

The background features a dark, abstract scene with a glowing sphere on the left and a network of interconnected hexagons and lines on the right. The hexagons are white and some are highlighted with a blue glow. The overall aesthetic is futuristic and technological.

# Application of Blockchain In Crowdsourcing Data

By Ignas Galvelis

# Problems in data sourcing

- We live in a rapidly changing world
- New data sources are coming online and evolving
- Some data sources are resistant to quantification



# Advantages of Crowdsourcing your data

- You are able to scale data collection
- You can discover new means to defeat data quantification resistance
- It can enable data analysis on a scale and depth that is not viable for a small organisation
- You can collect data from online and offline sources



# Differences between Centralised and Decentralised systems

## CENTRALISED SYSTEMS:

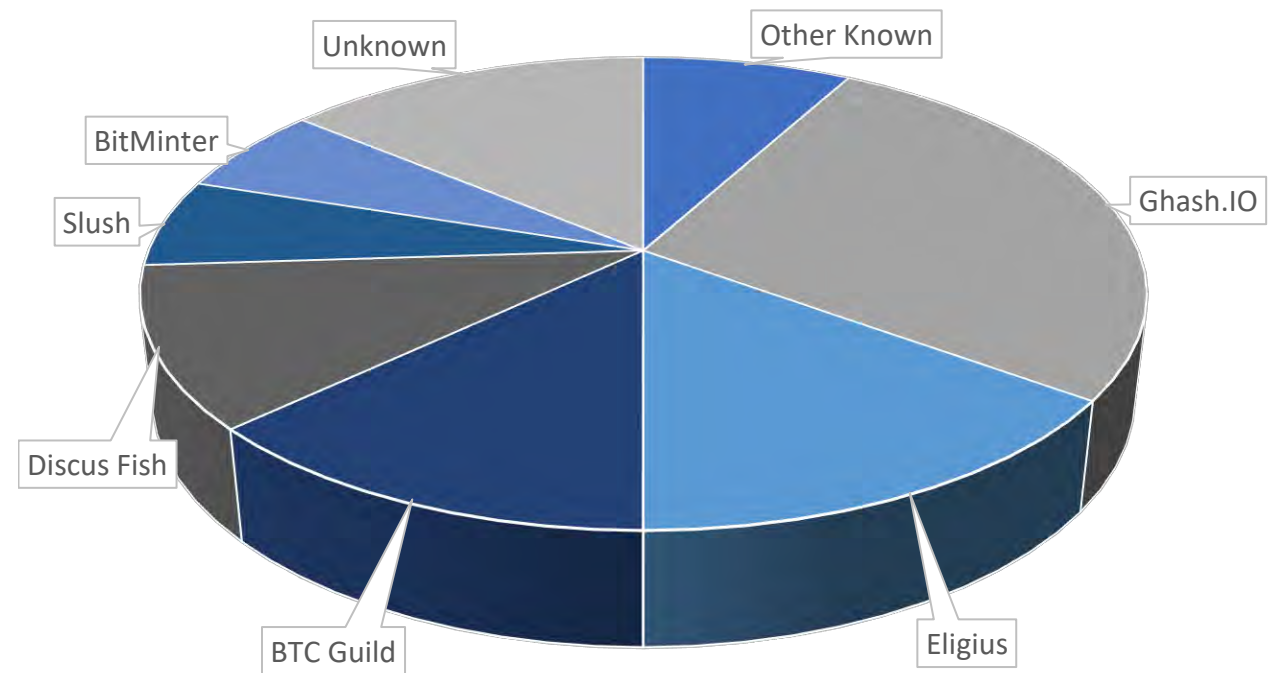
- ✓ Can be less complicated to build and control
- ✓ More opaque
- ✓ Less tolerant to attacks and can be less secure
- ✓ They can be less scalable and have a central point of failure

## DECENTRALISED SYSTEMS:

- ✓ Decentralised-based systems can be more stable and fault tolerant
- ✓ can be more secure
- ✓ all nodes are treated fairly
- ✓ it eliminates the need for intermediaries and is more transparent

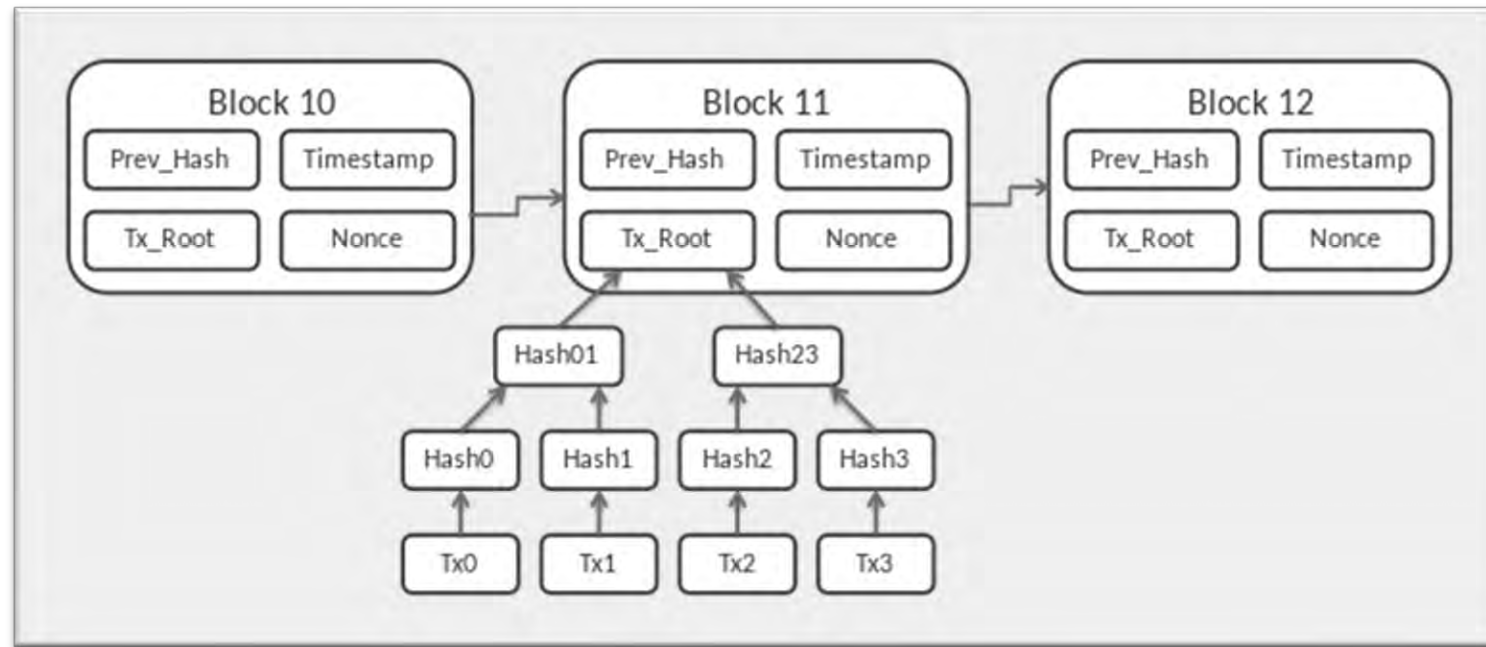
# How Decentralised is it?

- Nakamoto Coefficient — an attempt to quantify Decentralization
- Mining (by reward)
- Client (by codebase)
- Developers (by commit)
- Exchanges (by volume)
- Nodes (by count)
- Ownership (by addresses)
- Bitcoin: 7,349, Avalanche: 26, Solana: 19, Polygon: 2



Largest BTC Mining Pools

# What is blockchain?



# CONSENSUS

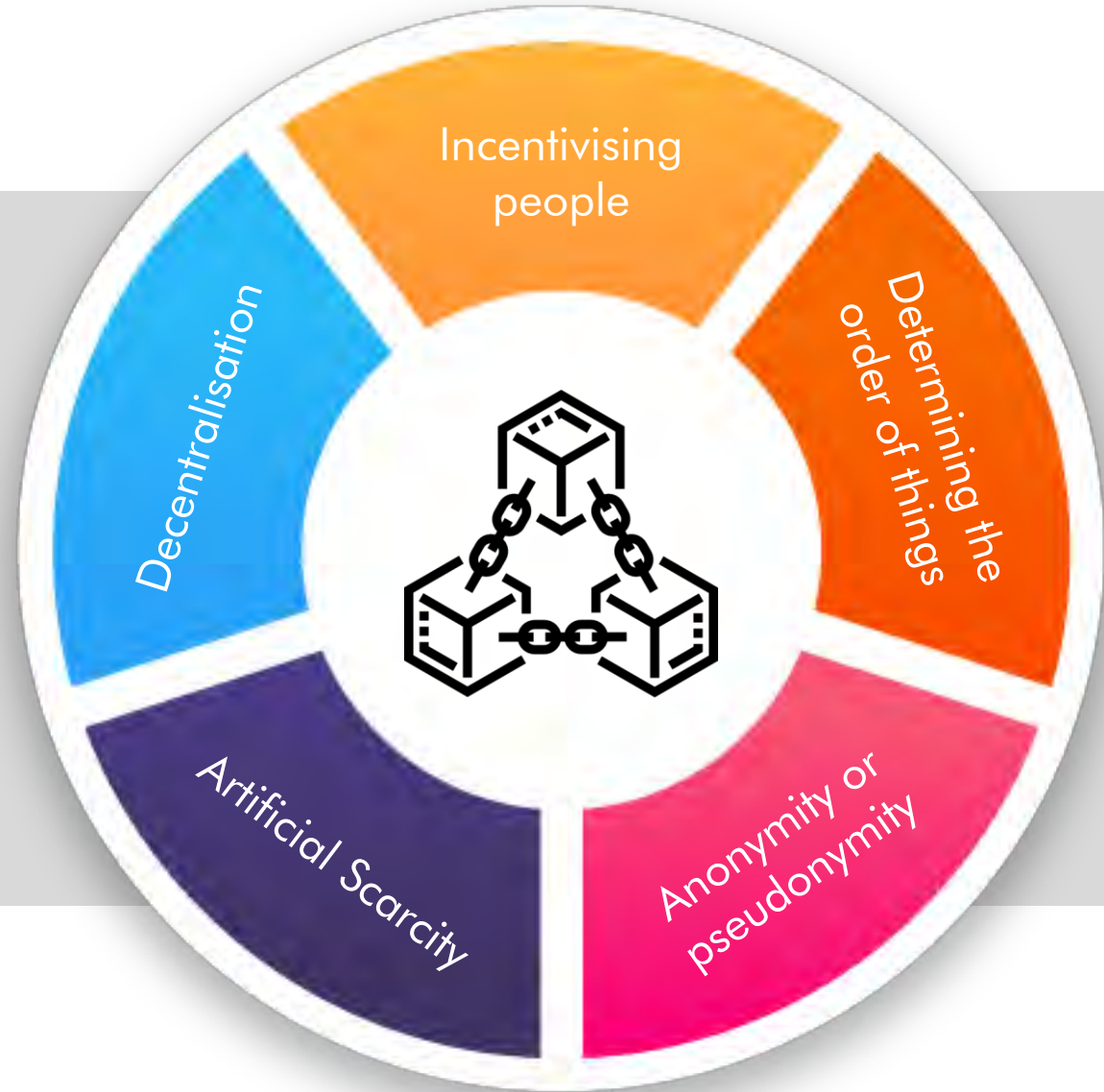
The background features a complex, abstract geometric design. It consists of several overlapping, glowing wireframe structures. One prominent structure is a large, dark blue cube-like shape with glowing cyan edges. Another is a smaller, yellow-gold wireframe cube. The background is a deep blue with scattered white dots and faint, glowing lines, suggesting a network or data space.

Longest Chain

Proof of Work

Proof of Stake

# WHAT IS BLOCKCHAIN GOOD AT







# WHAT IS BLOCKCHAIN LACKING AT

Storing large amounts of queryable data

Speed(Scale)/Consistency (Security)/Decentralisation

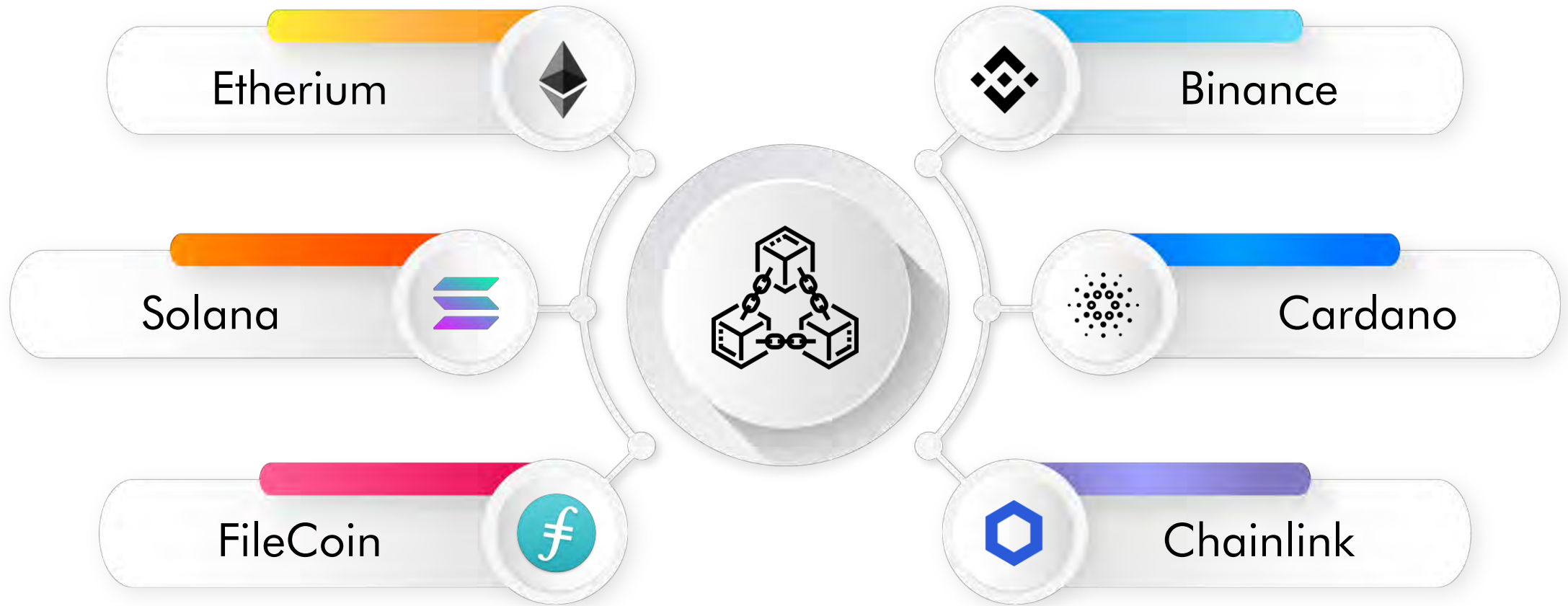
# APPLICATION TO CROWDSOURCING DATA

Incentivise people

Determine who owns what (i.e. piece of work)

On-chain governance (DAO)

# Choosing a blockchain





LEARN MORE

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[buildspace.com](https://buildspace.com)

[www.crowdflation.io](https://www.crowdflation.io)

# Thank you

