

NKN: New Kind of Network

building the world's largest blockchain for network sharing

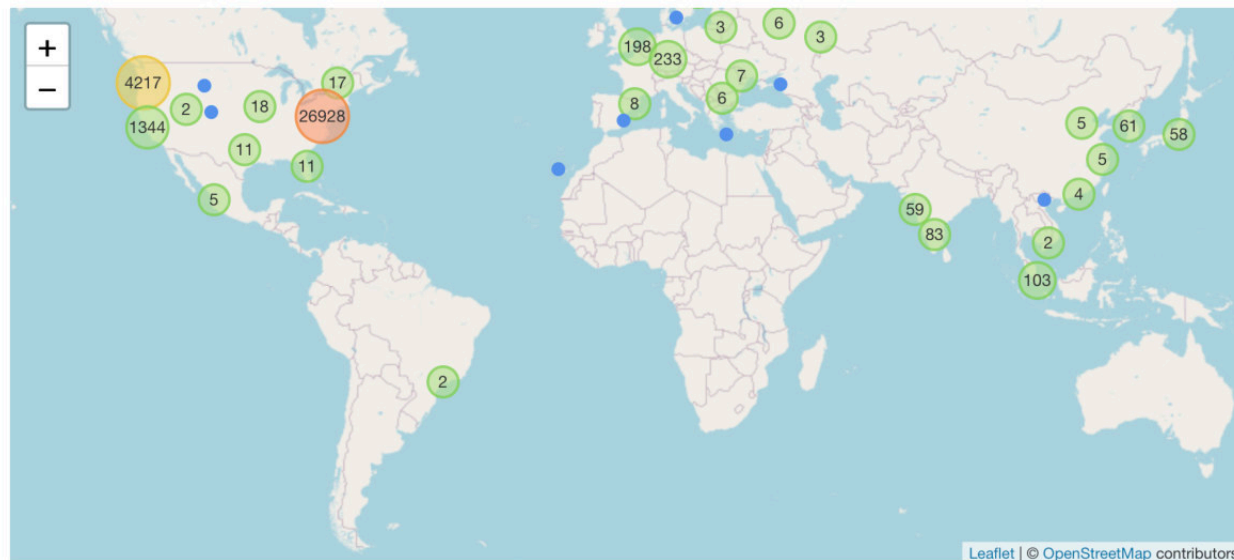


November 2020 Edition

NKN is building the world's largest blockchain network

Full nodes: **33426**

Countries and regions running NKN nodes: 36
([join as miner](#))



RANK	COUNTRY	NODES
1	United States	32494 (97.22%)
2	Germany	224 (0.67%)
3	India	141 (0.42%)
4	Singapore	103 (0.31%)
5	Netherlands	81 (0.24%)
6	United Kingdom	74 (0.22%)
7	Canada	70 (0.21%)
8	South Korea	61 (0.18%)
9	Japan	58 (0.17%)
10	France	45 (0.13%)
11	China	13 (0.04%)
12	Russia	10 (0.03%)

NKN full nodes all around the world, with more nodes than Bitcoin network.

NKN : The Missing Element of Web 3.0

PROOF OF STORAGE

e.g. IPFS/Filecoin, Storj



PROOF OF WORK

e.g. Bitcoin, Ethereum

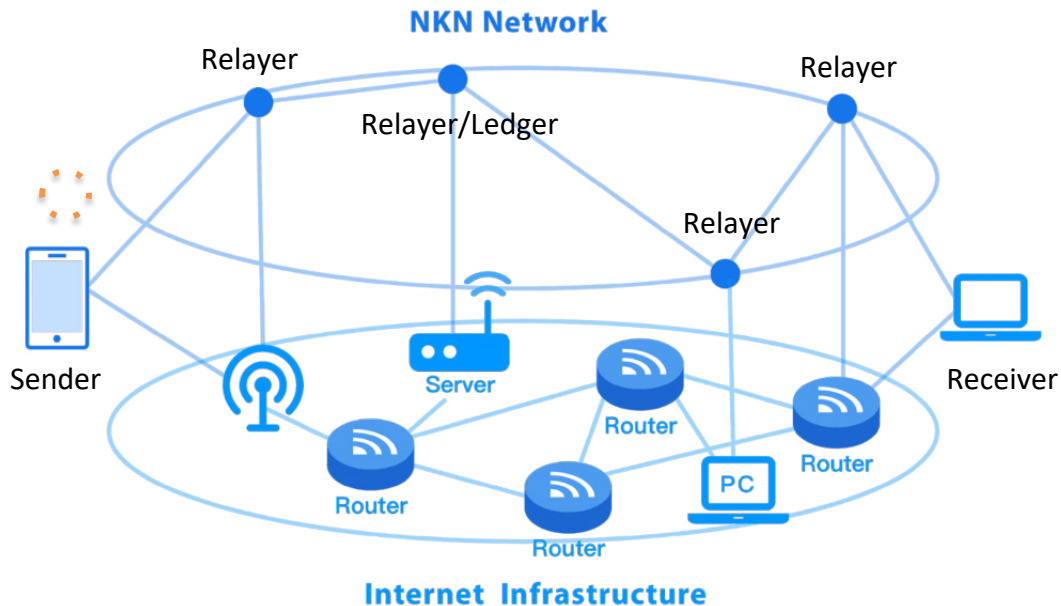


PROOF OF RELAY/TRANSMIT

Missing -> NKN



What is NKN



- A new kind of P2P network connectivity protocol & ecosystem powered by a novel public blockchain.
- economic incentives are provided to motivate Internet users to share network connection and bandwidth.
- a decentralized platform that contributes as the indispensable networking infrastructure for Web 3.0, the better Internet with transparent and open mechanism, by providing the server-less communication with security and privacy.

The NKN Advantages



Millions of nodes



High aggregated throughput



Zero Server



Unique & global ID



Extra security & privacy



Low latency

NKN core technology innovations

Dynamic topology & routing
based on Chord DHT, overlay
on top of TCP/IP



DDTN



POR

Signature Chain for secure and
verifiable data transmission;
useful proof of work

MOCA consensus algorithm
for Billions of equal nodes



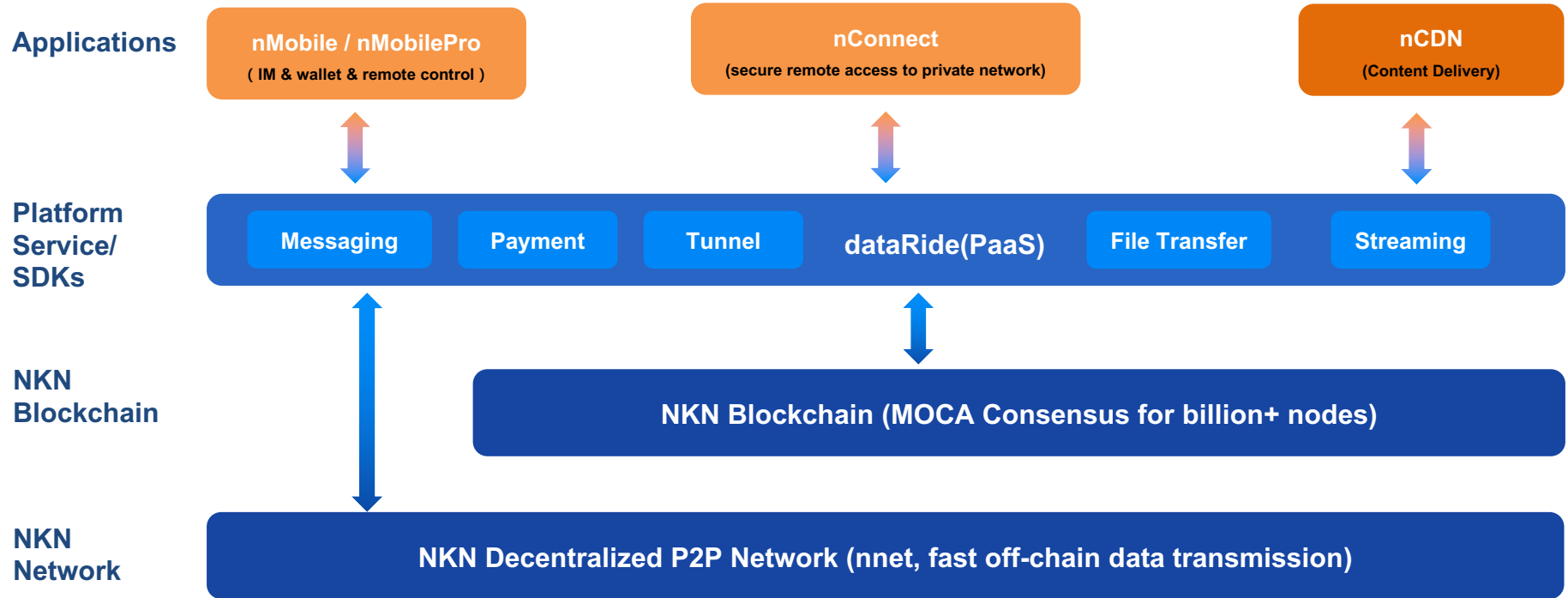
blockchain
consensus



incentive
distribution
mechanism

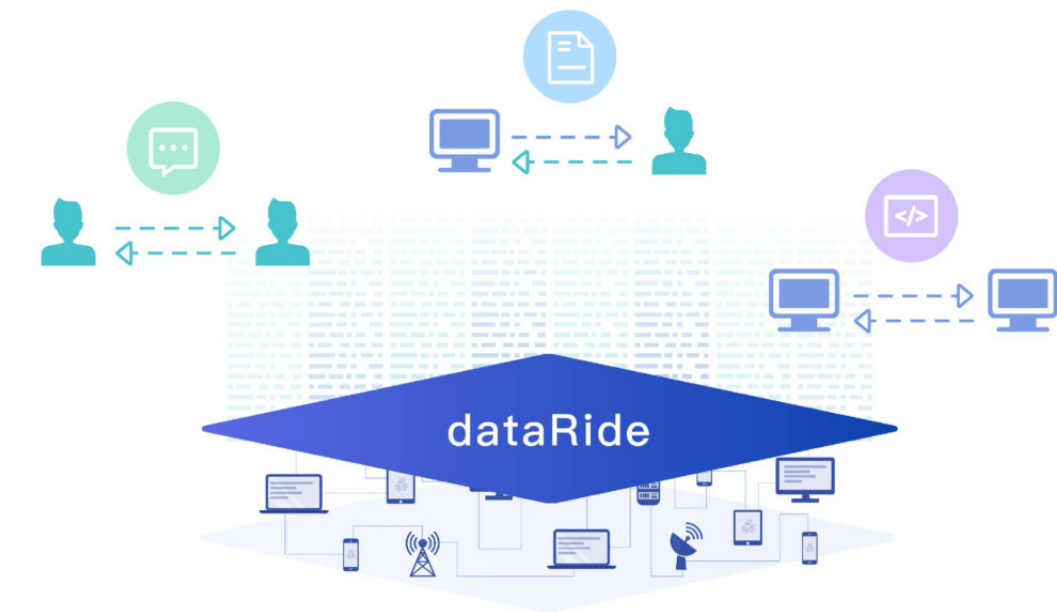
Relay and mining reward to
incentivize sharing and
building the new Internet

NKN system, services and products

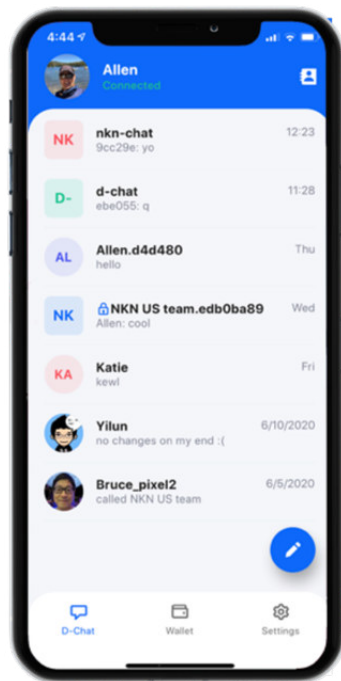


DataRide: Decentralized PaaS

DataRide: NKN's decentralized PaaS, built on crowd-sourced servers, provide the ultimate fast, reliable, secure and low-cost messaging, streaming and file transfer service for person to person, machine-human as well as machine-machine communication.



The Trusted Chat: the World's most secure chat, where your personal data is kept only on your device with your private one-on-one chat ensured by end-to-end encryption.



Security & Privacy Focused



Data Storage

Only on your device, never in cloud



No Central Server

eliminates cloud database breaches



open source

100% Open Source

transparent, auditable, trusted



Private Key

Only on your device, never in cloud

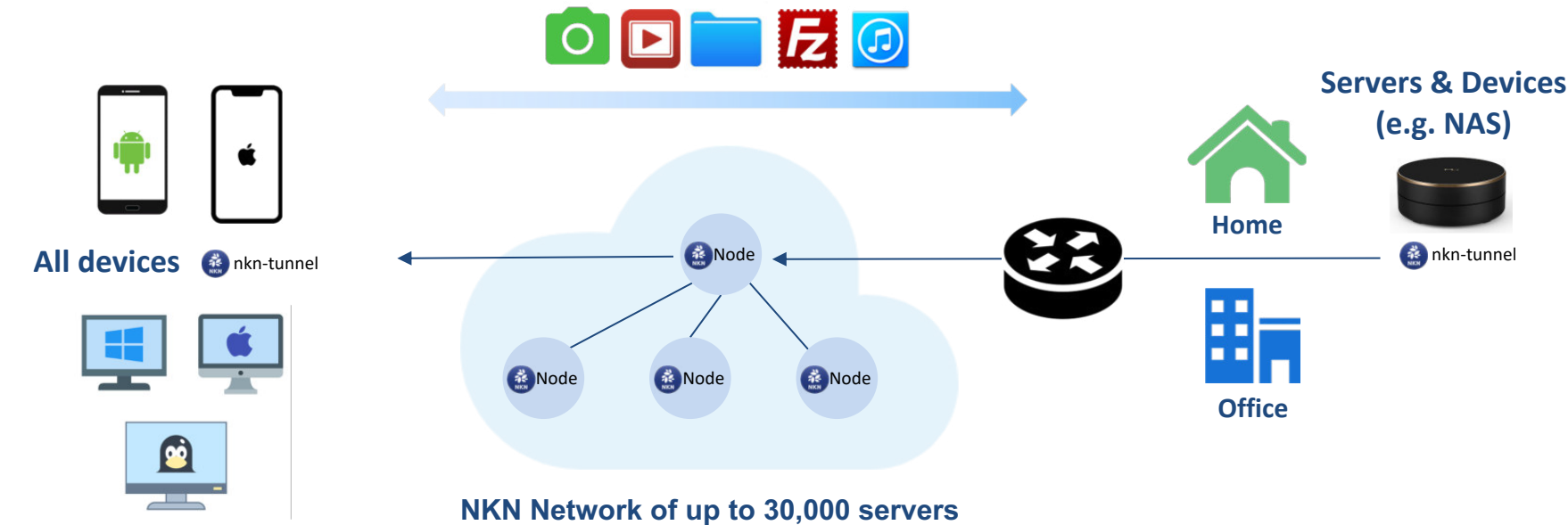


end-to-end Encryption

no data is accessible in transit

nConnect on dataRide

nConnect: remotely and securely accessing files and apps on private networks.





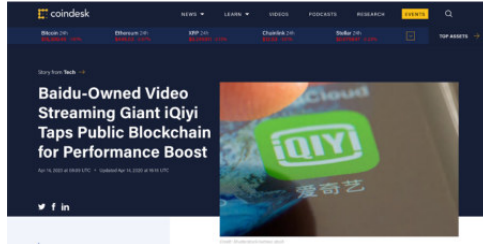
nCDN: A new kind of content delivery network, a crowdsourced service offering accelerated performance for website, video and all kinds of rich media contents.

Key Benefits

- ★ 24*7 Always on
- ★ Low cost
- ★ High Speed
- ★ Massive scale
- ★ Lowest Latency
- ★ Especially good for popular and longtail content
- ★ Dependable
- ★ Smartest scheduling



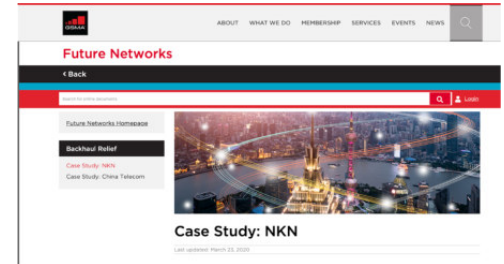
Commercial Success



[NKN with iQIYI](#)



[NKN with Synology](#)



[NKN with China Mobile](#)

Miscellaneous Applications by community



D-Chat

Secure and anonymous chat

[More information](#)



Surge:

A 100% anonymous P2P file sharing application

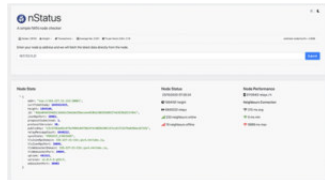
[More information](#)



nknX

NKN node and wallet manager

[More information](#)



nStatus:

NKN node analyser

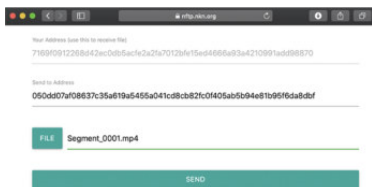
[More information](#)



NKN shell

Shell access over NKN network

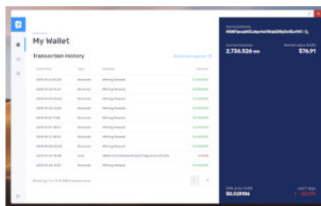
[More information](#)



nFile transfer

Sends file securely over NKN

[More information](#)



Vault

Multi OS desktop wallet

[More information](#)



nScan

Official NKN explorer

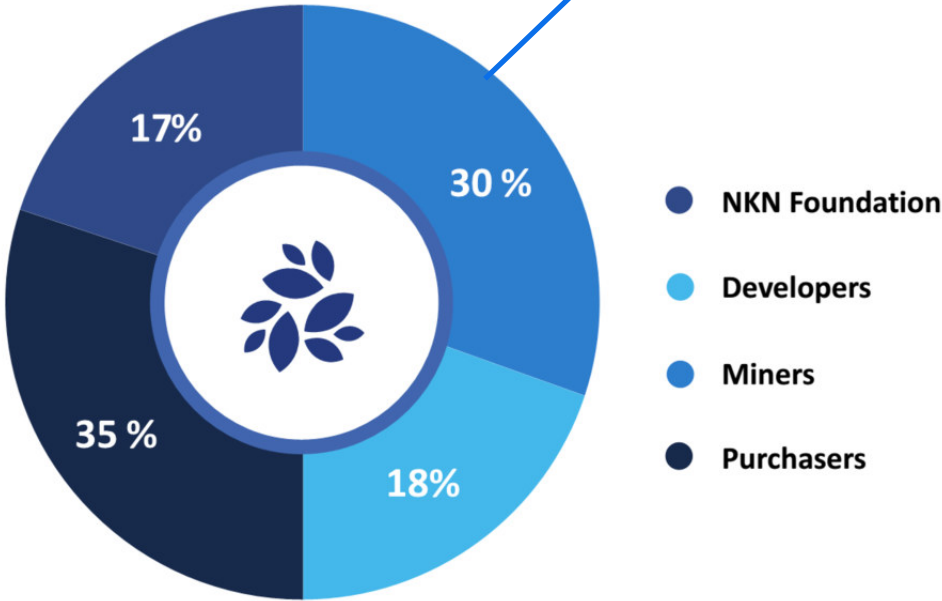
[More information](#)

ECOSYSTEM

Economic model, partnership, token metrics



Token metrics

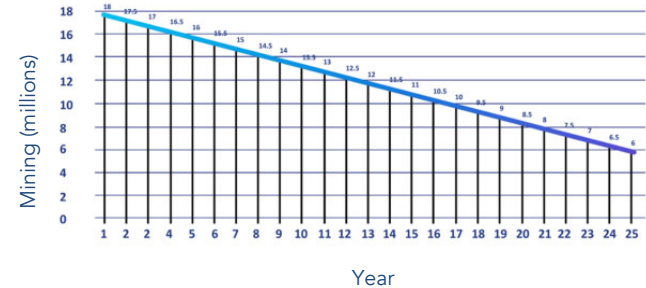


At genesis

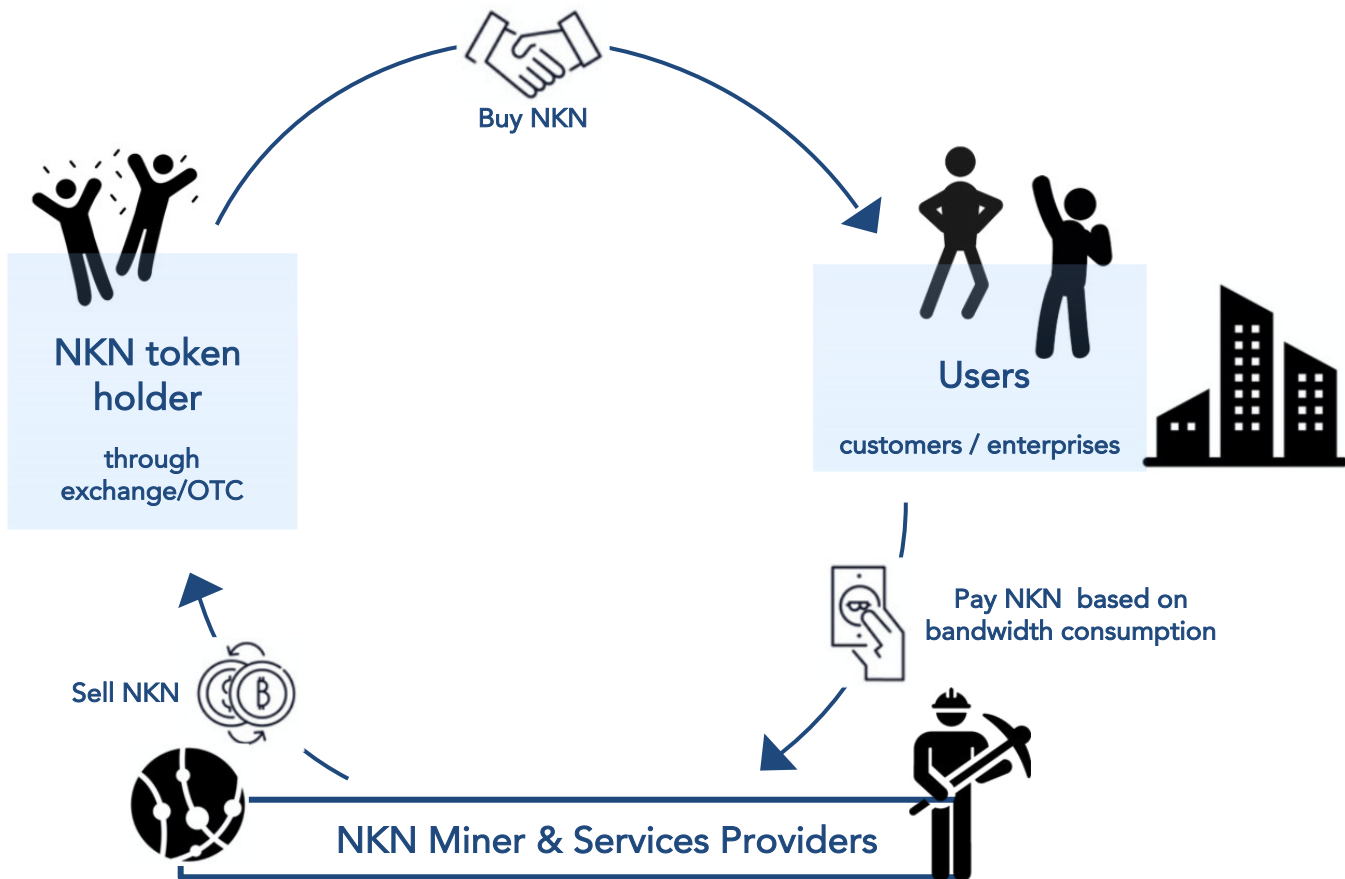
- **NKN Foundation:** strategic investment in building the ecosystem (17%)
- **Developers:** founding team, community developers (18%)
- **Purchasers:** purchasers of NKN tokens (35%)

Over 25 years

- **Miners:** get reward for traffic relay & block maintenance (30%)



NKN token utility and circulation model



Listed Exchanges



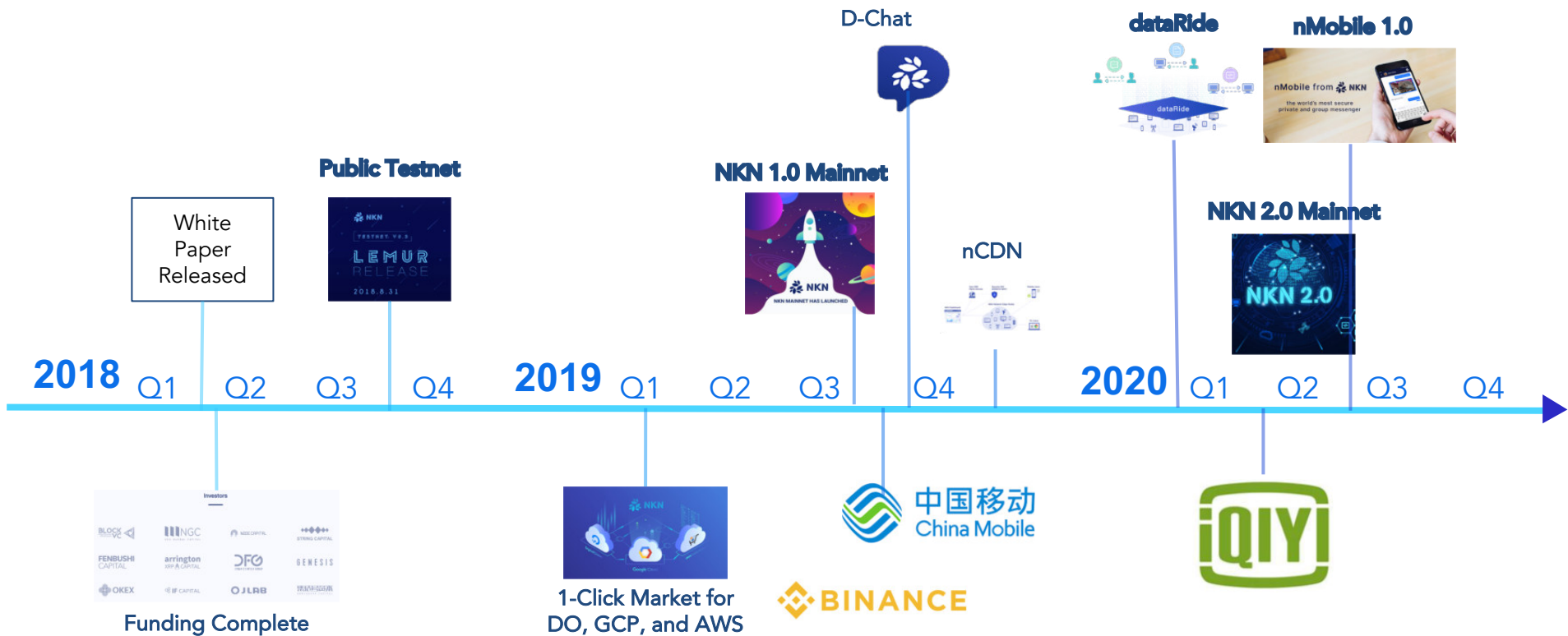
Strategic partners & alliances



Milestones & Roadmap



NKN Achievements Timeline (2018 - now)



NKN Roadmap beyond 2.0

Technology

Mainnet integration with exchanges and hardware wallet

Fast block synchronization

More client and wallet SDK supporting different programming languages

Remove limitation on fixed ports and single IP address per node

Support IPv6

Commercialization

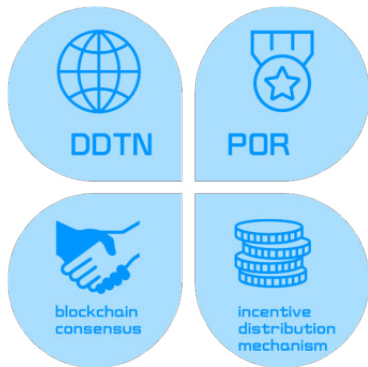
Pursue the addition of new crypto exchanges for NKN token holders around the world

Accelerate token circulation by growing business in dataRide and nCDN

Forge new partnerships for intergalactic communication infrastructure

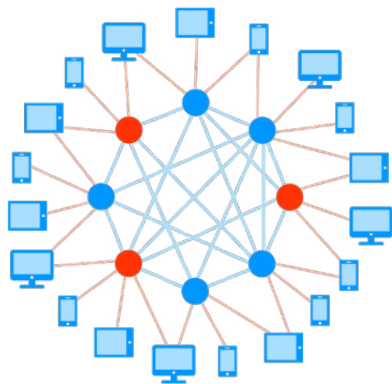
Expand nMobile, the extra secure server-less and trusted chat, to mainstream

Sponsor development community for significant applications utilizing NKN



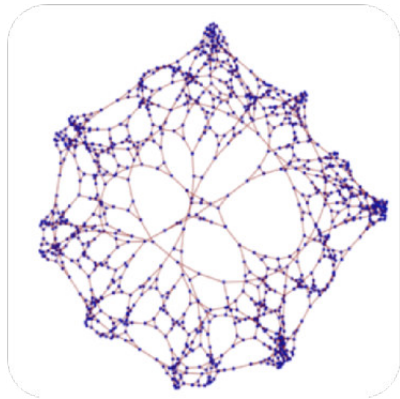
Blockchain DLT

Scale to billions of nodes
Proof of Relay
Micro payment
Instant settlement



Decentralized Cloud & Edge

True global reachability via NKN Address; Massively peer to peer data relay and caching PaaS
Smart scheduling & routing based on price, performance, utilization



Advanced Research

Self evolution of NKN network topology and routing
Using Cellular Automata for massive smart “pod” computational evolution and artificial intelligence

ABOUT

Project overview and core team



NKN Project overview



- NKN was founded in January 2018 by a group of entrepreneurs and engineers with many years of building networking and blockchain technology in companies like Google, Nokia, QCOM, Baidu, and OnChain.
- The ideal driving this team is that blockchain provides both technical and economic innovations to disrupt the networking business.
- The team has two sites, in Silicon Valley, California and Beijing, China.

Core team and advisors



Yanbo Li

Founder | Strategy &
System Architecture

ex-OnChain co-founder



Bruce Li

Co-Founder | Strategy &
Operations

ex-Googler & Nokia



Dr. Yilun Zhang

Co-Founder | Core
Researcher & Developer

Ph.D. Physics, UCSD



Allen Dixon

Business Development
& Compliance

ex-Nokia



Dr. Whitfield Diffie

NKN Technical Advisor

2015 Turing Award winner

co-inventor of public key
cryptography



Dr. Stephen Wolfram

NKN Technical Advisor

Author of New Kind of Science

Chief designer of Mathematica
and the Wolfram



Baidu-Owned Video Streaming Giant iQiyi Taps Public Blockchain for Performance Boost

"The joint effort marks a step forward in the development and interoperability of two emerging technological innovations, blockchain and edge computing, NKN said."



Case Study: NKN

"At the same time China Mobile was rolling out its 5G service, NKN began engaging with one of the largest Video Service Providers in China that have been experiencing phenomenal customer growth and looking for new ways to meet the growing demand."



Narwhal: NKN's New Mainnet Comes To Surface

"The Narwhal Mainnet is NKN's first step to create the world's largest permissionless public blockchain by number of nodes. The testnet already registered 13,000 full consensus nodes, and now the project hopes to scale it up to "millions if not trillions of nodes.""



An NKN Odyssey: A Billion Nodes with Dr. Zhang

"Let me be explicit: the current NKN node code, without any modification, will work with one billion full nodes without any problem."



Free the bits, rebuild our Internet.

<https://blog.nkn.org>

<https://t.me/nknorg>

contact@nkn.org

https://twitter.com/NKN_ORG