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Switzerland EOS Education & Development

EOS is an Exponential Operating System delivering a reliable Smart Contract Platform for high-grade Business decentralized applications

Education

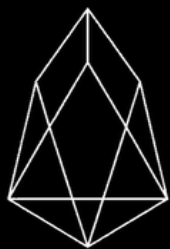
Development



EOS



EOS NATION
LAUSANNE



E O S

BLOCKCHAIN SWITZERLAND



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**EOS
NATION**



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**EOS NATION
GENEVA**



EOS NATION



Block Producer



Maintains and secures **EOSIO chains in the EOS Ecosystem**



Worldwide Team

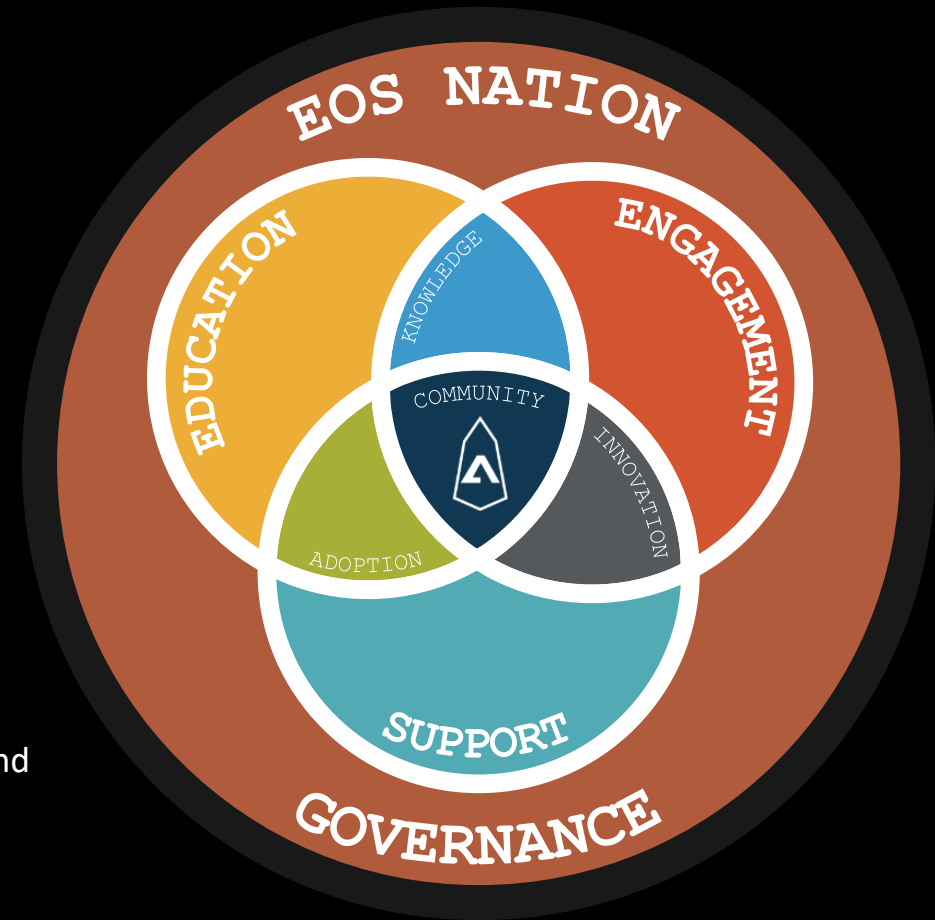


Working towards EOS adoption

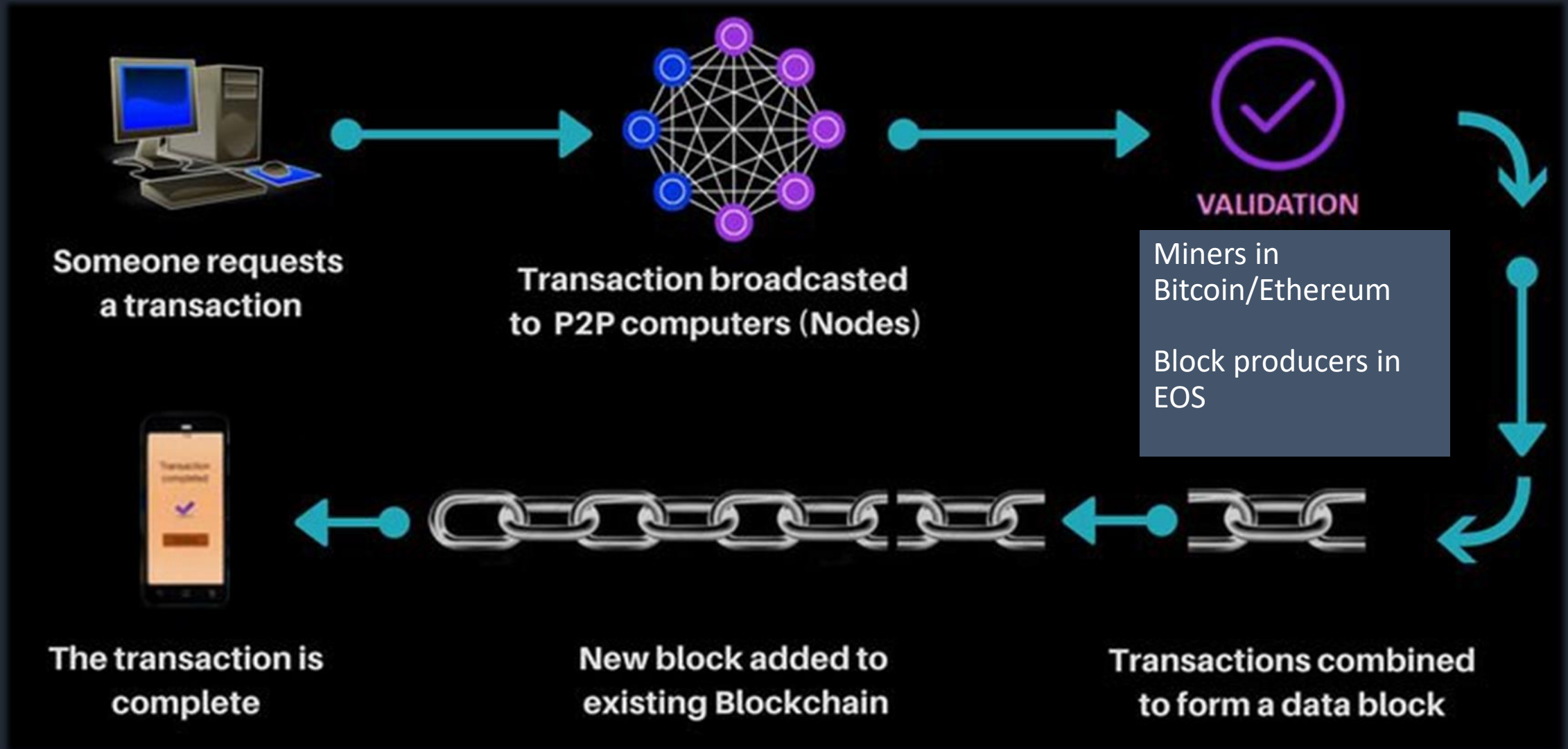


7 Founders, 4 Staff, 3 Interns and 16 Ambassadors

- + Educational events
- + Creating and sharing content
- + Sponsoring meetups, hackathons and conferences
- + Community engagement
- + Strong and reliable block production infrastructure



How a transaction is flowing in a Blockchain



Blockchain Characteristics

- Verification of transactions without having to be dependent on third-parties (**Desintermediation, Trustless**)
- Data cannot be altered or deleted (**Immutability**)
- Uses protected cryptography to secure the data ledgers (**Security**)
- The transactions that take place are transparent (**Transparency**)
- Transactions stored in the blocks are distributed to all computers participating in the chain (**Decentralization**)
- It removes the risk of duplicate entry or fraud (**Double spending**)
- Attacks are difficult, because the nodes are distributed among different infrastructures/location and jurisdiction. There is no single point of failure (**Resiliency**)
- With smart contracts, conditions can pre-set on the blockchain (**Self executable contracts**)

Consensus Algorithms

Used to confirm that transactions are valid on a Blockchain.

1st & 2nd generation: Proof of Work (PoW)

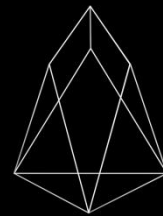
Requires the solution of a mathematical puzzle. **All the nodes have to compete.**



3rd generation: Delegated Proof of Stake (DPoS)

Users of a EOSIO Blockchain delegates their decision-making power to **elected** block producers (**nodes**).

By Dan Larimer, CTO Block.one – Virginia Blaksburg



EOS

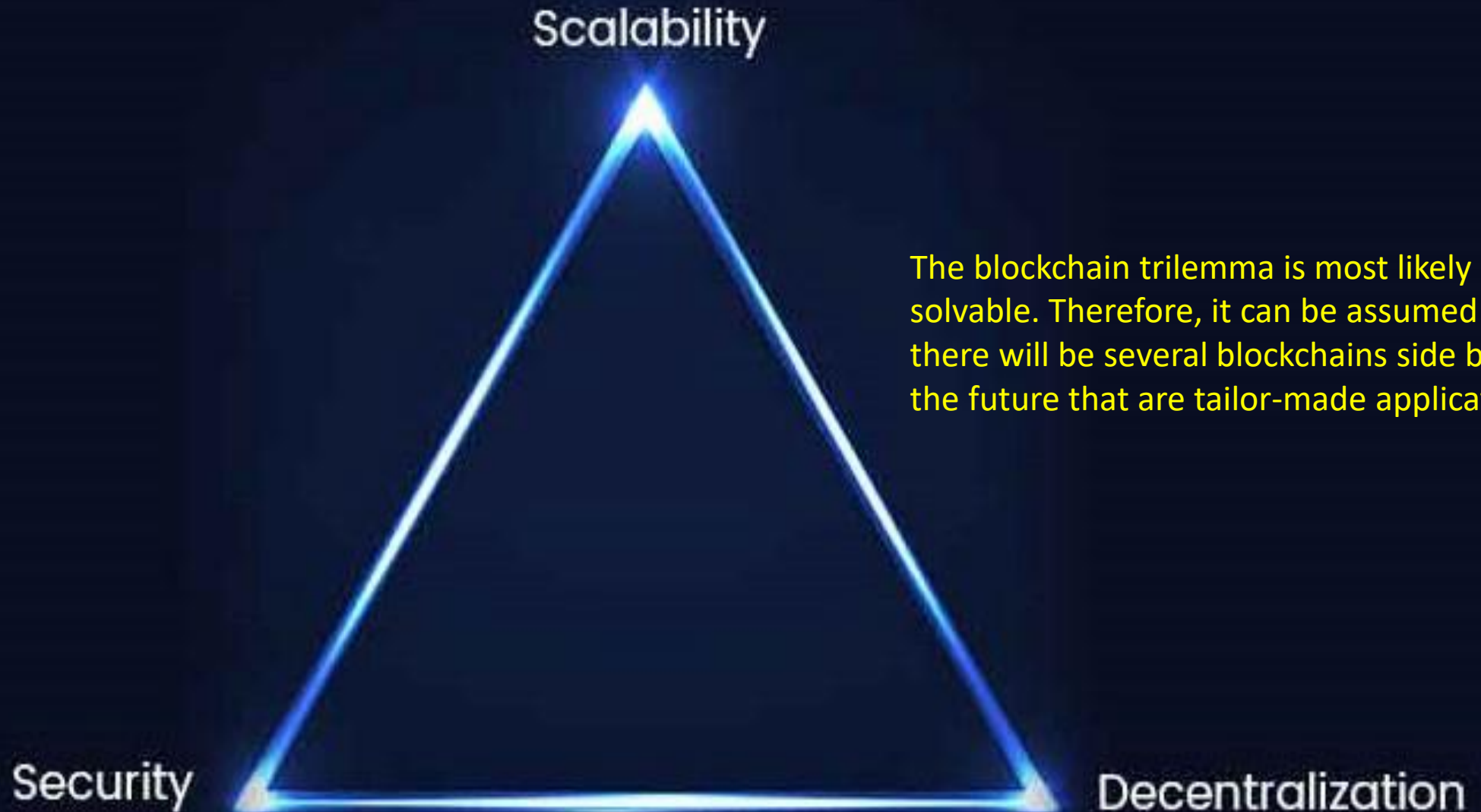


Bitshares



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Blockchain Trilemma



The blockchain trilemma is most likely not solvable. Therefore, it can be assumed that there will be several blockchains side by side in the future that are tailor-made applications.

dApp <> Smart Contracts

dApp	Smart Contracts
Desktop application (client-server, WEB UI) Mobile application	Connect a dApp with an EOSIO chain
Complete computer program (Business logic, the use-case to solve)	Small component of dApp program

What is EOS ?

- Scalable infrastructure that supports industrial-scale decentralized applications (dApps)
- Open-source and it was launched by the community
- “EOS MainNet” is one of many **EOSIO** networks being run by a decentralized group of Block Producers from all over the world
- Owning **EOS tokens** guarantees access to resources, like CPU (computational capacity), NET (bandwidth) and RAM (memory)



The EOS token is defined as a Utility Token

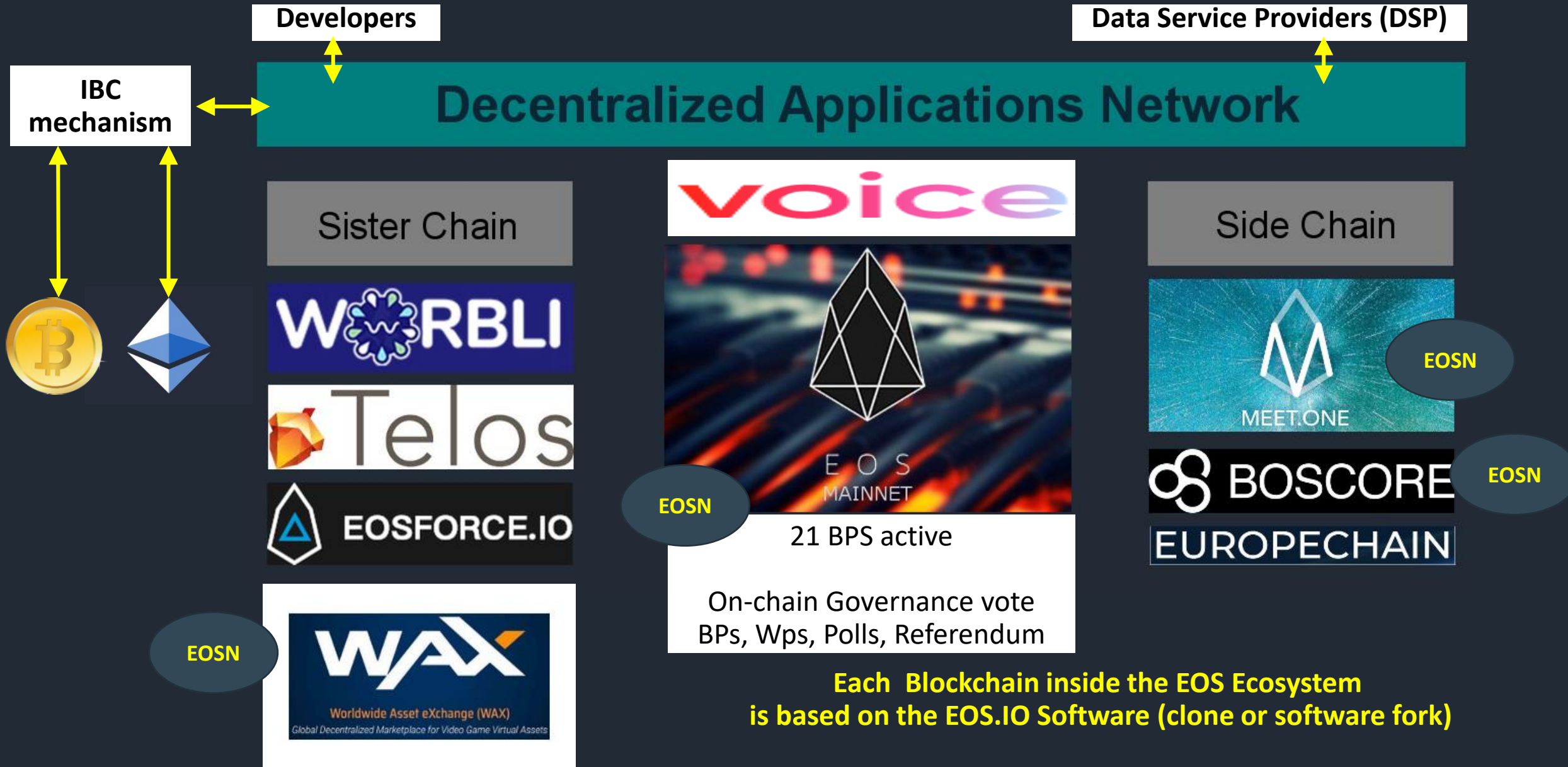
EOS features

- **For the users** : operations within the EOS Ecosystem are free of costs ← Watch video
(Smart Contract's **actions**)
 - **For the developers** : flexible Smart Contract (**Mutability, Immutability**)
dApp Network Middleware Layer | Inter-Blockchain communication(**IBC**)
programming languages interoperability with Web Assembly (**EOS VM**)
- High number of transactions (about 4'000 TPS on the EOS MainNet)
 - Governance on-chain vote (**BPs, Polls, WPS, Referendum**)
 - Carbon neutral (**Energy efficient**)
 - Big worldwide representaton (**Decentralized community**)

**Each EOSIO based chain
improves the EOS Ecosystem and helps breakdown the blockchain trilemma.**

EOS is a complex Ecosystem that is constantly improving and upgrading its various components.

EOS Ecosystem - Architecture



- **EOSIO version 1.8 UPGRADE 23th September** is required to launch the **Voice social network** and other planned decentralized applications.
- **In addition, after the upgrade**, a series of additional functions for developers will appear in EOS smart contracts.
- **RAM** resource management mechanisms will be optimized and users will receive additional protection against fraudulent activities.

DAPP NETWORK SECOND SCALING LAYER SOLUTION

- **EOSIO chains introduce** staking as means of accessing network resources such as CPU , NET, RAM
- **Instead** of incurring a recurring **monthly cost** in order to access these service packages, **developers** purchase **DAPP tokens up front**
- Developers **stake the DAPP tokens** for **the package of their choice (One to many DSP)**
- **DSPs** operate in a completely **free market** and have full autonomy when designing service packages, deciding on specifications such as the **package duration, quota of available actions**, and **minimum staking amount**, among other things.
- The **DAPP Network expands the capabilities of staking**
- **Turning it into a key that unlocks a range of service packages provided by DSPs**
- **As the staking economy continues to progress, staking for resources and services will become a dominant sub-sector with the potential to unlock a whole new era of dApp scalability.**

- EOS Nation **is a high-grade security DSP**
- EOS Nation deploys infrastructure across **two separate legal jurisdictions**, accessing different power grids and **different internet backbones** to ensure **maximum redundancy** and **maximum uptime**.
- Since the EOS MainNet launch back in June 2018, EOS Nation has proven itself to be a reliable EOSIO Block Producer, having produced over **500,000 blocks** with 99.991% round availability.



For DAPP Network services
visit dsp.eosnation.io

• Oracle • Stake • vRAM • Cron

Ethereum Challengers: **EOS**



*Delegated Proof of Stake.
ERC20 token swapped for
native token at launch.*

SCALABILITY

~15 transactions/second; PoS
& sharding will improve this

1000s of transactions/second at
launch. Millions w/ parallelization

GOVERNANCE

Similar to BTC, with additions
(e.g. Ethereum Foundation)

DPOS. Producers elected by token
holders & subject to constitution

DEVELOPMENT
COMPLEXITY

Solidity language; fixes &
updates hard to implement

Many languages supported via
WASM. Fixes and updates easy

TIMELINE

Scalability improvements
may take years

Release Candidate TestNet live,
MainNet launching June 2018

GENERALIZED FEATURES
(identity, authentication, file storage, etc.)

Intentionally avoided

Robust permissions, user identity,
storage, assorted other features

ADOPTABILITY

Not grandma-friendly, losing
keys is catastrophic, fees

Human-readable addresses, no
fees, key recovery, anti-hacking

MARKET POSITION

First mover advantage. Many
developers and \$\$ behind it

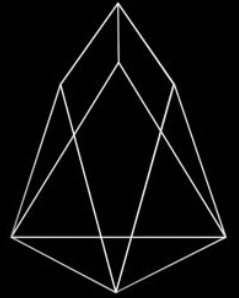
Billions of dollars, VC backing,
Everipedia and more apps

Source: bitgenste.in/eos



Platform applications (dApps)
with your EOS Account

Some applications inside the EOS Ecosystem



EOS



Lynx mobile Wallet – Mobile and Desktop Version

[Wallet](#) | [dApps portal](#) | [News](#)



sense.chat

Sense.chat

[Wallet](#) | [Secure messaging](#)



Everipedia

[The decentralized blockchain Encyclopedia](#)



Bloks.io

Block explorer


[The most powerful Block Explorer with MSIG support](#)

Scatter

Scatter

[Secure user identity to transact on the EOS blockchain](#)

Wallet Application



MEET.ONE
The Portal to EOS Ecology

EOS Wallet | DAPP Entrance | EOS News


Download on the App Store

GET IT ON Google Play



Smartphone display showing wallet details for user 'username1234':

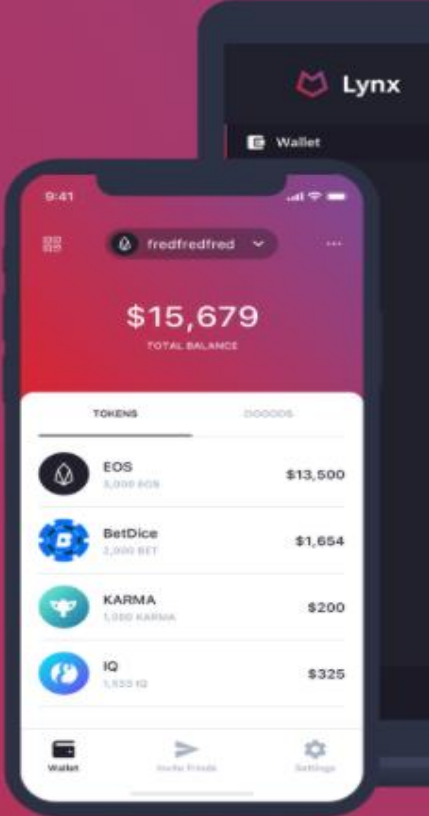
- username1234
- nobitTTTTTTT
- Total Assets: 32,376.03 EOS (≈ \$362,252.80)
- 可用余额: 32,344.00 EOS
- 已质押资源 CPU+NET: 32.03 EOS
- RAM: 2,344.00 KB
- 转账 (Transfer)
- 收款 (Receive)
- Token



A Whole New Wallet. On A Whole New Level.

The first crypto platform designed for the everyday consumer.

Download For Desktop



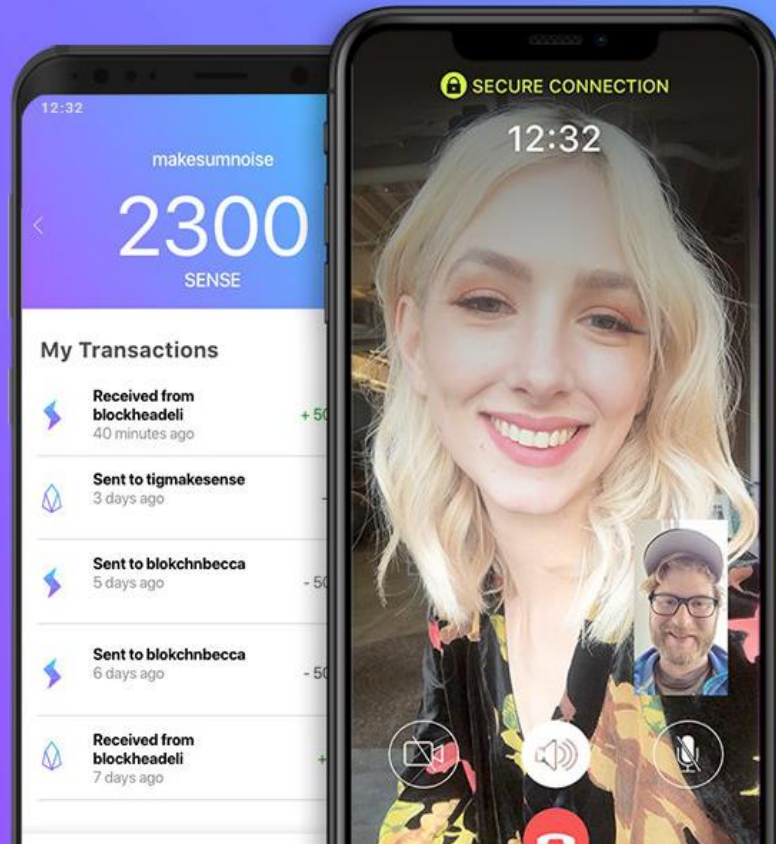
Smartphone display showing wallet details for user 'fredfredfred':

- fredfredfred
- \$15,679 TOTAL BALANCE
- TOKENS
- EOS 3,000 EOS \$13,500
- BetDice 3,000 BET \$1,654
- KARMA 1,000 KARMA \$200
- IQ 1,000 IQ \$325
- Wallet
- Market Prices
- Settings

Features :

1. **Transfer/Receive** EOS tokens by using the wallet
2. **Vote** for block producers (with staked EOS)
3. Access **dApps**
4. Read news

Sense.chat – Secure Messaging



What we will discover:

1. Transfer **Sense** and **EOS** tokens
2. Peer-to-peer secure messaging



[ERC-20 to EOS-21 Teleport Protocol Works, Move Tokens From Ethereum to EOS](#)

Secure transactions on the EOS blockchain

Block explorer

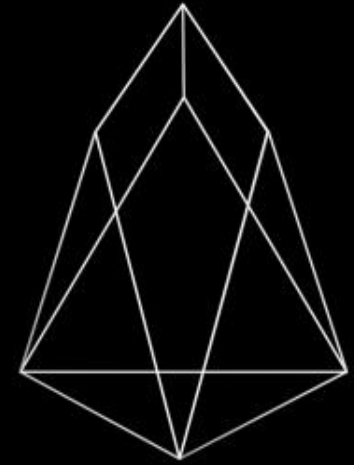


Bloks.io

This schema using Scatter to secure user identity is also valid for other EOS applications doing transactions via Internet.

User Secure Identity

The Scatter logo, which is the word "Scatter" in a blue, cursive script font.



EOS

Because Scatter is a desktop application
it makes phishing almost impossible.

<https://www.publish0x.com/eosmastering/eosmastering-talks-to-nsjamesscatter-xxzdy>

Everipedia

Wikipedia



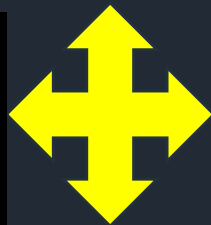
Features

- Central Servers
- No blockchain
- No model Learn + Earn

[IPFS SIMPLY EXPLAINED](#) ← Watch video

Everipedia

The decentralized blockchain encyclopedia



Features

- Online encyclopedia
- EOS + IPFS
- Over 6 million articles
- Including all articles from the English Wikipedia



EOSIO Smart Contract is flexible

Easy Upgrades and Bug Recovery

When all else fails and an "**unstoppable smart contract**" acts in an unpredictable manner

a blockchain using the **EOSIO software** allows the block producers to **replace** the account's smart contract **code** without hard forking the entire blockchain.

This replacement of the code **requires a 15/21 vote** of **elected block producers.**

EOSIO software - <https://developers.eos.io>



NovaCrypto

your decentralized apps platform

Social networks



Meetup groups

