smart contracts can create signed transactions that run on other blockchains.

Behind the scenes is pure cryptography, not bridges that are insecure and slow.

The Internet Computer can glue blockchains together. Dapps on other chains can use the Internet Computer's capabilities.

MULTI-CHAIN WITHOUT TRUST



Cost of 1GB Smart Contract Data



Ethereum **\$79,000,000**

<https://proderivatives.com/blog/2019/5/10/minimizing-data-storage-cost-on-the-ethereum-network>



Solana **3,480 SOL**

<https://docs.solana.com/developing/programming-model/accounts>


























Internet Computer **\$5.20** (paid in “cycles”)

<https://internetcomputer.org/docs/current/developer-docs/deploy/computation-and-storage-costs/>

1000s of developers are now building on the Internet Computer

JOIN THE MOVEMENT

Web2	→	Web3
 Medium	→	 nuance°
 reddit	→	 DSCVR
 GoDaddy™	→	 ICNS  ICNAMING
 Spotify®	→	 CANISTORE
 YouTube	→	 DSocial
 Dropbox	→	 IC Drive
 WhatsApp  Telegram	→	 OpenChat
 LinkedIn  Twitter	→	 distrikt
 KICKSTARTER	→	 CrowdFund NFT
 Gmail	→	 MAIL

An authentic early crypto project

- Dfinity runs the largest team of cryptographers in tech
- It was founded in 2016 to continue World computer research by 2015
- Largest employer of Google research staffs
- Research centers in Zurich + San Fransisco

1600+

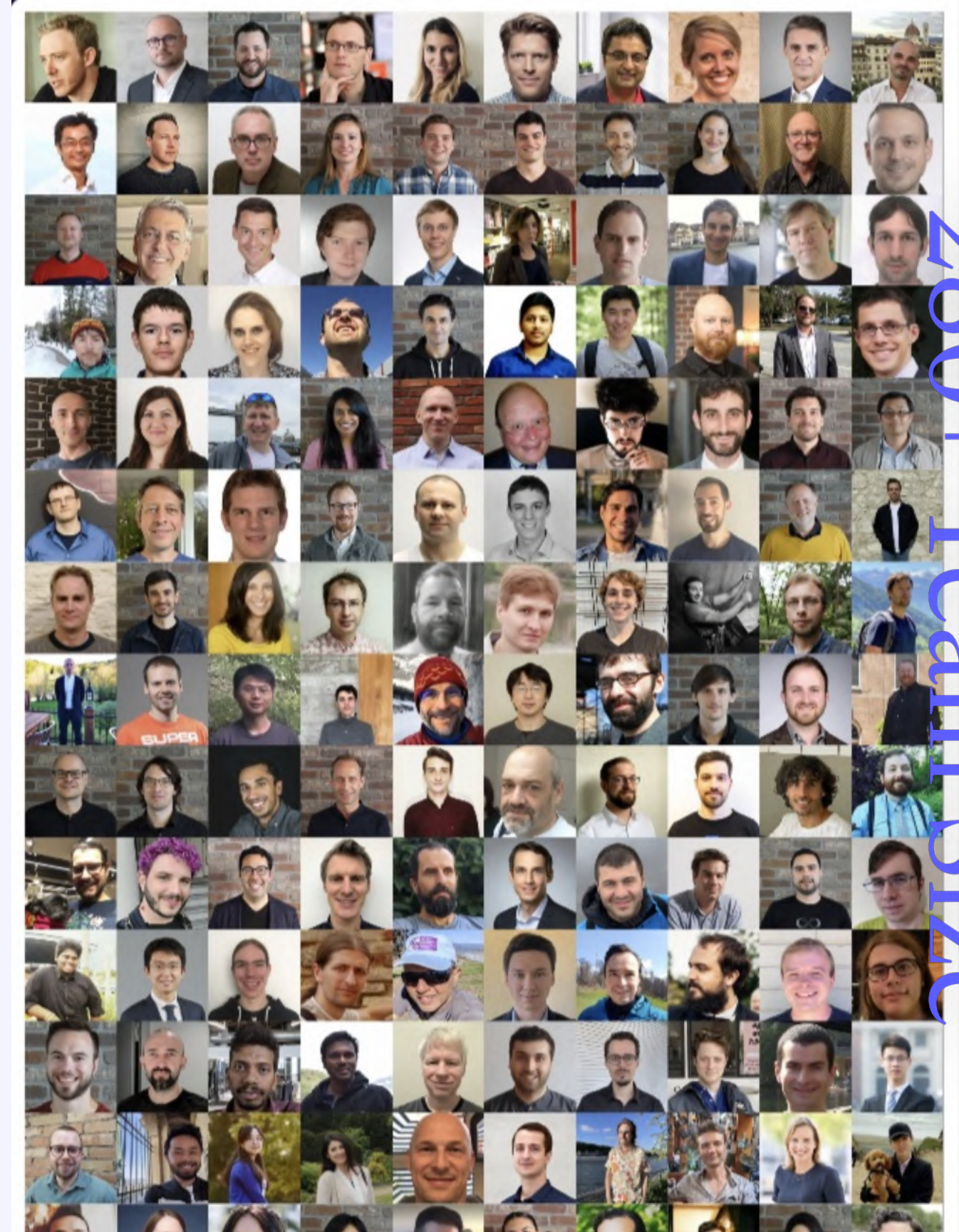
RESEARCH PAPERS

100,000+

ACADEMIC CITATIONS

250+

TECHNICAL PATENTS



Supporting Builders Globally including
the Middle East and Africa with:

\$200,000,000

Developer Grants

Community Grants

dfinity.org/grants

Learn more at:
internetcomputer.org

Web serving Smart contracts process http requests & serve interactive web direct to users	Emit less CO₂ Systems and services running on-chain can be more efficient than traditional IT	Limitless scaling Scale mass-market web3 services 100% on-chain (no cloud or servers needed)
Internet Identity Web3 sign-on via WebAuthn: fingerprint sensor, Face ID, etc	Web3 orchestration Smart contracts sign TXs that run on other blockchains (chain key crypto)	Reverse gas model Smart contracts pay for their own compute so users can just interact
HTTPS outcalls Smart contracts can connect to outside world through http via consensus	Breakthrough speed Pre-finalized query TX <200ms, and update TX in <2s	WebAssembly Use any lang that compiles to the VM of the future: Motoko, Rust, C, etc
Rapid evolution A governance DAO upgrades and configures the blockchain's nodes daily	100% sovereign Internet Computer nodes are dedicated "node machines" (no cloud instances)	Bitcoin liquidity Smart contracts directly send and receive bitcoin, no bridges, just crypto
Multi-block TXs Smart contract calls (TXs) can be long-running and span multiple blocks	Daemon contracts Smart contracts can be invoked by the network and run automatically	Parallelism "Actor" smart contracts run in parallel, unlocking scaling & solving reentrancy