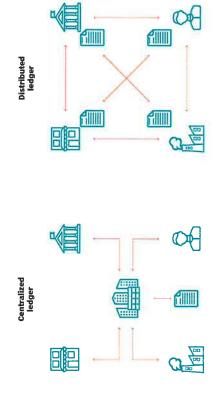
SIMPLIFYING CRYPTO PROJE(

An (Oversimplified) Introduction to Key Concepts

THE MAIN CONCEPT

Distributed ledger technology



- Crypto projects are fundamentally just databases (ledgers).
- The big deal is that the databases are distributed...
- ...and read/write access (authentication) is controlled by algorithm...
- ...over a network of computers (nodes).

WHY IT MATTERS

The (observable) algorithms replace a "trusted manager"

This allows individuals to share access to information..

...even though they may not trust each other...

...but still trust that the information is accurate.

WHY THAT'S USEFUL & WHEN IT'S NOT



- Cartels need to cooperate while competing
- Groups of individuals want to share some parts of a dataset, while keeping others private
- Groups of individuals can't trust a single arbiter of information



- Everybody trusts the database manager
- Speed and efficiency of access are top priorities
- There is one proprietary "owner" of the information

THE KILLER APP IS MONEY, BUT



THERE ARE MORE NON-MONEY USES



MANY TYPES OF DISTRIBUTED LEGDERS

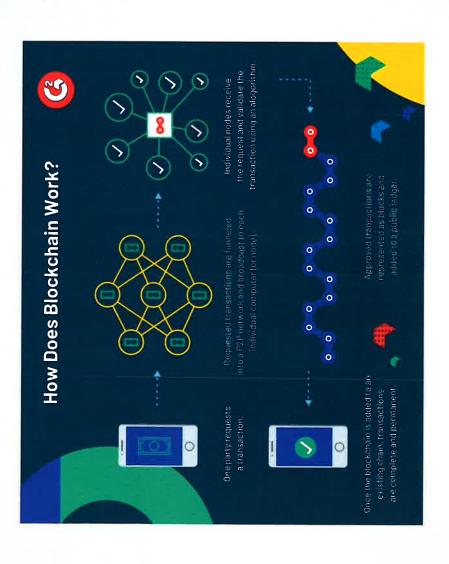
Blockchains

Directed Acyclic Graphs (DAGs)

Holochains

Hashgraphs

BLOCKCHAINS ARE THE MOST POPULAR



THE "CRYPTO" PART

- Public/Private Key Cryptography secures the data, and
- Cryptographic Trapdoor (Hash) Functions compress data, allow for data verification, and level the computing playing field....
- ...which allow the algorithms to replace a "trusted manager" by...
- ...creating "proof" conditions for network computers (nodes).

PROVE WORK OR PROVE HOLDINGS

Proof of Work (POW)

- Amount of work determines read/write privilege
- Game theory conditions incentivize a higher level of network security
- Resource/energy intensive

Proof of Stake (POS)

- Amount of holdings
- determines read/write privilege
- Low resource/energy usage
- The "rich" have greater defacto network control

POW-VS-POS

POW is generally better for monetary applications

POS is generally better for non-monetary applications

Differential energy rate charging will incentivize POS algorithms

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