HOLOCHAIN

WTF is it?

2008 saw both a breakdown of trust with the collapse of sprawling financial markets, and the birth of a new model for trust with **Blockchains**, and **Cryptocurrencies**.

The innovators, and change makers of this world got excited about the new possibilities to organise collectively, and exchange value.

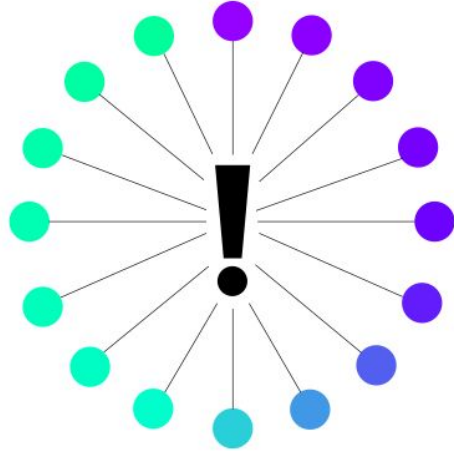Banking without banks, borrowing without loans, funding without equity…

What the story leaves out is that blockchain cannot deliver on its promises of a decentralised world.

Holochain is the post-blockchain technology that will.

Holochain eliminates bottlenecks that make blockchains unfit to build the decentralized world we want.
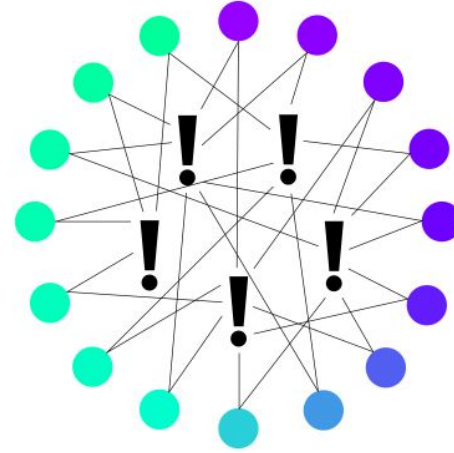
TRADITIONAL BLOCKCHAIN

Centralized network-wide consensus validation

99.99% of data created is discarded

Network MUST update in unison, creating a supercomputer that can only process one perspective
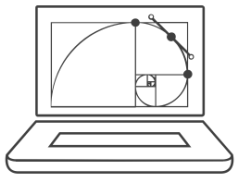
Trust is network-wide or bust

HOLOCHAIN

Distributed network for individualized validation

All data is held, and is considered valuable

Network updates in parallel instead of in unison

Trust generated on an individual basis

Holochain is less volatile than a traditional blockchain because the architecture is:
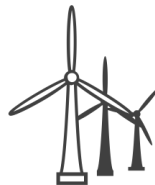
SCALABLE

- Network efficiency increases parallel to scale

- Incentive driven network capacity

- Virtuous feedback loops keep capacity in step with demand

SECURE

- Distributed architecture

- No centralized points of failure

- Larger and more complex attack surfaces

ENERGY EFFICIENT

- No consensus means no expensive hardware needed for validation

- No outrageous power costs to run the equipment

- Lightweight enough to run on mobile phones and IoT devices

COST EFFECTIVE

- Cheap transactions: What costs $10,000 on Ethereum costs $1 on Holochain

- Cheap development: No smart contract developer scarcity: just javascript and GoLang

- Cheap hosting: distributed hosting gets cheaper as the network grows

- Own your data, control who has access to it and when

- Lets the crowd put itself in the cloud

- New types of applications with more flexibility of use and interaction

- Fast microtransactions that can handle credit card-scale payment processing

- Adaptable solutions from distributed P2P networks to robust localized systems

- Interoperability of Apps, freedom of association and connection

THIS IS A SPOT TO TALK ABOUT ENABLING HOLO

- Clutter - a distributed version of Twitter
- Holo Chat - Multi-room P2P chat (like a distributed Slack)
- FractalWiki - a Hierarchical wiki
- Cointoss - an app for trustable random initiation

Emerging Applications

IoT

- Smart Homes
- Wearables
- Smart Grid
- Smart City
- Smart Supply Chain

ARTIFICIAL INTELLIGENCE

- Financial Management
- Robotic Automation
- Customer Service
- Data Analytics
- Medical Applications

QUANTUM COMPUTING

- Integer Factorization
- Quantum Cryptography
- Molecular Modeling
- Protein Folding
- Genomics Research

BIOTECHNOLOGY

- Genomics Research
- Agriculture Applications
- Bioenergy Providers
- Bioinformatics
- Chemical Engineering

Example Emerging Applications

- A rideshare app run by riders and drivers, without a monopoly in the middle dictating terms. Holo hosts would get paid for helping host a website where anyone can book a ride.

- An Emergency Response app to coordinate in the aftermath of a disaster, without needing a connection to a Silicon Valley data center. Unlike today's centralized applications, apps on Holo run just fine on a local network, or an on-the-fly mesh deployment.

- A community of rural homeowners who generate, store, and share electricity using solar panels, windmills, small water turbines, and backup batteries. Holochain is designed to handle exactly these sorts of micro-transactions.

Arthur Brock
Cofounder

Eric Harris-Braun
Cofounder

Matthew Schutte
Director of Communications

Holochain has a distributed multinational team of X people operating in X countries. With backgrounds from X, to X, to X, the organization is designed for resilience not only from a technology standpoint but from a human standpoint. It is designed to be a return on principles, not just a return on investment.

The future belongs to those who create a **distributed**, **equitable**, and **regenerative economy**.
Rejecting volatility and supplanting scarcity through deep wealth.

Dive Deeper and Get Involved in Holochain Today
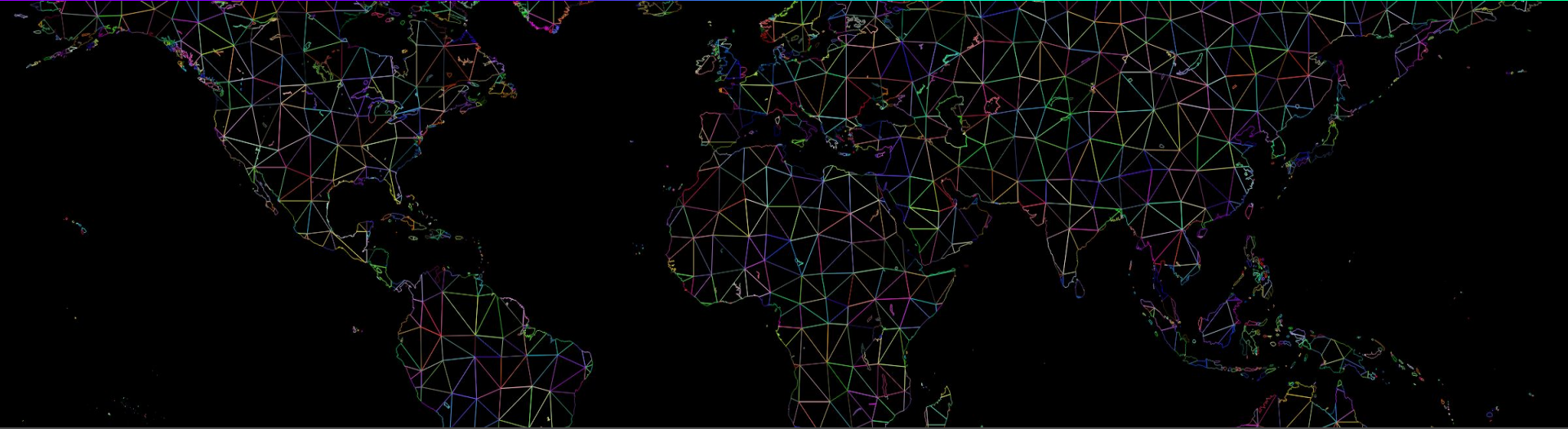
Holo.Host - Whitelisting/ICO info & Technical Papers

Indiegogo - HoloPort hosting boxes & personal developer training

Holochain Chat - Connect with developers and share ideas

Holochain.org - Upcoming global hackathons and other news