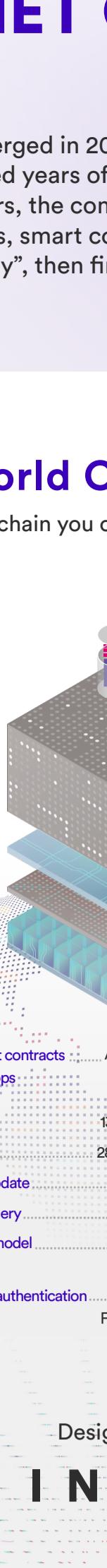


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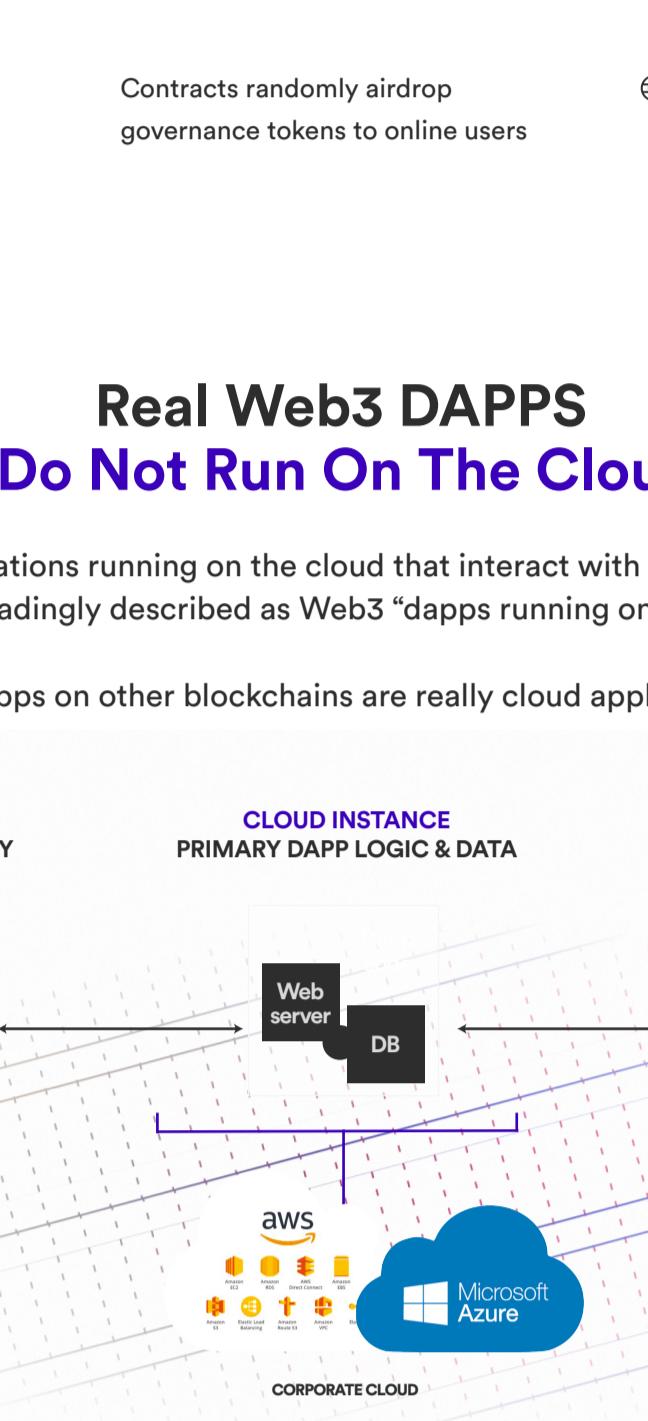
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INTERNET COMPUTER

A beautiful dream emerged in 2014. One team set itself to realizing that dream. It required years of R&D, a world-renowned team of scientists and engineers, the complete reimagining of blockchain architecture, consensus, smart contracts and development of "chain key cryptography", then finally, in May 2021, the first...

World Computer

A blockchain you can build *anything* on



An infinite public technology platform and a complete stack in cypherspace...

Purpose	World Computer
Blockchain type	Public/permissionless
Consensus	Chain Key Crypto
Primary token	cycles ("gas" + DeFi) ICP
Genesis	10th May 2021
Blocks (4th Dec 2021)	469,215,710 ICP
Blocks/s	375 million+
Blocks/s	29s (potentially infinite)

Gas model	Reverse gas
TX update	2 seconds
TX query	millisecond latency
User authentication	Internet Identity

Governance	Network Nervous System
Network nodes	Custom hardware
Cloud nodes	0% (sovereign network)
Users need tokens	No

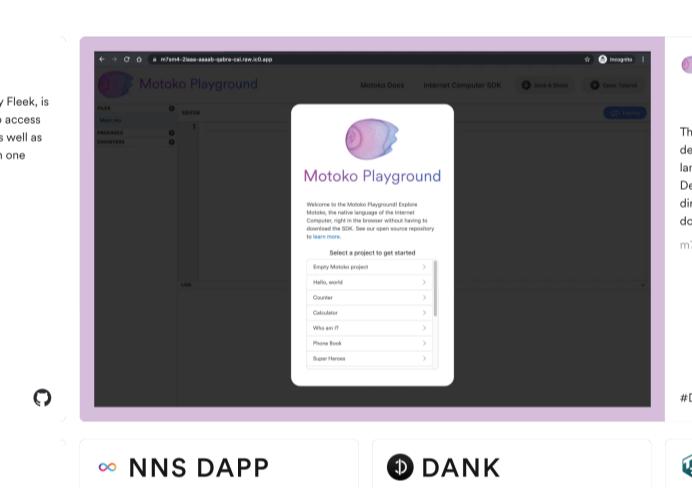
Web serving	Yes
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Designed to

S C A L E I N F I N I T E L Y

TRANSACTION FINALITY	ON-CHAIN SMART CONTRACT COSTS
Update 2 seconds	Data ~\$5/GB/year
Query Milliseconds	Contract call ~0.00000001c

How Advanced Crypto Changes The Game



Smart Contracts serve web/HTTP	x	x	✓
Interaction without tokens	x	x	✓
Infinite scaling	x	x	✓
Blockchain nodes in cloud			0%
Cost of storing 1GB of data on a blockchain	△ \$350,000,000	△ \$800,000	~\$5 GB/year

1 GB of data =	300 Phone photos 17 mins Phone video	1 / 350 th History of all Bitcoin transactions 1 / 4,000,000 th Facebook's daily new data
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fast growing	75,000+ users	Internet Computer ecosystem dapp beta	True Web3
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Built entirely using smart contracts that serve web directly to users	Messages can include media, and cryptocurrency and NFTs...	Runs as a blockchain extension for maximum decentralization
Smart contracts store messages, photos & video on-chain	Community owned and governed via a DAO and tokens	Total censorship resistance
Chat dapp is also a crypto wallet providing SocialFi functionality	Contracts randomly airdrop governance tokens to online users	https://oc.app

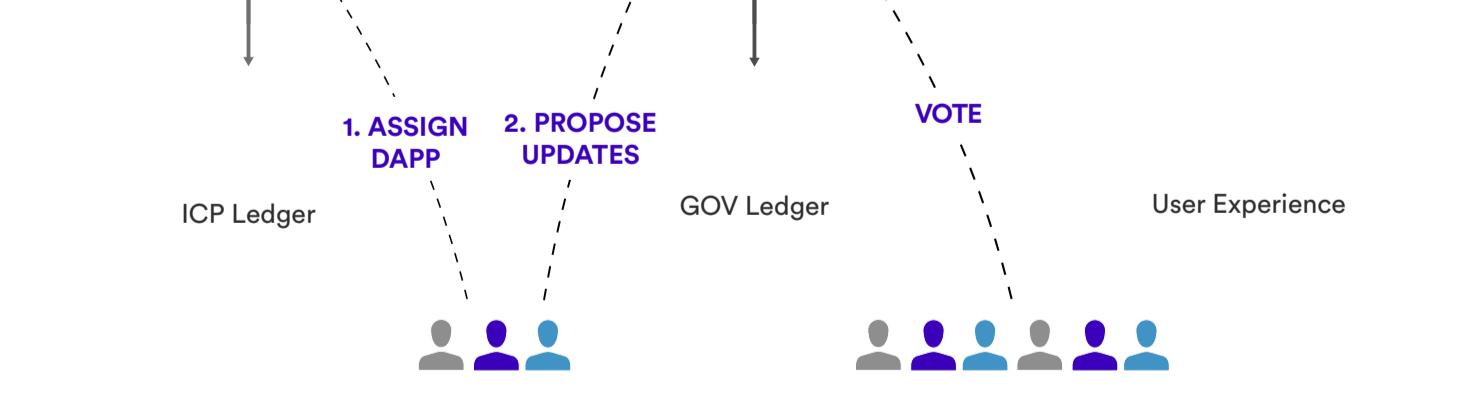
GOOGLE CAN STOP ALL DAPPS	CLOUD CAN BAN ALL DAPPS
The wallet is a browser extension that is downloaded from Google's Chrome Web Store. In 2018, they banned MetaMask for a while, preventing new downloads. Google can also insert malicious code to steal the cryptocurrency.	Without the cloud, dapps stop working, and their data is lost (for example, NFT content is stored on the cloud). In early 2021, AWS banned the Parler social media service, causing it to go offline. They can also insert malicious code.

USERS MUST ACQUIRE TOKENS TO INTERACT MEANINGFULLY	DEVELOPERS BECOME LEGALLY LIABLE BECAUSE IT'S NOT REALLY DECENTRALIZED
User interactions involving smart contracts on the blockchain, even, for example, to store a simple username, require a browser wallet loaded with the crypto currency. The wallet must be downloaded from the Chrome Web Store and the cryptocurrency purchased and installed in advance. This creates a barrier to entry that slows down user adoption and growth.	When dapps process tokens, if they are not truly decentralized, then regulatory considerations become an issue. This often forces their developers to self-censor. For example, in the summer of 2021, Uniswap, a major "decentralized exchange", delisted more than 100 tokens. Although their smart contract code was controlled by governance tokens, naturally their website and much of the processing really ran on the cloud, and naturally these centralized services were paid for by the developers, making them liable, resulting in them self-censoring to avoid legal issues.

THE ARCHITECTURE IS INSECURE AND DISASTERS ARE ACCELERATING	USERS ARE NOT ANONYMOUS AND CAN BE TRACKED
Whereas blockchains host tamperproof code, which does not need to be protected by a firewall, the same cannot be said for cloud servers, and private server computers. If a hacker gains access to these traditional IT systems, they can modify how they serve user interface code into the user's web browser, in such a way that they can steal all their tokens. In the winter of 2021, hackers gained access to the IT systems of BadgerDAO, and inserted malicious code into the user interface that stole \$120m worth of bitcoin and ether cryptocurrency from its users.	Each interaction the user has with the blockchain involves their wallet key, which means that they can be tracked across the different dapps that they use. This is a privacy and security concern.

The internet computer blockchain solves these problems by supporting real web3 — convenient for users, secure, unstoppable and censorship resistant

Only the Internet Computer makes it possible to build anything end-to-end on a blockchain



December 2021, 7 months since genesis...

1000+ Developers Building



Smart contracts are the building blocks of the future

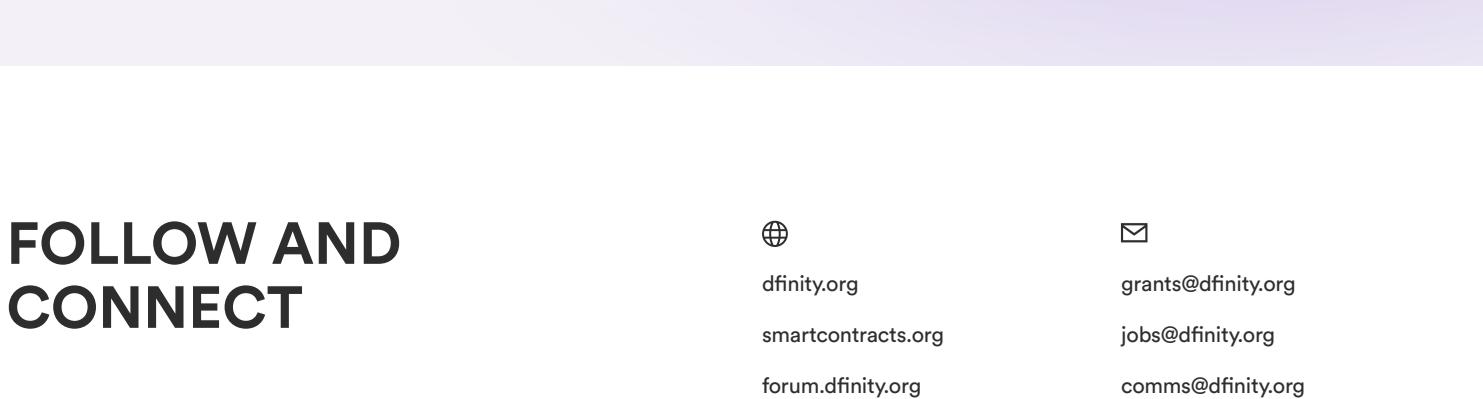


The lower the cost of a blockchain, the more environmentally friendly

The Internet Computer's advanced architecture and cryptography runs smart contract software with breakthrough levels of efficiency. Systems built 100% on the Internet Computer run with efficiency comparable to the traditional IT stack, providing massive savings in costs and protecting the environment

Blockchain Singularity

Smart contracts are the building blocks of the future



Public means builders are no longer captive customers

Tamperproof means systems and services don't need a firewall

Unstoppable like the internet means systems are always ticking

Composable means running services can be assembled like software

Autonomous means services without owners or control via community DAOs

Tokenization means that logic can process value just like data

Canister smart contract

Memory pages

WebAssembly bytecode

Popular languages

Motoko was developed for the Internet Computer environment. Designed by a DFINITY team led by the co-creator of WebAssembly

The lower the cost of a blockchain, the more environmentally friendly

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Revolutionary Smart Contracts Serve WEB/HTTPS

User devices

HTTPS

Canister Smart Contracts

Fundamentals

Users

Smart Contracts

Blockchain

Cloud

Network

Cloud

Cloud