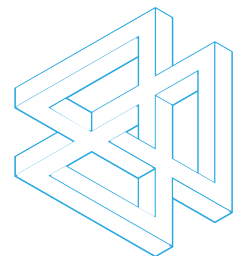
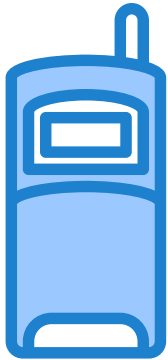



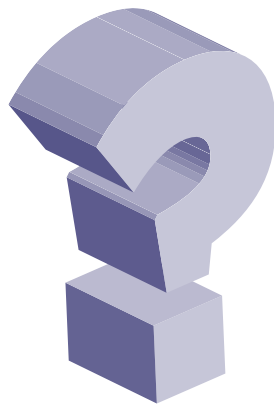


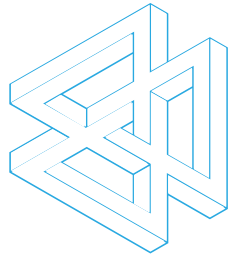


BLOCKCHAIN EVOLUTION

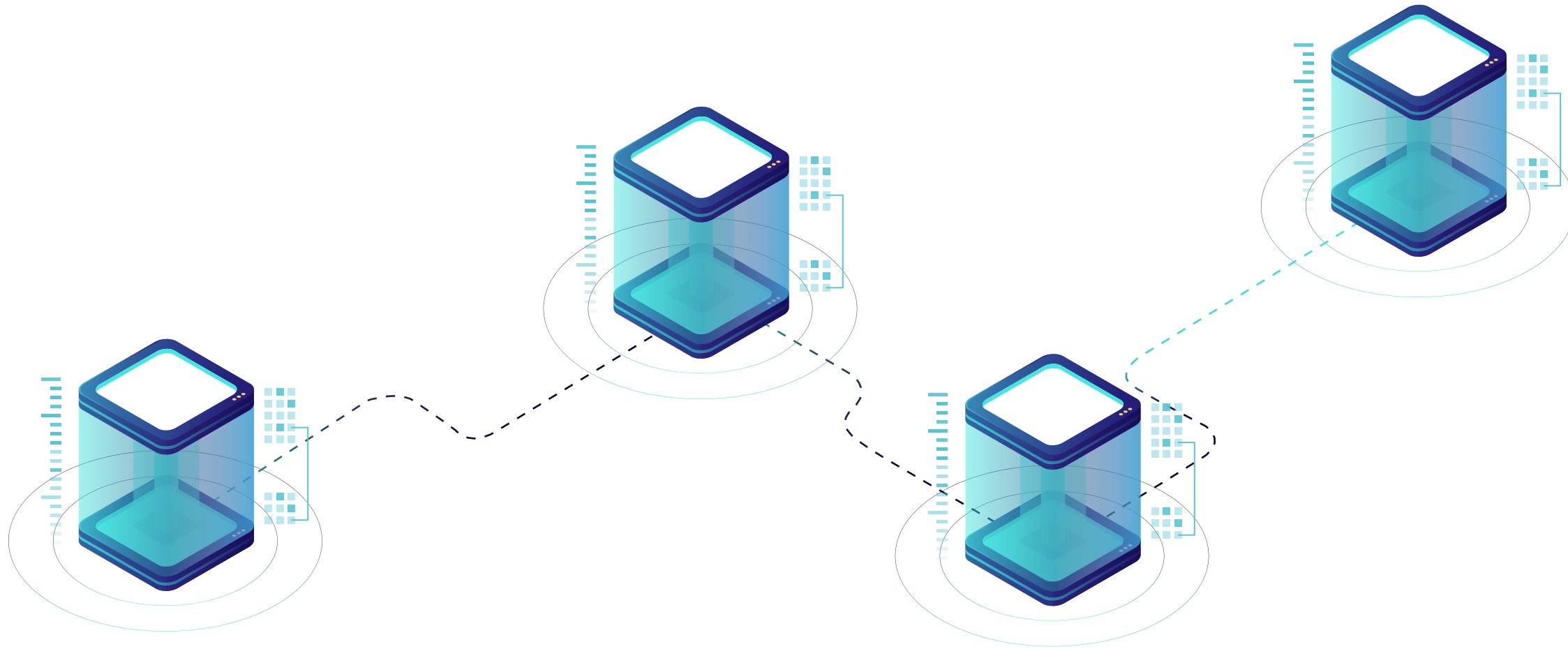


EVOLUTION OF MOBILE COMMUNICATION TECHNOLOGIES VS EVOLUTION OF BLOCKCHAIN

			
1G	2G	3G	4G
Foundation of Mobile Seamless Mobility	Mobile for the Masses More Voice Capacity	Mobile Broadband Data Optimized	Faster and Better Mobile Broadband More Data Capacity
2.4 kbps	64 kbps	2,000 kbps	100,000 kbps
			
Blockchain 1.0 Bitcoin & POW	Blockchain 2.0 Ethereum & Smart Contract	Blockchain 3.0 Alt Coin	Blockchain 4.0

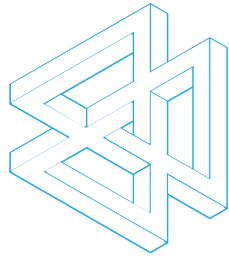


BLOCKCHAIN: THE SKELETON OF ORGANIZING DATA OF THE DECENTRALIZED NETWORK

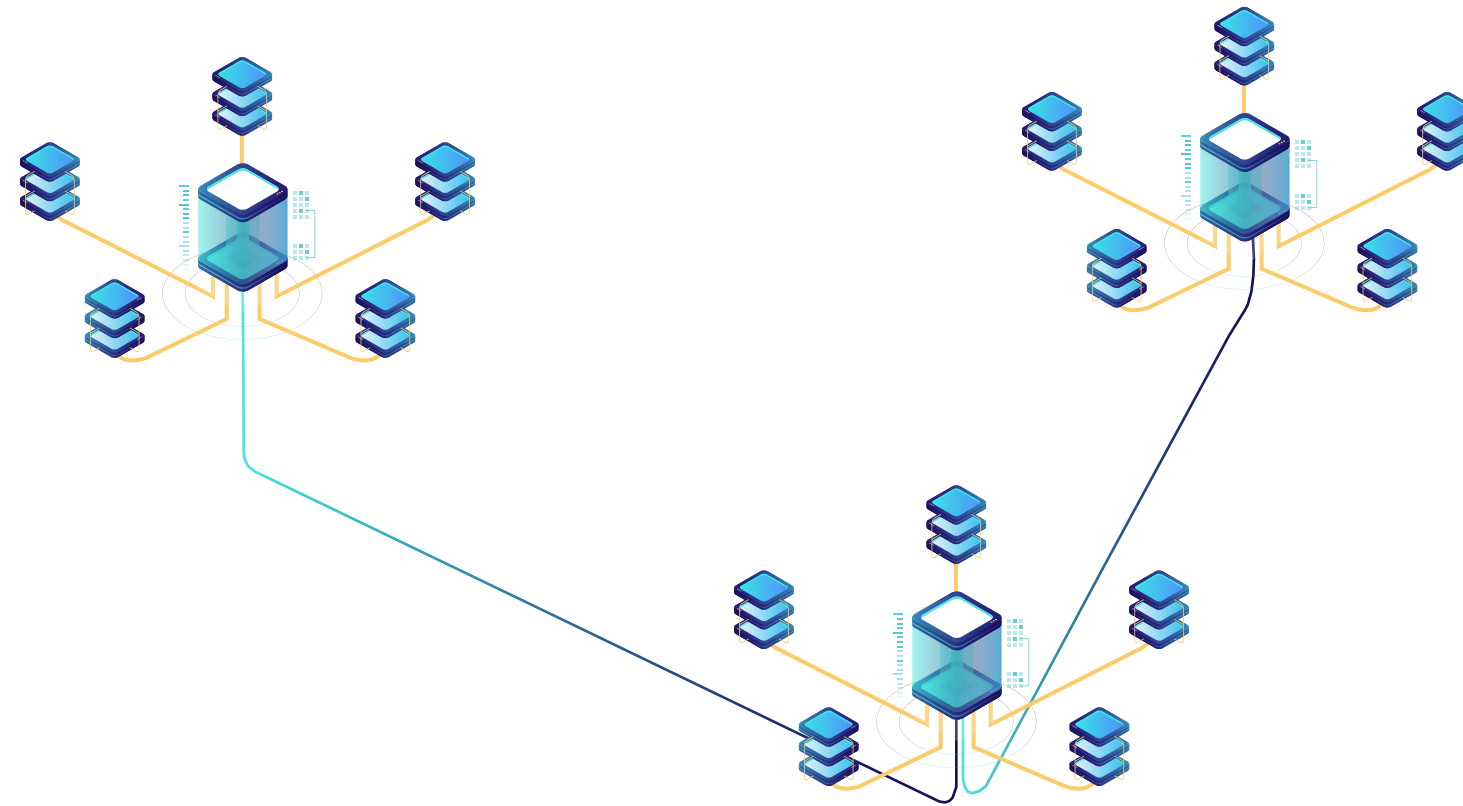


The blockchain technology

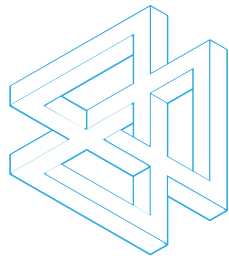
- It's a new way to organize the database.
- Can store everything that changes according to the network.
- All the data get arranged in a block like matter.



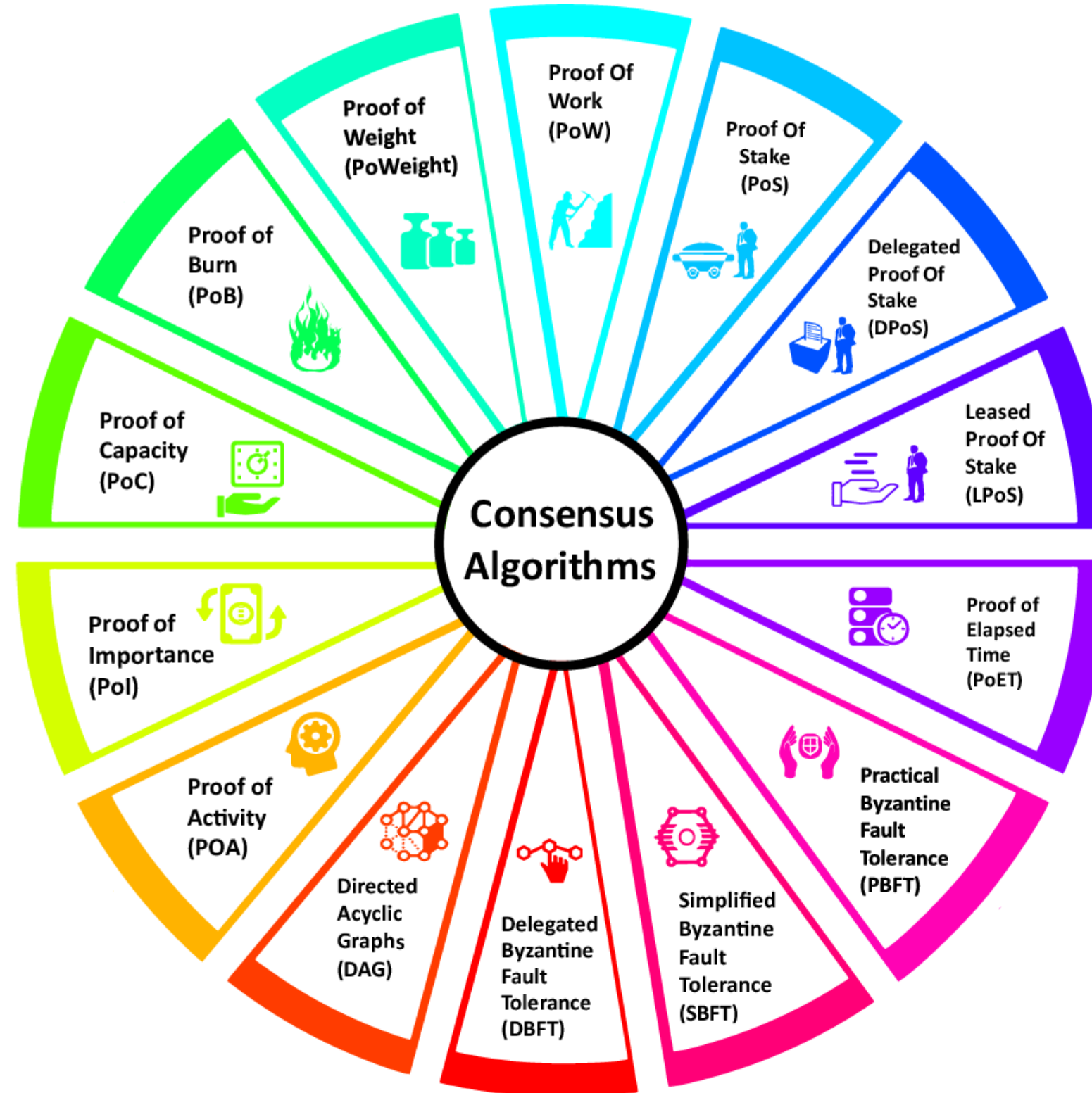
BLOCKCHAIN: THE SKELETON OF ORGANIZING DATA OF THE DECENTRALIZED NETWORK

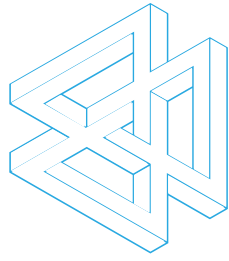


Won't see any decentralization in the blockchain itself.
Blockchain doesn't provide the decentralizing environment.
That's why we need consensus algorithms to make sure the
system & the network is fully decentralized.



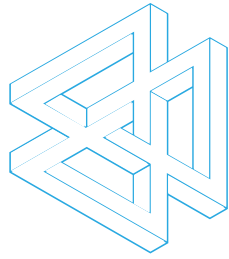
DIFFERENT TYPES OF BLOCKCHAIN CONSENSUS ALGORITHMS



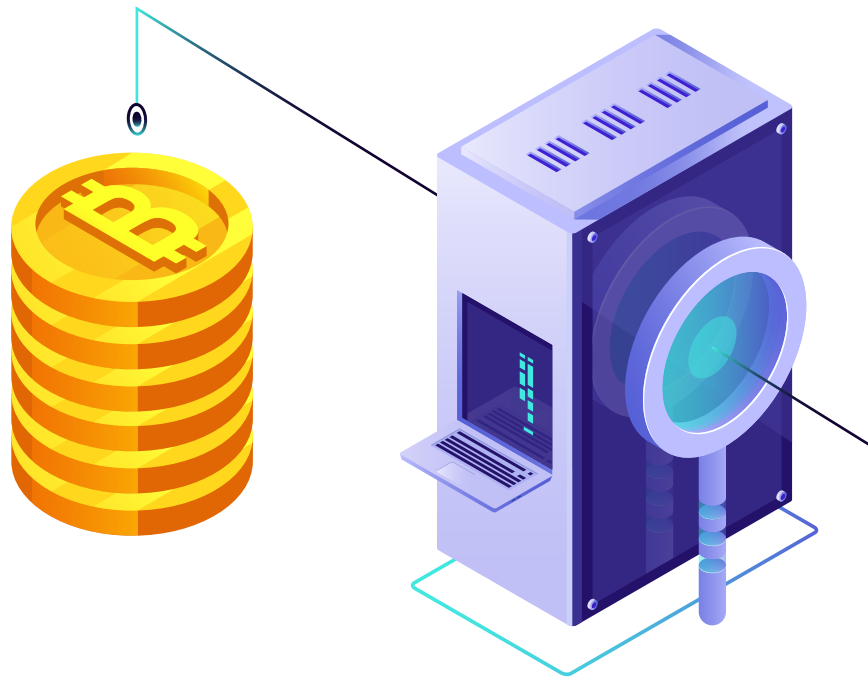


CONSENSUS MECHANISM 1.0 POW





CONSENSUS MECHANISM 1.0 POW



Pros

Security

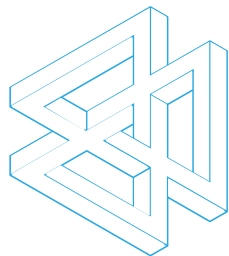
Decentralization Spirit



Cons

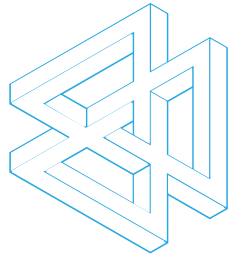
Slow

Massive energy consumption
Mining pools trigger centralization



CONSENSUS MECHANISM 2.0 POS





CONSENSUS MECHANISM 2.0 POS



Pros

- Speed: Provides faster transaction process compared to POW
- Efficiency: Consumes less energy
- Anyone has a chance to produce blocks



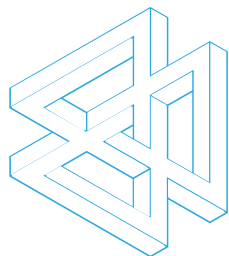
Cons

- The rich ones get richer: Only the richest stakeholders are able to control the consensus in the blockchain.
- Less hardware: Doesn't require "supercomputers". Being slow because of slowest nodes



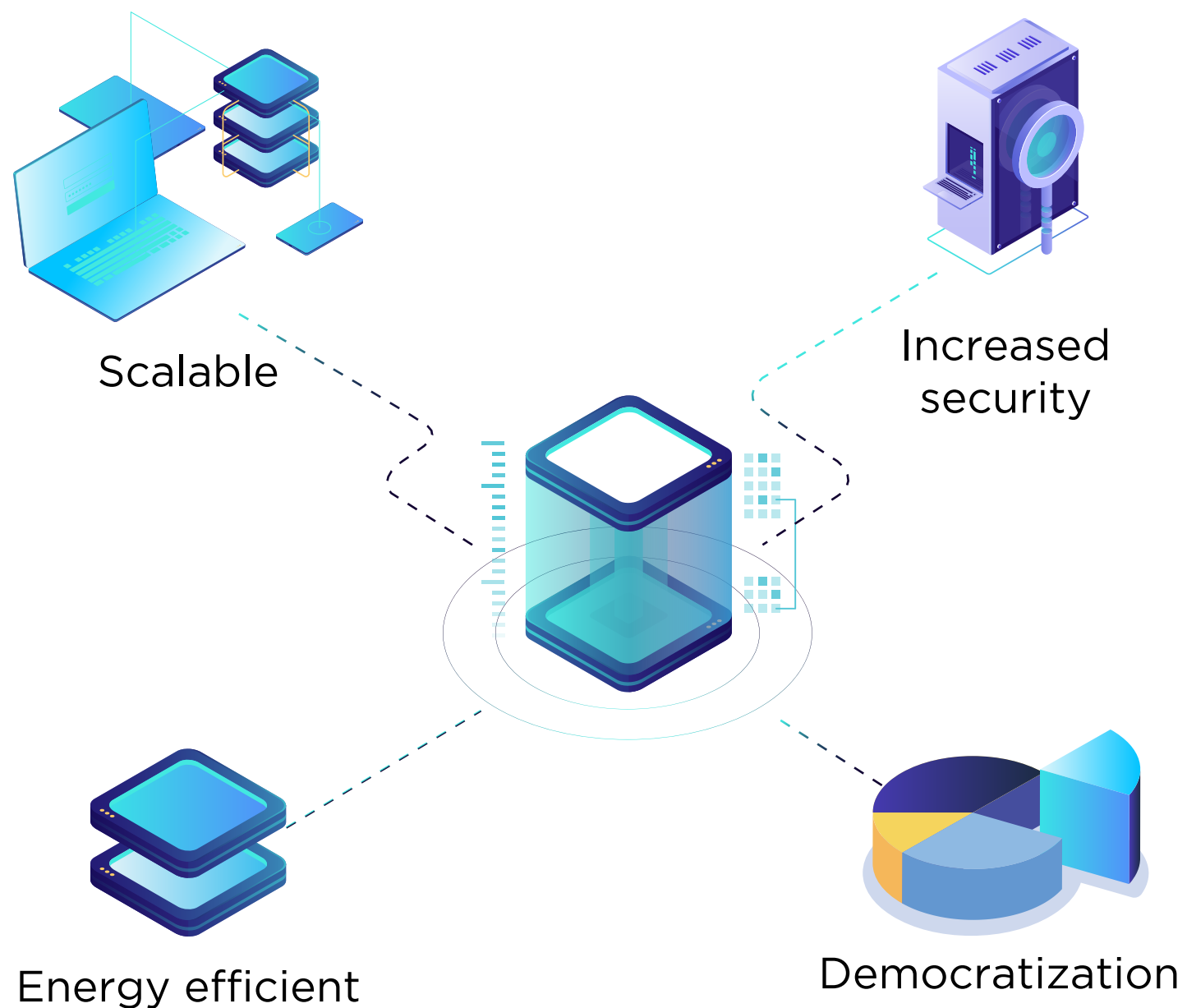
CONSENSUS MECHANISM 3.0 DPOS



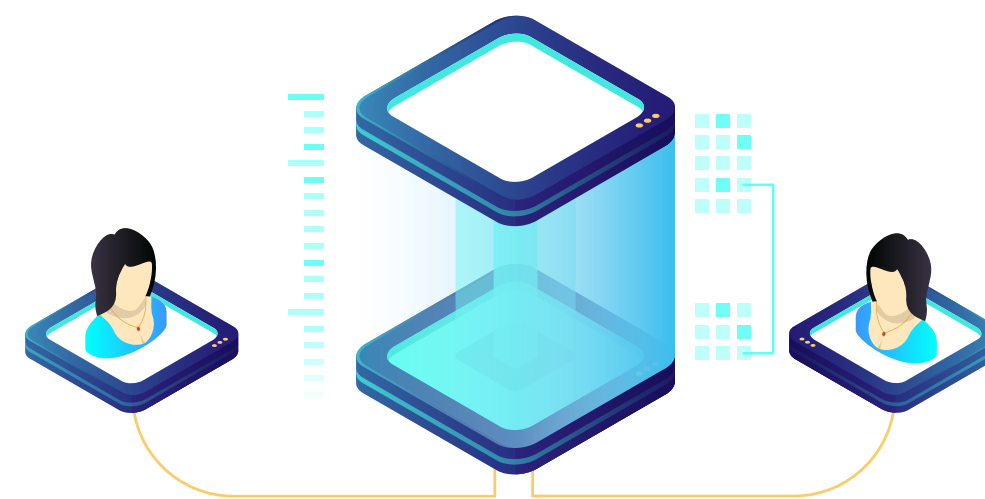


CONSENSUS MECHANISM 3.0 DPOS

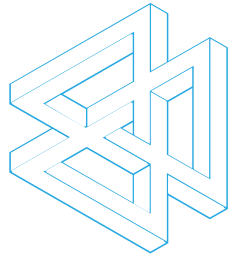
PROS



CONS



- Under threat of being attacked: Because fewer people are in charge of keeping the network alive, it's easier to organize a "51%" attack
- The rich may get richer.
- Apathy can kill: Without a large number of engaged users, the system will not function as intended.
- Cartels: The list of witnesses could be organized into cartels



THE DCS TRIANGLE

"The DCS Triangle – Decentralized, Consistent, Scalable. **Pick any two**"

Planetary Scale

High throughput
High capacity
Low latency

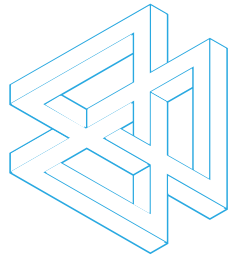


Fully Decentralized

Anyone can join as validator

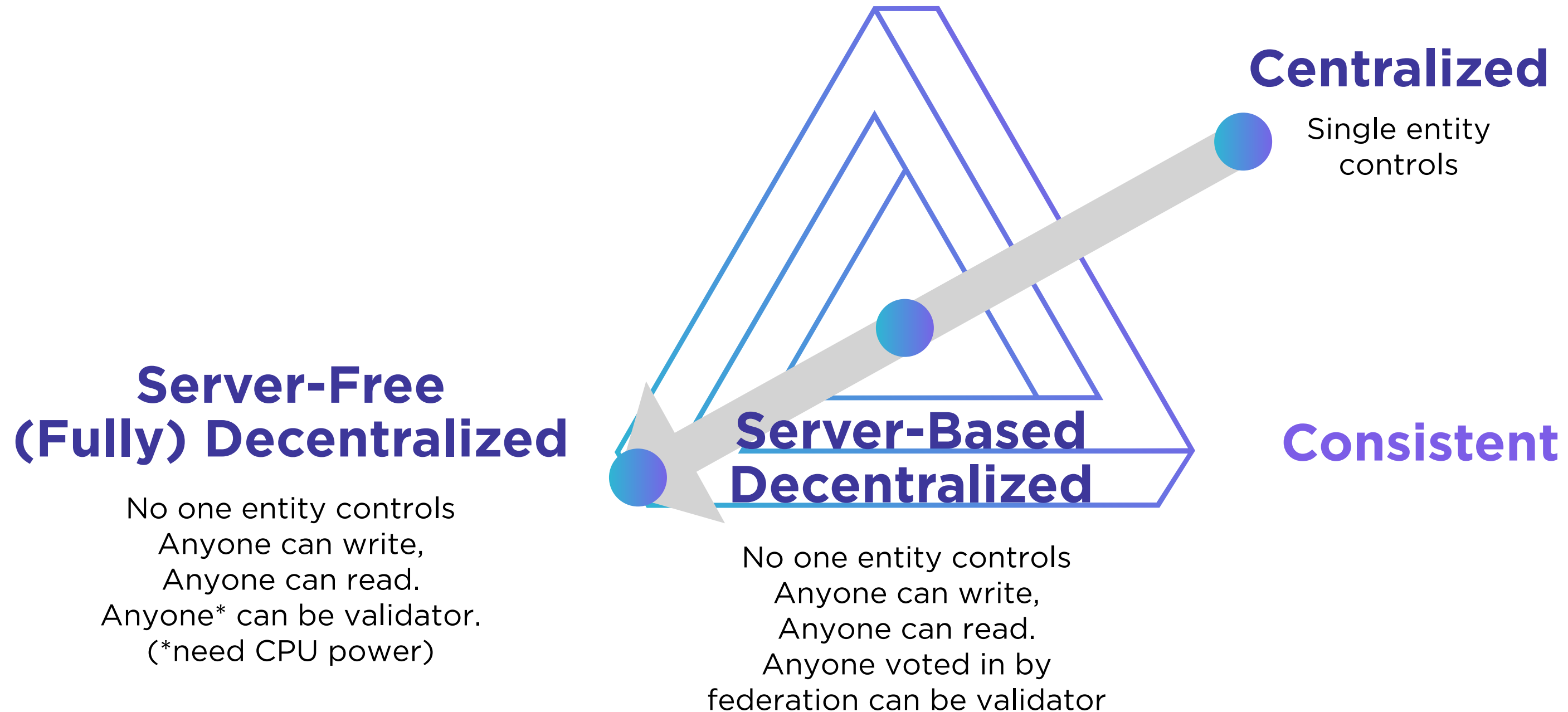
Consistent

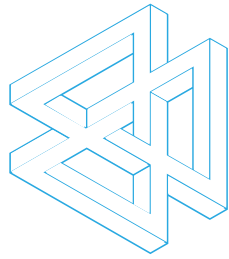
All nodes see same data
at same time



THERE ARE THREE DEGREES OF DECENTRALIZATION

Planetary Scale





SO, WHAT DOES THIS MEAN FOR YOUR BUSINESS?

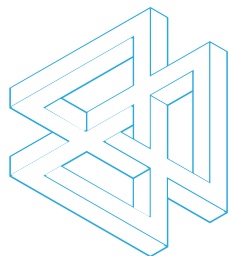


What's the scale of your project?

Is your blockchain public or permissioned?

What are your performance requirements?

Token or no token?



CAMERA ECONOMY

We believe camera device is an eye vision computing for human



Camera data is a new kind of digital asset

14 billion cameras by 2017,
44 billions by 2022

The revenue sharing in many industries is platform-dependent, manipulated by monopolies



UMBALA NETWORK BLOCKCHAIN



Support Millions of Users &
Friendly User Experience



Free Usage



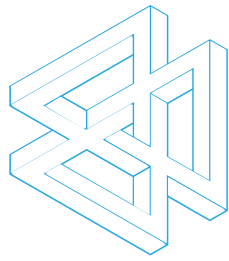
Low Latency



High Performance



Over-the-air Update



PROBLEM



Not Scalable

Limited computational capacity preventing widespread blockchain adoption



DPoS Problem

Stake voting based on an unfair incentive mechanism for standby Block Producers and is controlled by Sharks & Whales



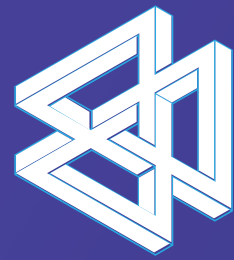
Costly & Not User-friendly

Burdened by large fees and not friendly to use for DApp producers and mass consumers



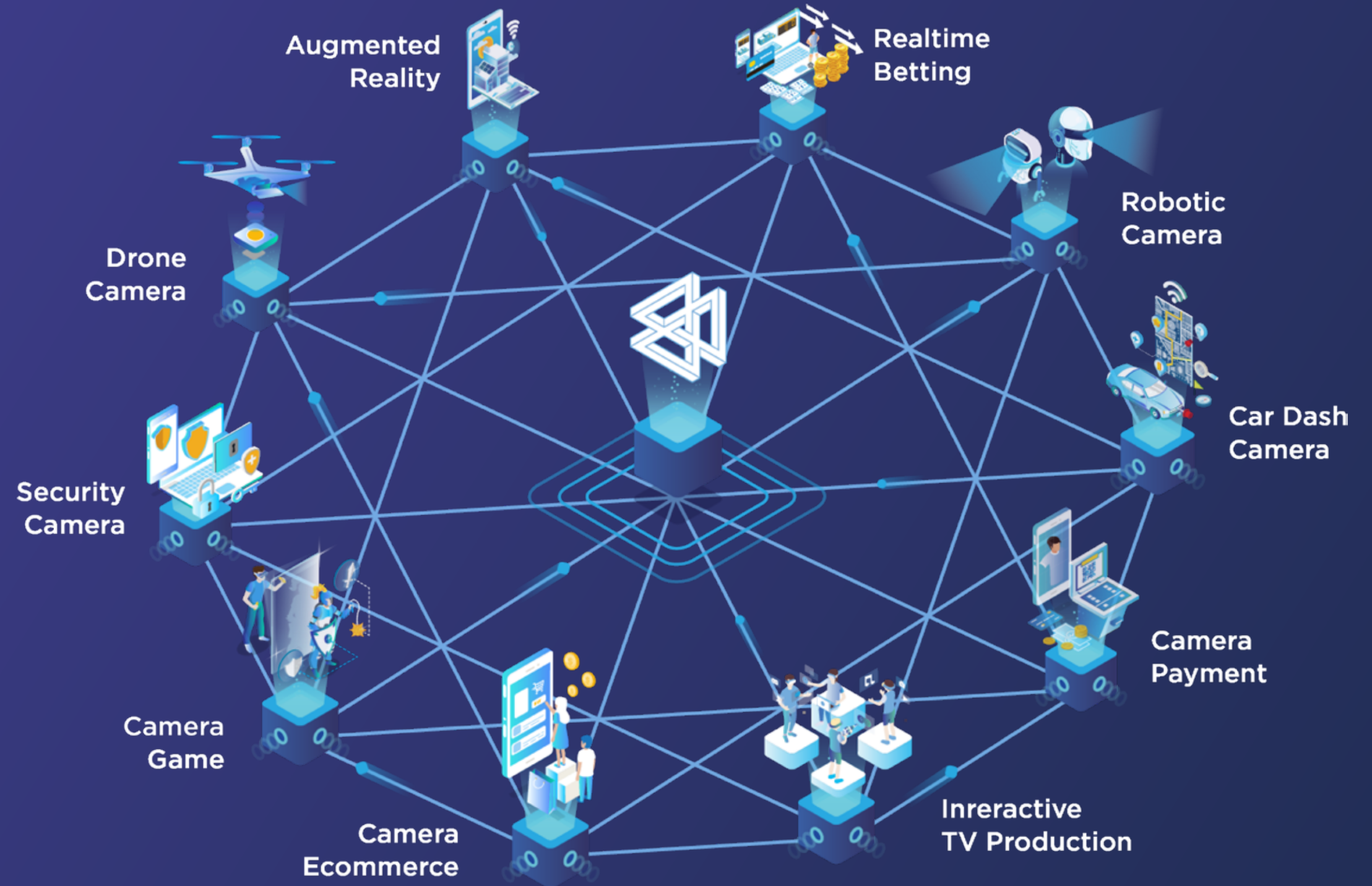
Hard to upgrade

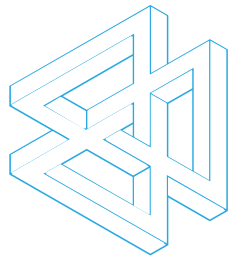
It takes a lot of time for existing blockchain platforms to be upgraded



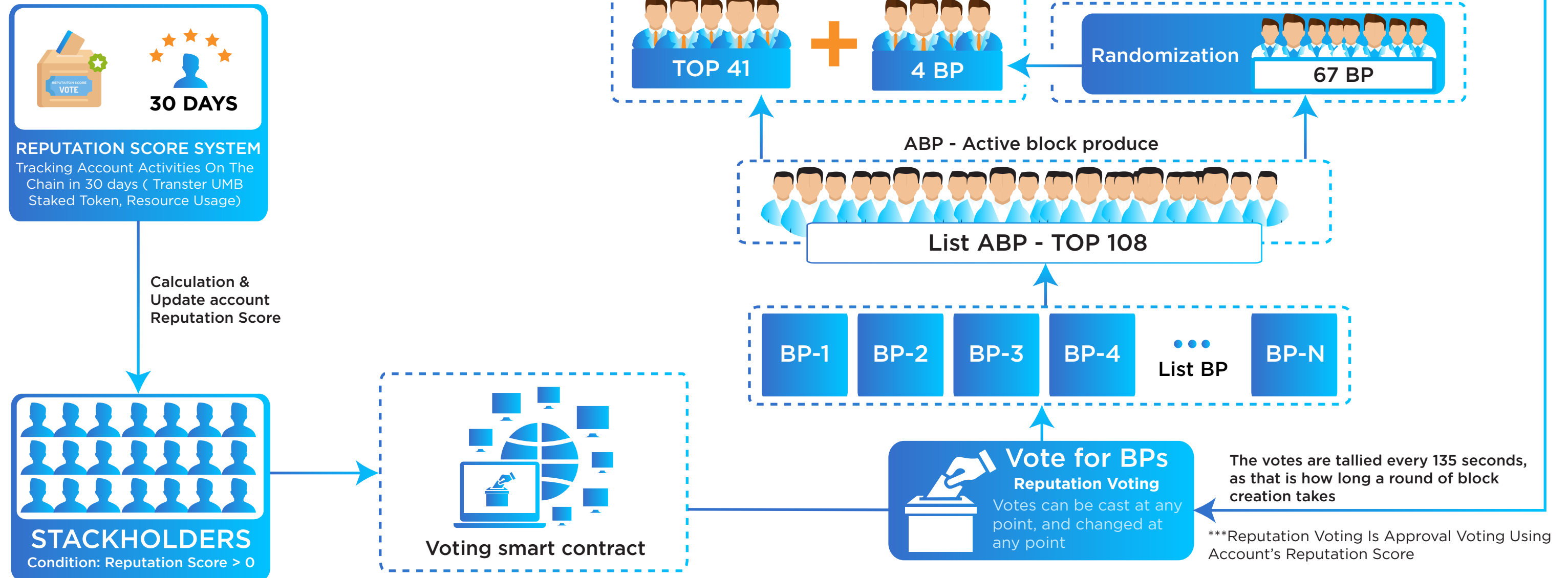
UMBALA NETWORK

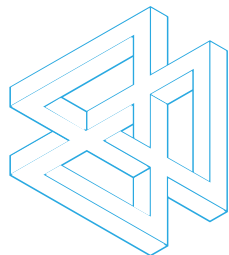
Umbala Network aims to create a **performance-focus & highly-scalable blockchain** to connect **billions camera** devices all over the world and accelerate **decentralized eye vision computing applications**





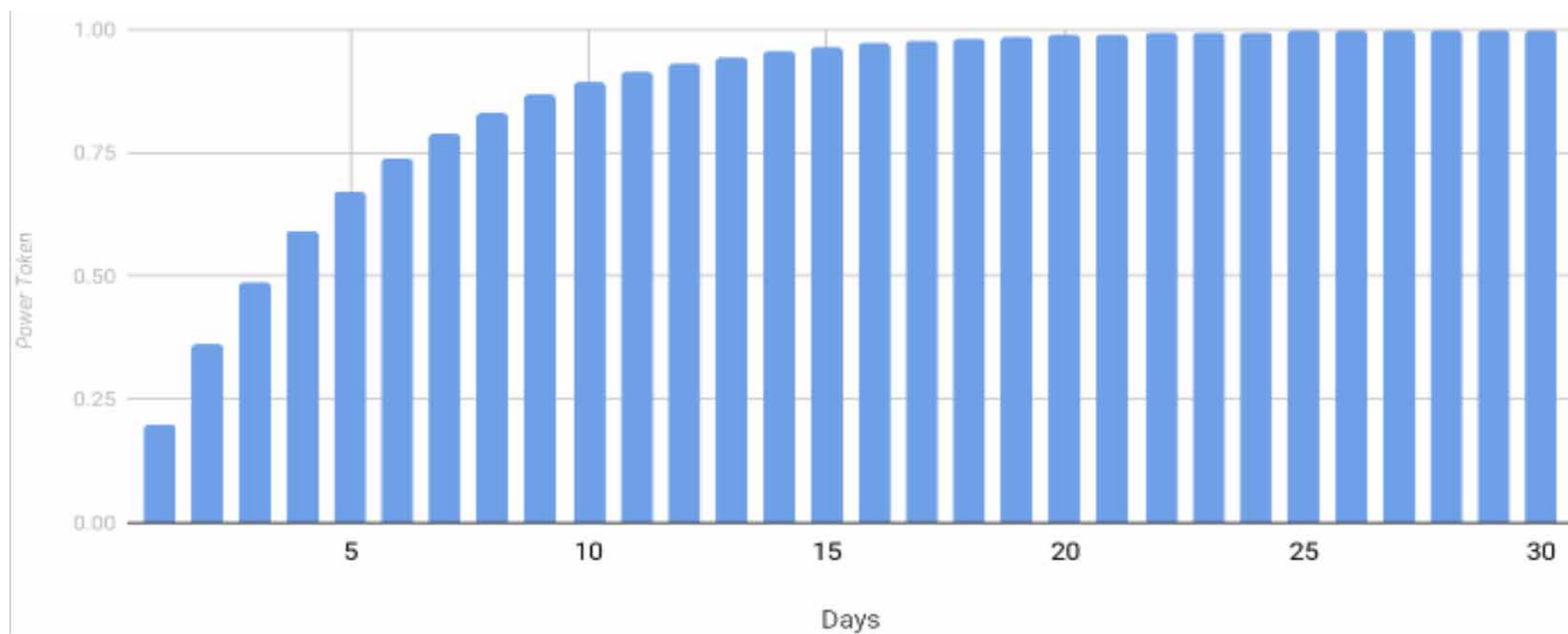
DPOR 108

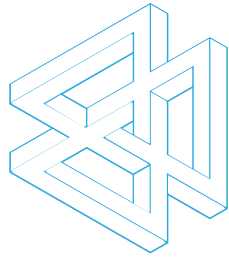




DPOR 108: POWER SCORE

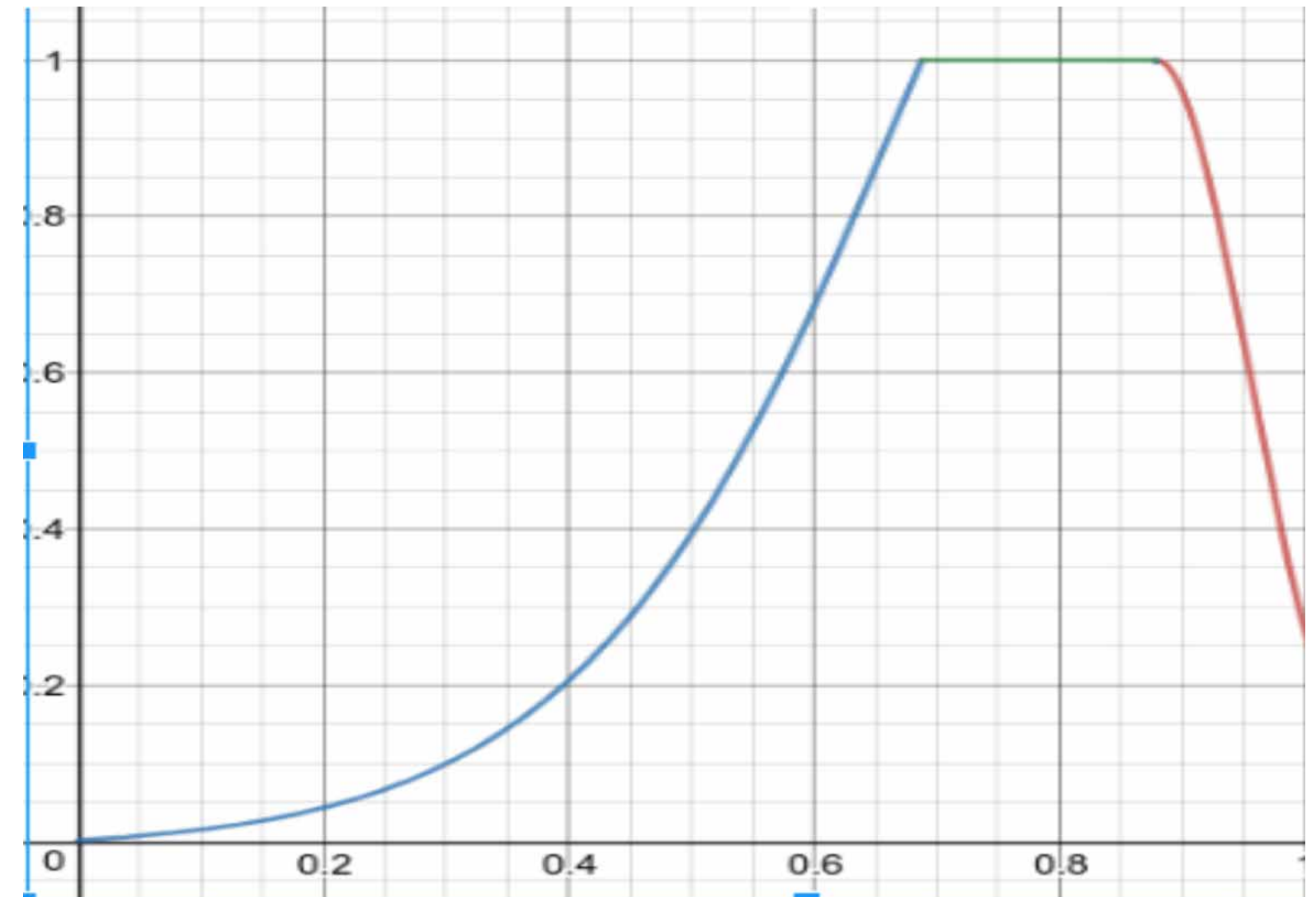
- A metric based on staked tokens
- Each day, only 10% of staked tokens that have not been converted to power score will be converted to power score.
- Only after about roughly 30 days, your staked tokens will be fully converted.
- If you un-stake your tokens, your converted tokens will be unstaked first.

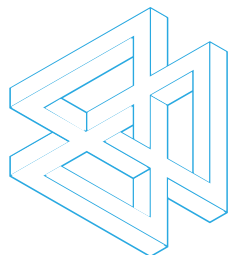




DPOR 108: RESOURCE SCORE

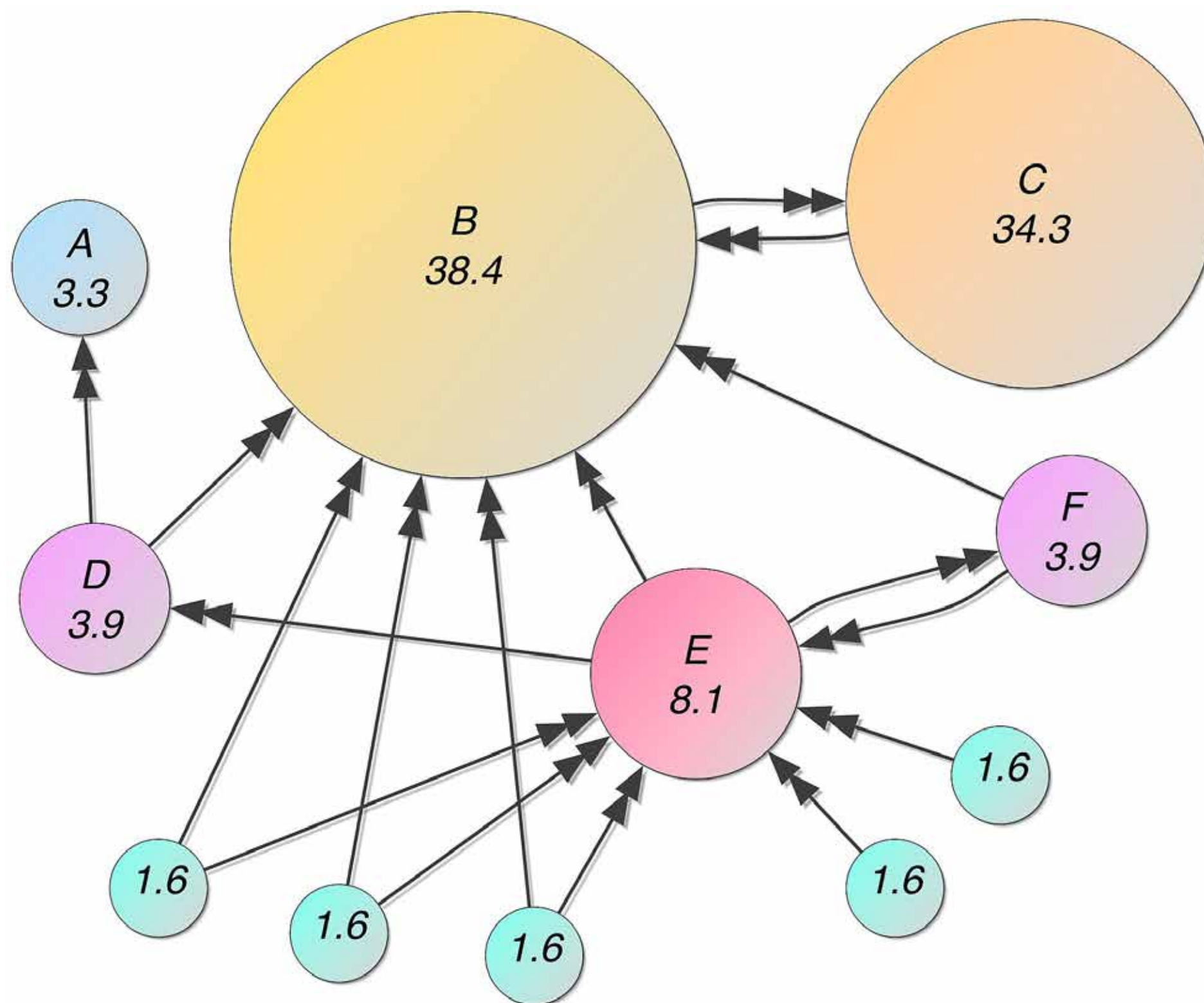
- Blockchain Resource As Digital Asset (CPU, RAM , Network Bandwidth)
-> DApp Developer Need Stake Token/Rent Resource To Execute Smart Contract
- If they own 10% of resources of the network, they can be able to execute at the maximum 10% of all transactions.
- We encourage them to utilize their allocated resources
- Accounts will have optimal resource usage score when they utilize 70-90% their allocated resources.
- When resource utilization of an account goes far from that range, its score will drop very fast.





DPOR 108: TRANSACTION SCORE

- A metric inspired from Google famous PageRank algorithm.
- To create a big graph of transactions between users.
- Based on transaction traffic flow, we evaluate which account has more interactions/impacts with/to other accounts.

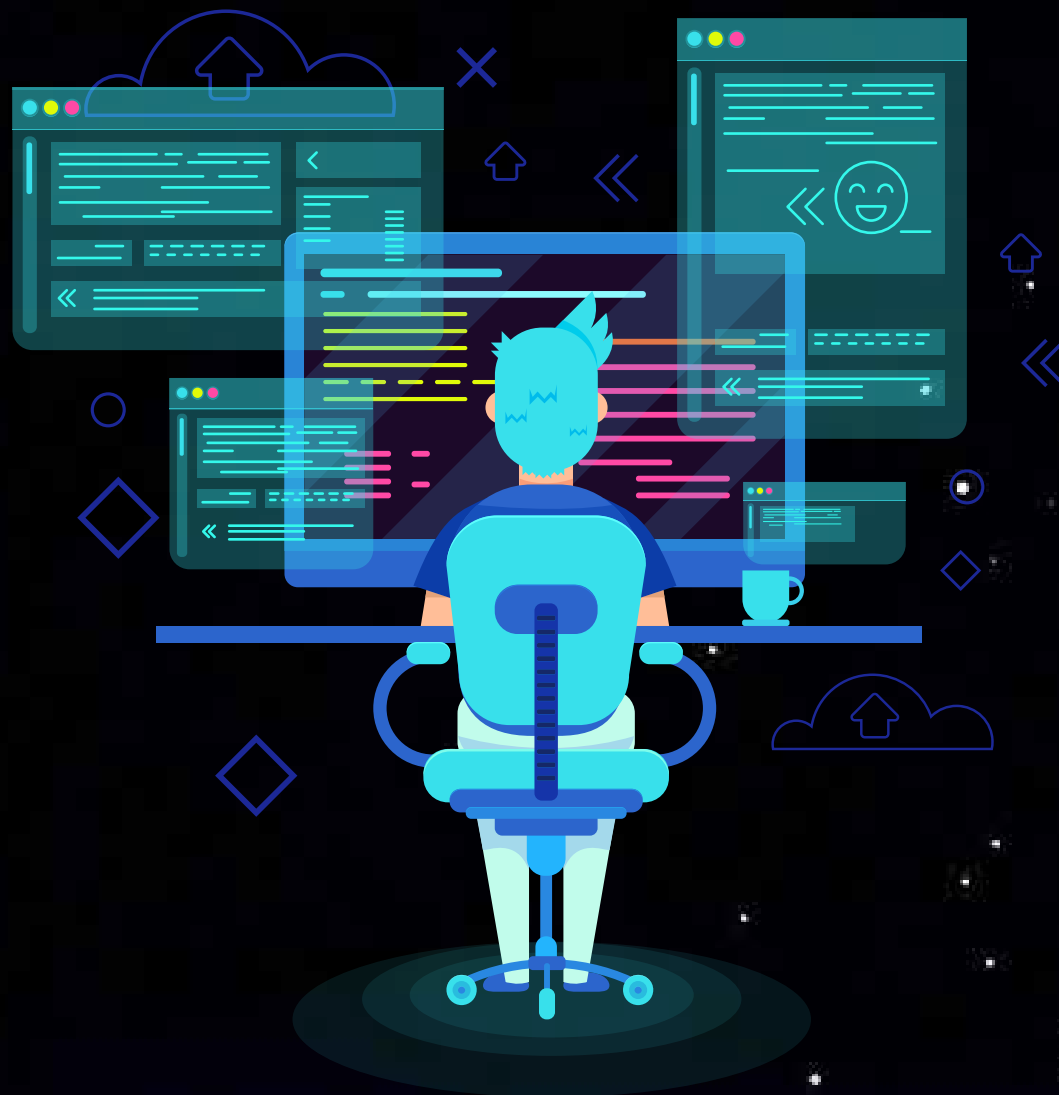




WE ARE HIRING

AI

BLOCKCHAIN



DEVELOPER



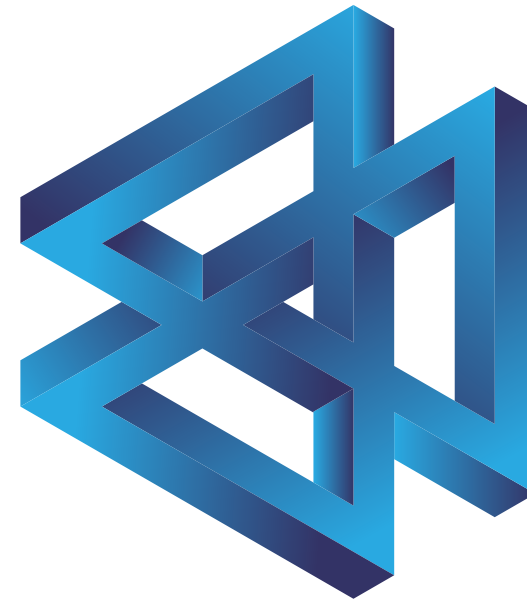
fb/Umbala.tuyendung



hello@umbala.network

Ko cần các bạn phải có kinh nghiệm, vì chúng tôi sẵn sàng **Training** các bạn trở thành **Expert**

Nhằm phát triển toàn bộ nền tảng và các protocol cho Umbala Network Blockchain, Umbala đang tuyển nhiều bạn tham gia team làm về **Blockchain** và **AI**



Thank You

hello@umbala.network



Landing Page



Telegram ANN



Telegram Group



Twitter



Medium



Facebook