



CLCCHAIN

The World's first Public Chain
for Decentralized NaaS (Network-as-a-Service)

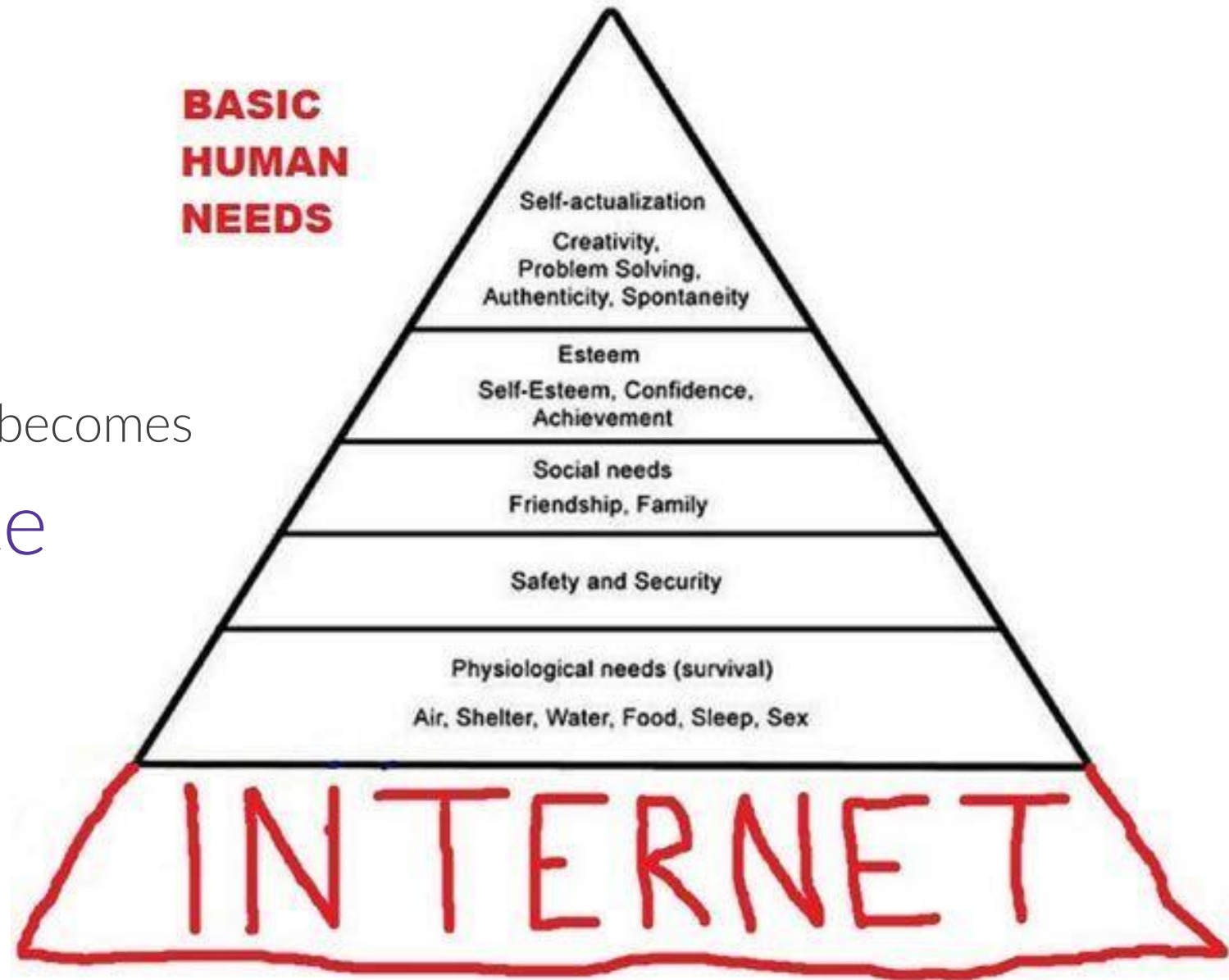


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What is Net-as-a-Service:
when network infrastructure becomes
on-demand service

**BASIC
HUMAN
NEEDS**



2.3 billion people ...
can't live without internet



Whenever, wherever
We are covered by
Network Services



What's the Problem with current Mobile Network Operation?



Problem of Privacy and Network Restrictions

When I use WiFi
I want it to be private and secure

- Is public WiFi secure?
- Is WiFi in hotels secure?
- Can I operate transactions in full security & privacy?
- Can I escape a restrictive Network at Work or School?



Problem of Payment

Paying for WiFi
or other mobile services is:

- Overpriced
- Complicated
- Limited
I can't just pay a reasonable amount, just when I need it and only for the data and time I used it.



Problem of Trust

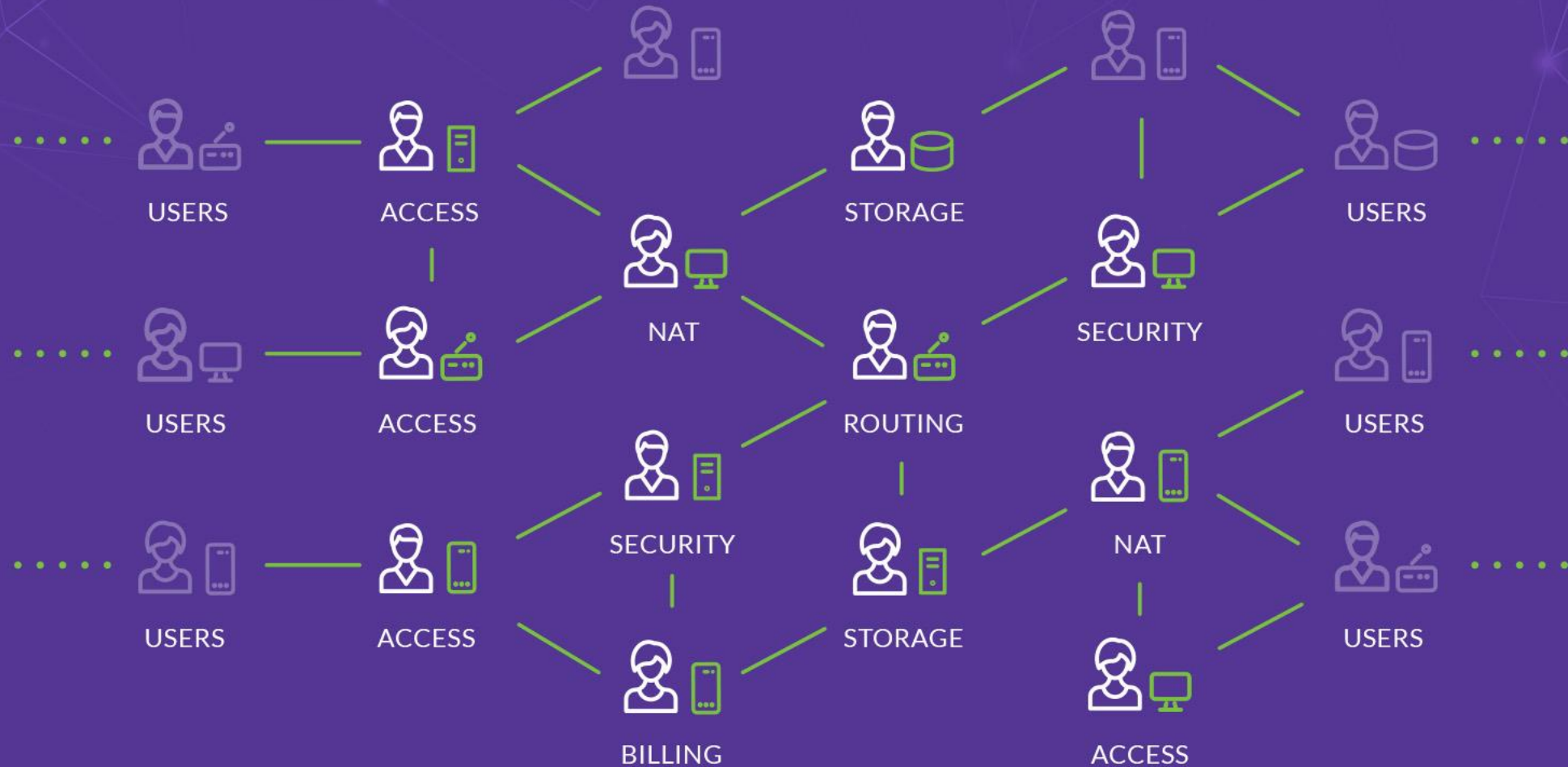
How to make sure
I can trust a WiFi on the go?

- Are reviews real and trustworthy?
- Am I sure a reviewer has actually used the reviewed service?
- I don't have an audit trail.
- Reviews don't contain information to prove a review is real and to trust.

The Solution:
Decentralized Network Services!



The Future is... Decentralized Network



Why decentralized network service is significant as a part of decentralized infrastructure?

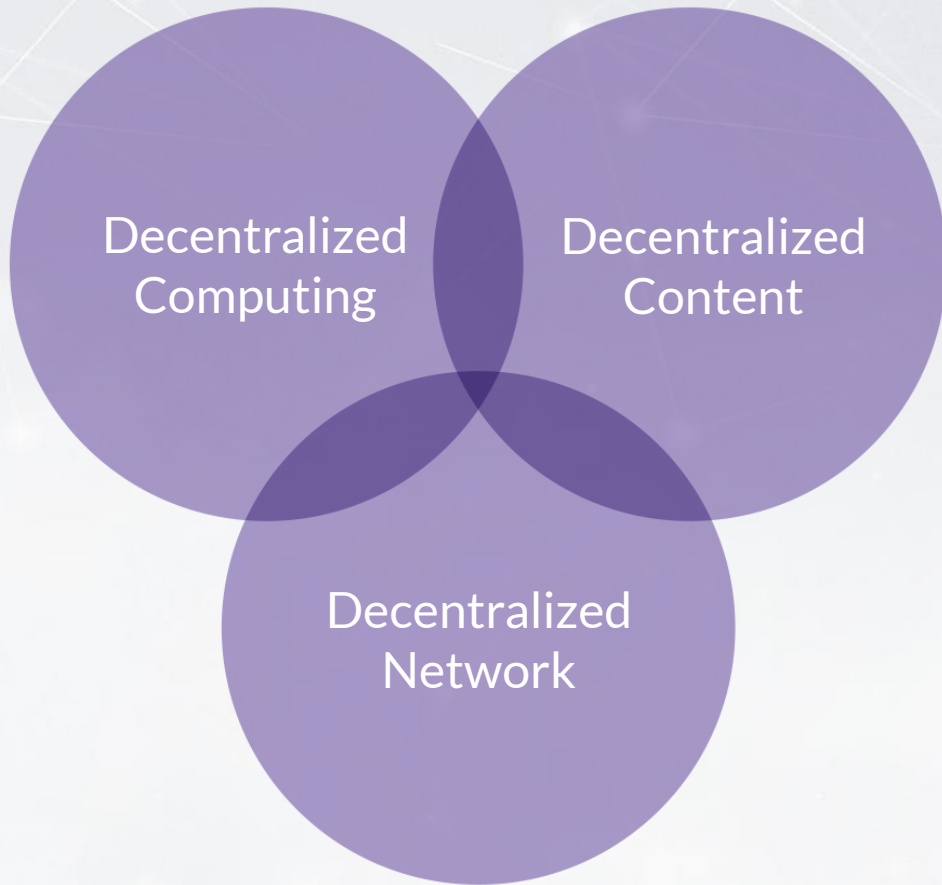
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Current vs Distributed Internet protocol

Upon the wave of decentralization, new protocol will be introduced

Layer of Internet	Current Internet Protocol	The Future... Distributed Internet Protocol
Content/Application	HTTP, SMTP, DNS	Hash ID resolution, IPFS
Computing	TCP	Decentralized computing Ethereum, EOS
Network	Linux OS	Decentralized NaaS

The Infrastructure of Decentralization



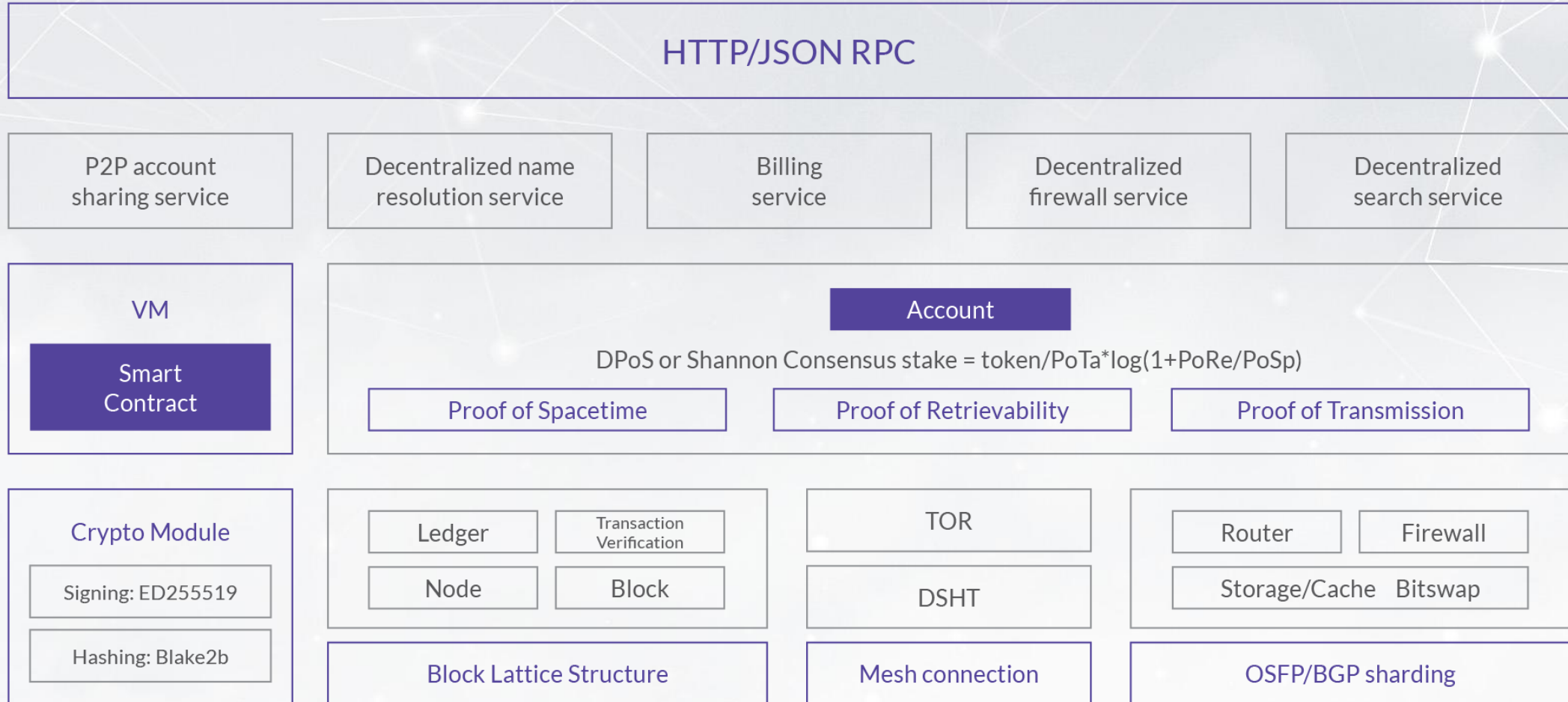
$$\begin{array}{l} \text{Network} \\ \text{Service} \end{array} + \text{Blockchain} \\ \\ = \\ \text{QLC Chain}$$



How does QLC Chain
implement this idea?



QLC Chain Architecture



Blockchain

Smart
Contract

Dual
Consensus

Block
Lattice

QLC Smart
Contract

Shannon
Consensus
+ dPoS

How does it work?

1. To register network related devices, QLC Chain will turn them into **four types of basic nodes of network**.
2. Each node can provide service to others.
3. QLC Chain applies **Block Lattice**, multiple account system. Each node will have its own blockchain to record services provided to any user. Each time service is provided, for example Wi-Fi access, VPN access, data transmission, it's a transaction.
4. Smart Contract will govern the execution among different nodes.
5. Dual consensus – dPoS and Shannon Consensus



PRIVATE KEY
PUBLIC KEY



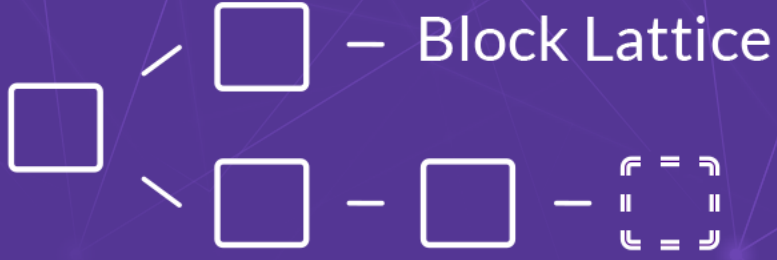
SMART
CONTRACT



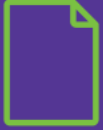
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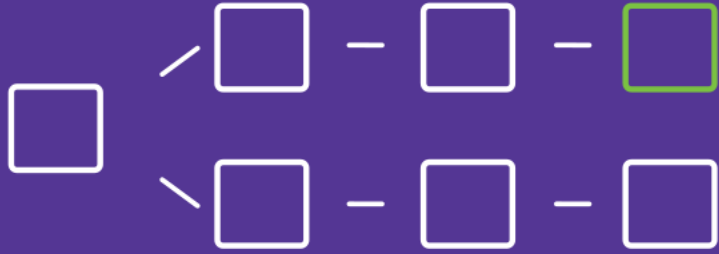
Multidimensional Account



SMART CONTRACT



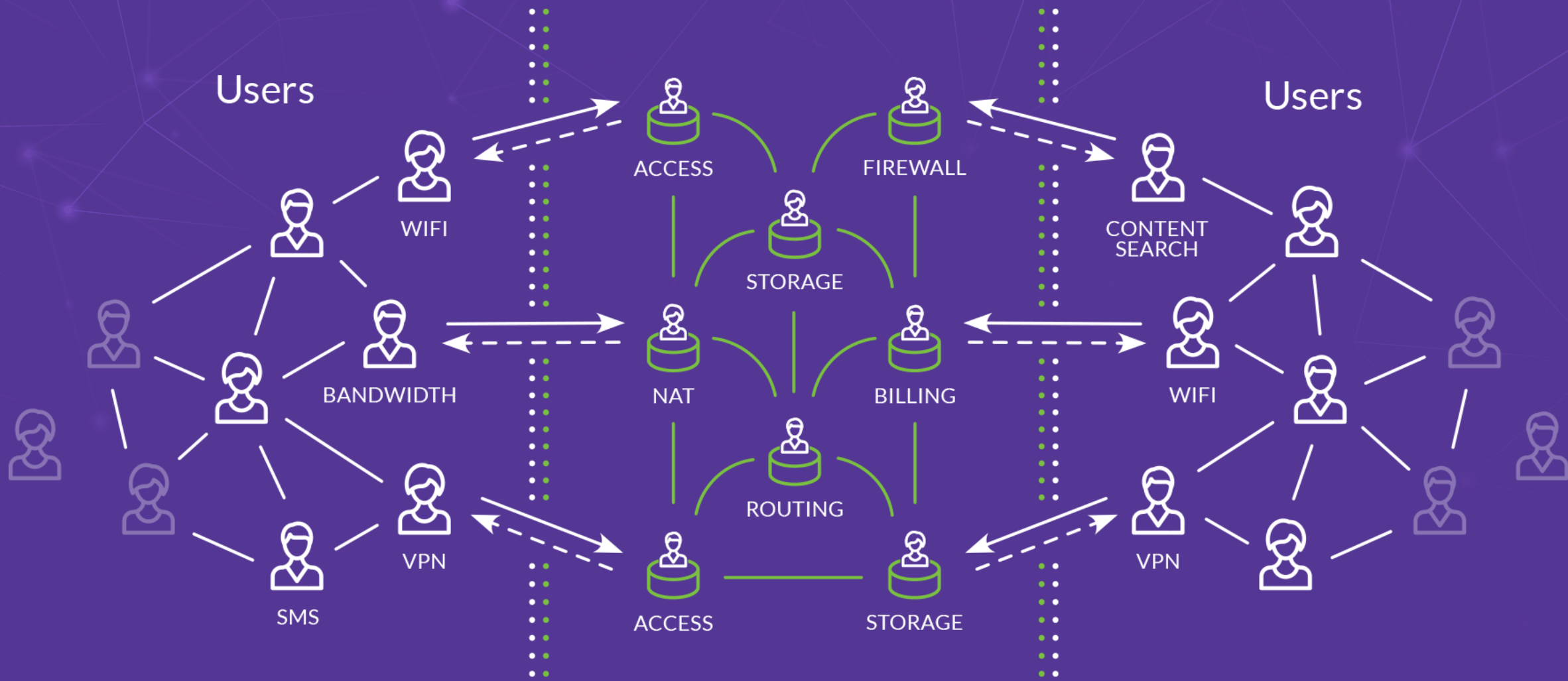
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SMART CONTRACT







API and SDK for Developers



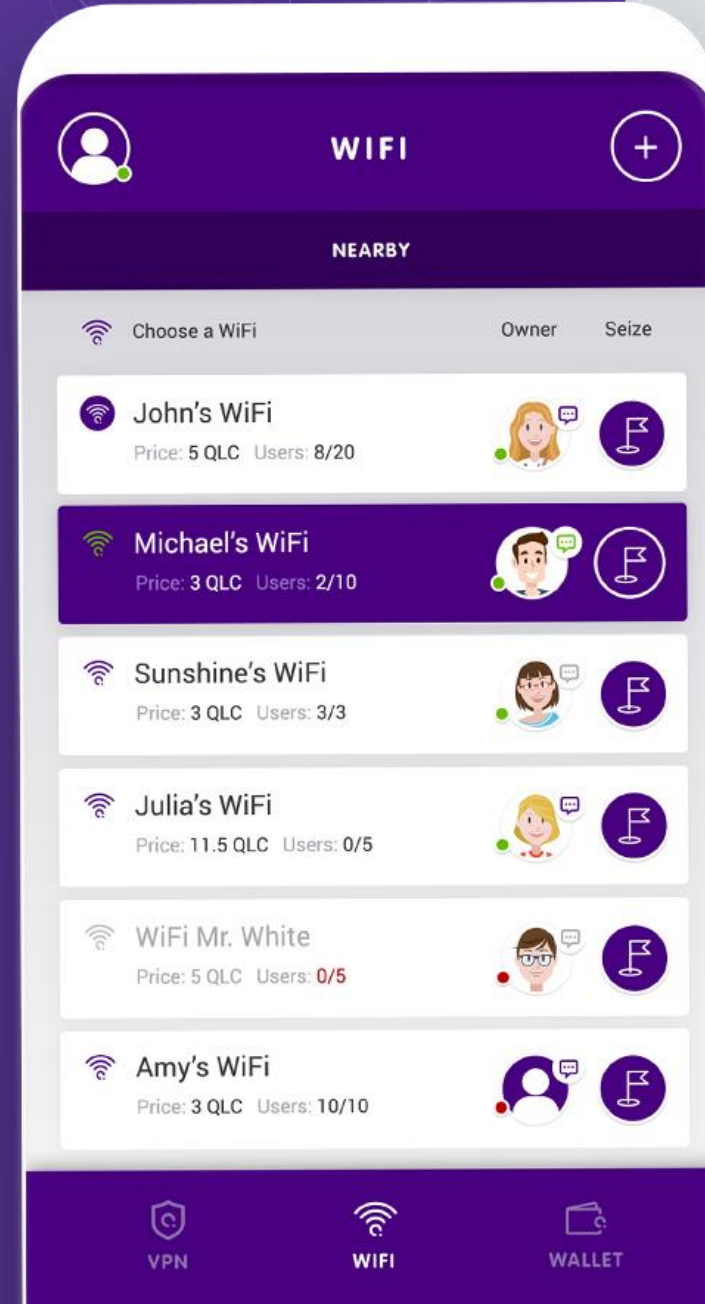
Some concepts to illustrate the possibilities

- **P2P account sharing protocol**
share login & password through P2P network without disclosing any details
- **Decentralized name resolution protocol**
every QLC Chain node contributes its capability to translate names
(domain names, hash names or other self-defined names) into P2P identification
- **Trusted billing protocol**
nodes verify the actual result of information
- **Proof of Retrievability**
destination nodes and only destination nodes store content index dictionary

The 1st dApp on
Account Sharing Protocol

WiFi Account Sharing

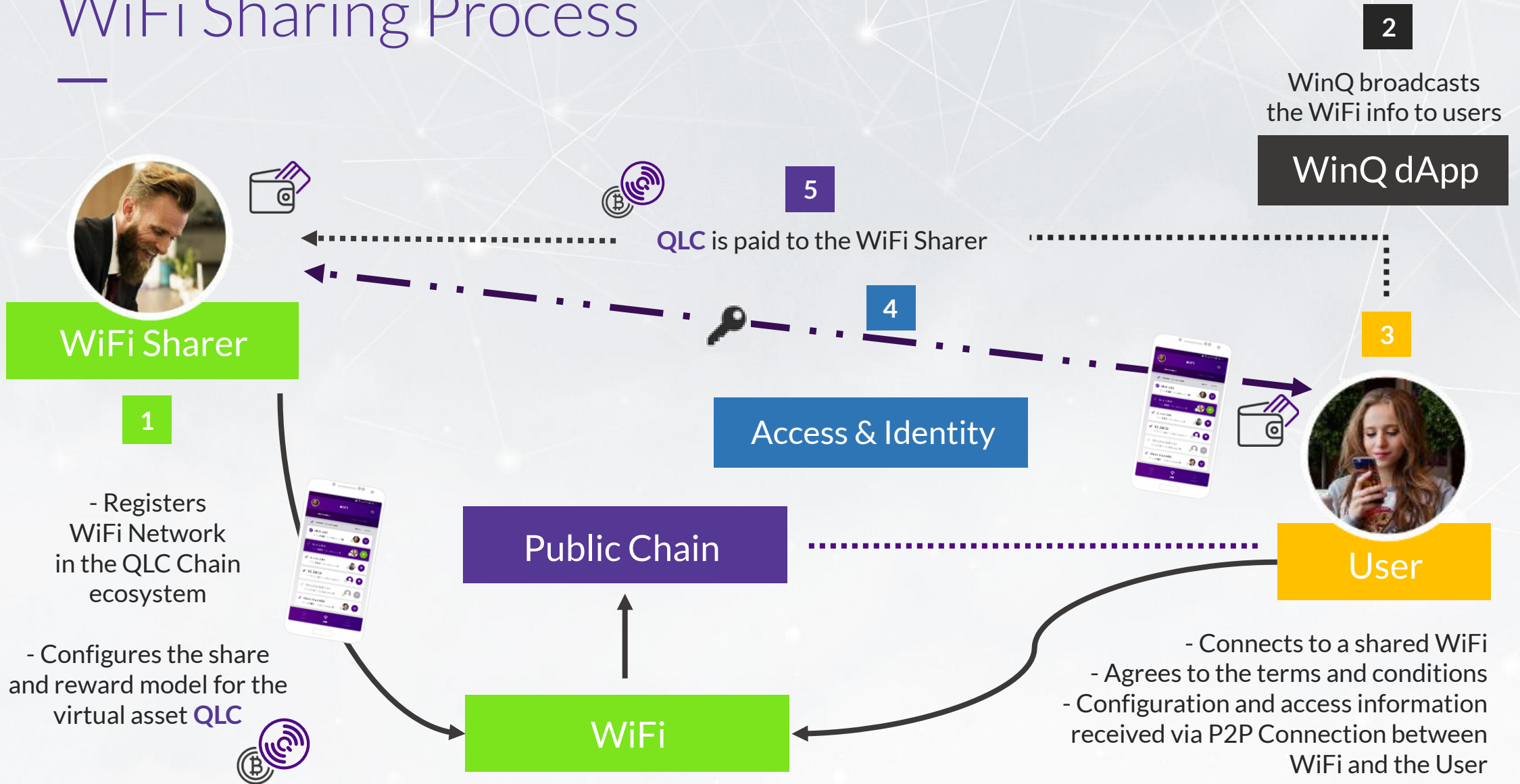
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POWERED BY BLOCKCHAIN



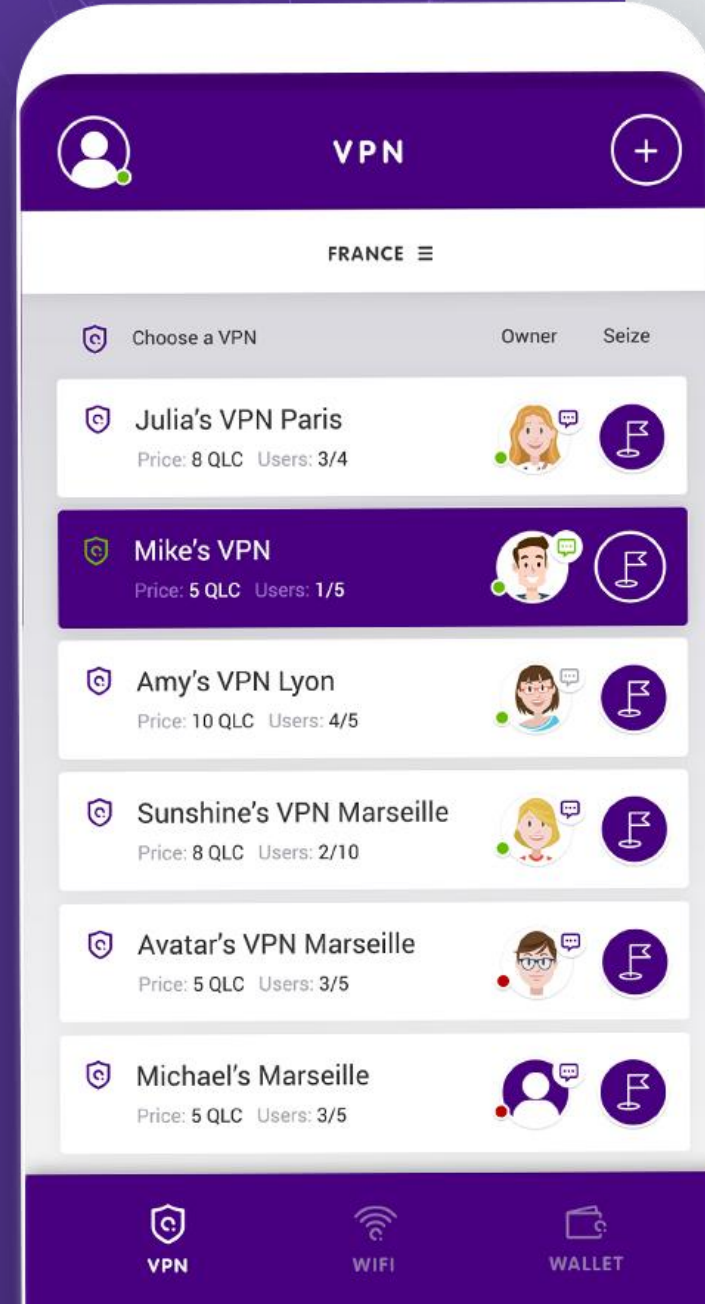
WiFi Sharing Process



The 2nd dApp on
Account Sharing Protocol

Decentralized VPN

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Exchange Listing

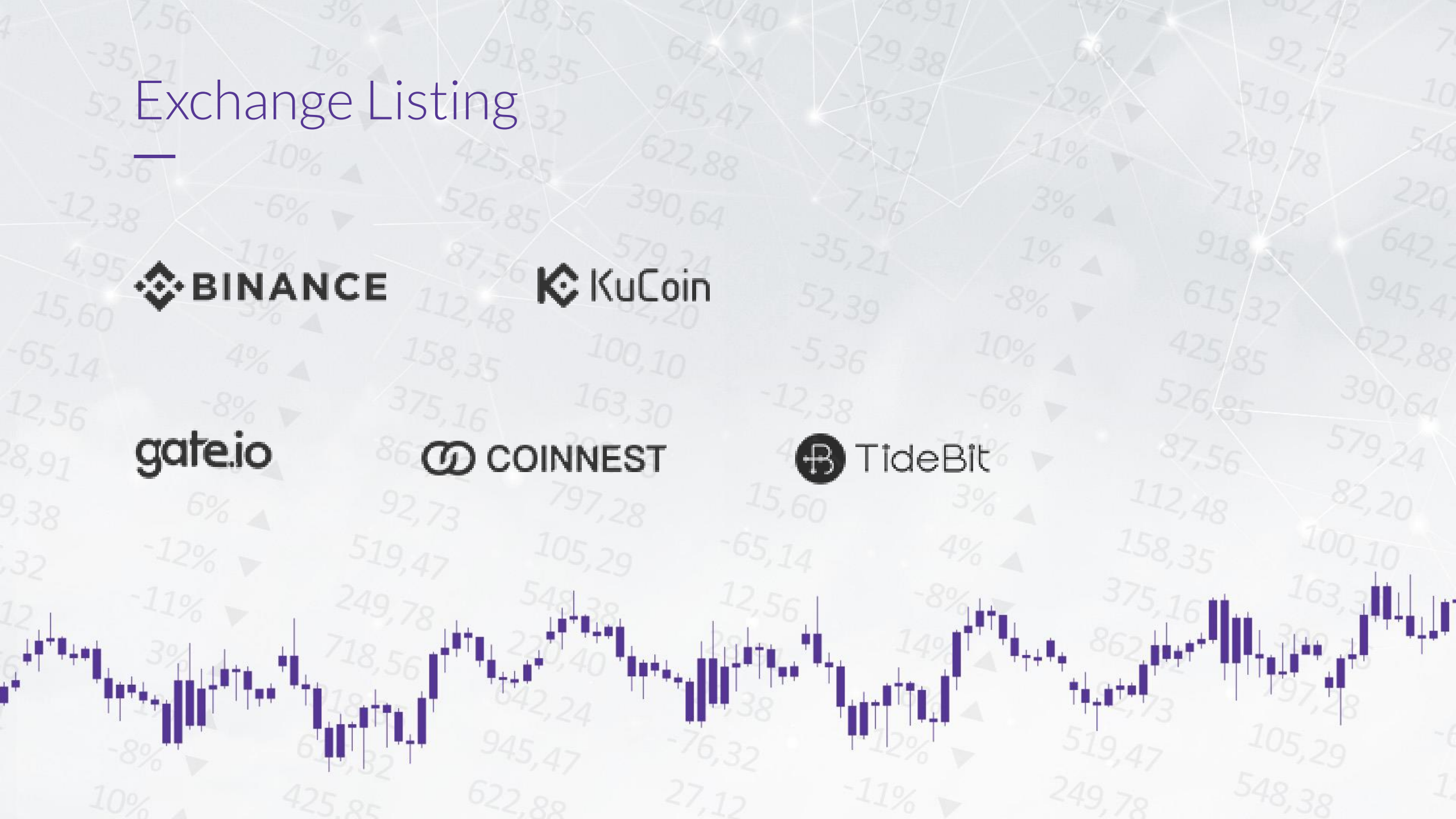
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 **KuCoin**

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and be part of Decentralized Network

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Thank you!

