

EOS

THE NEXT STEP IN SMART-CONTRACTS?

Presented by



DISCLAIMER

- We are NOT in any way associated with block.one, the company developing EOS code. We are just part of the emerging EOS community.
- We have no interest in you buying EOS tokens, and this certainly should not be treated as financial advice.
- Our goal is to encourage you to take interest in the concept and possibly consider building businesses on top of EOS.



WHAT DO DECENTRALIZED APPS REQUIRE?

Cheap to run

Free for the users

Easily accessible

No fancy cryptographic stuff

Account recovery

Privacy protection

Access to other blockchains

Upgradability

Bug recovery



WHAT'S NEEDED VS. WHAT'S AVAILABLE





BTC: 4 trxn/sec

ETH: 15-30 trxn/sec

BTC: 4 bln USD/year (12 mln USD/day)

ETH: 2 bln USD/year (6 mln USD/day)



SCALING SOLUTIONS AVAILABLE

- Moving transactions off-chain: state channels
 - Lightening Network in Bitcoin
 - Raiden in Ethereum
- Splitting the problem into smaller chunks:
 - Sub-domains within one blockchain (Ethereum's sharding)
 - Hierachy of sub-chains (Ethereum's Plasma)



WHAT IS EOS?

EOS is a general-purpose smart-contract platform, just like Ethereum.



EOS is the blockchain for building commercial scale decentralized applications that are indistinguishable from centralized alternatives.

Daniel Larimer, CTO of block.one



HOW DOES EOS WORK?

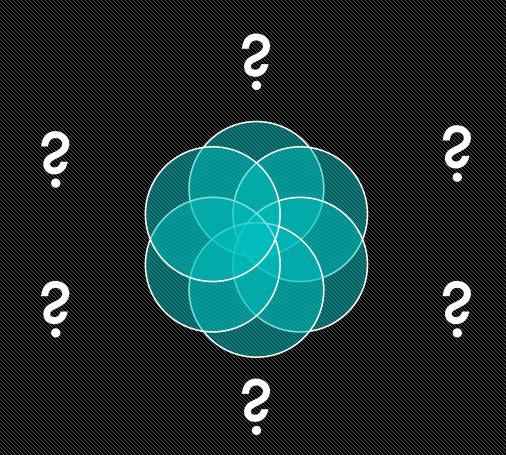
Applications

Operating System

Computer



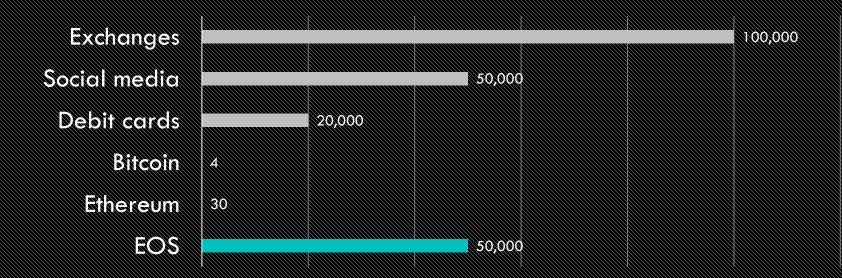
WHAT ARE EOS MAIN FEATURES?





#1 PROCESSING POWER

On day one: 50,000 trxns per second or more.





#1 PROCESSING POWER

- Sequential processing technology borrowed from LMAX exchange
- Parallel processing for horizontal scaling
- Consensus over events instead of consensus over state
- No need to count CPU operations



#2 BUILT-IN GOVERNANCE

- Consensus mechanism: Delegated Proof of Stake
- Block producers able to freeze & fix broken apps
- Built-in governance mechanisms:
 - Constitution encoded in the blockchain (legally binding)
 - Arbitration for resolving disputes
 - Shareholders voting on important decisions



#3 INFRASTRUCTURE FOR APPS

- Common/low-level features & services embedded in the blockchain: account permissions, account recovery, scheduling, authentication, inter-app communication, biometric 2nd factor validation
- Integrated storage solution based on IPFS



#4 NO TRANSACTION FEES

- EOS token is never consumed, no concept of gas
- If you own 1% of the tokens, you own 1% of the network
- You can own blockchain resources or rent them



#5 UPGRADEABLE APPS & MULTIPLE VMS

- Publish source code, not assembly
- Upgradable smart-contracts
- Multiple virtual machines



#6 ASYNCHRONOUS COMMUNICATION

- Everything is based on messages
- Cross-blockchain communication becomes possible

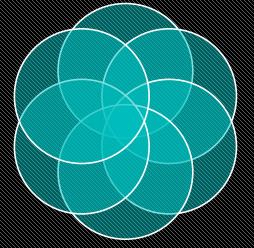


WHAT ARE EOS MAIN FEATURES?

Processing power

Asynchronous communication

Upgradeable apps & multiple VMs



Built-in governance

Infrastructure for apps

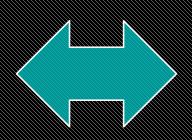
No transaction fees



EOS BACKGROUND

<u>Top-down</u>

Attempt to generalize something that you have not figured out how to build yet.

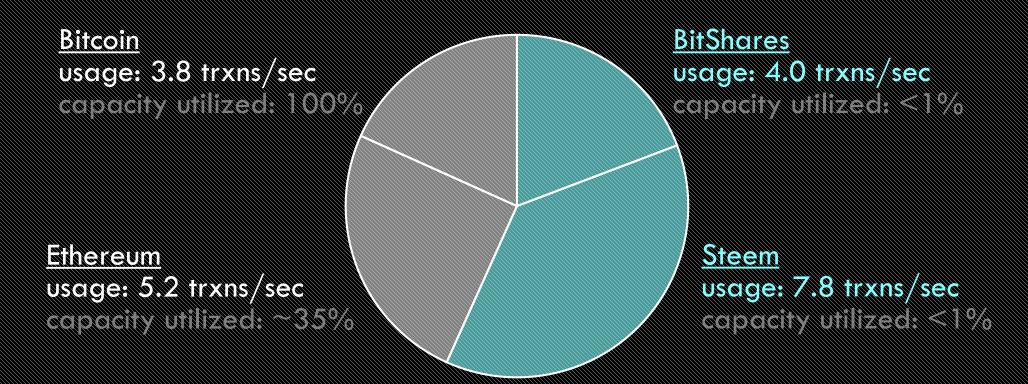


Bottom-up

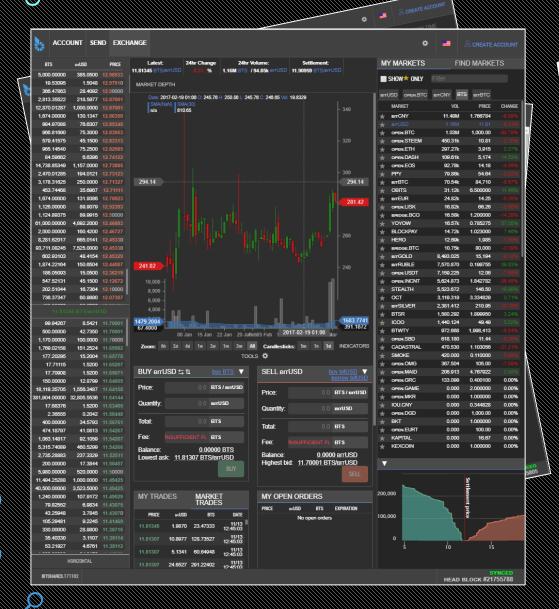
Figure out how to build something first and then start generalizing it.

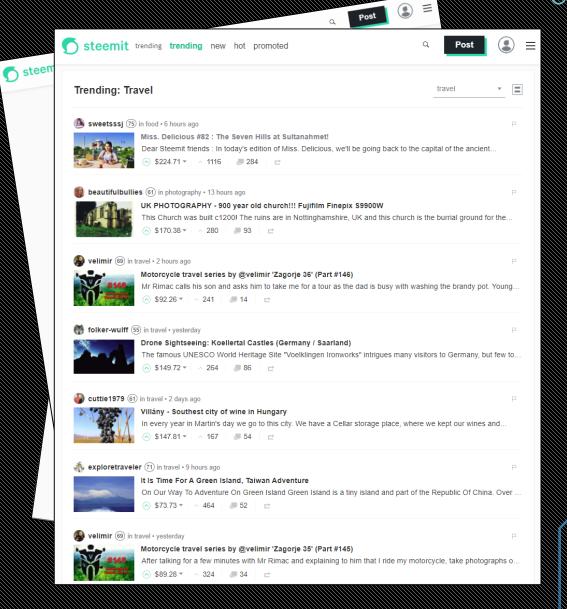


TOP FOUR MOST USED BLOCKCHAINS









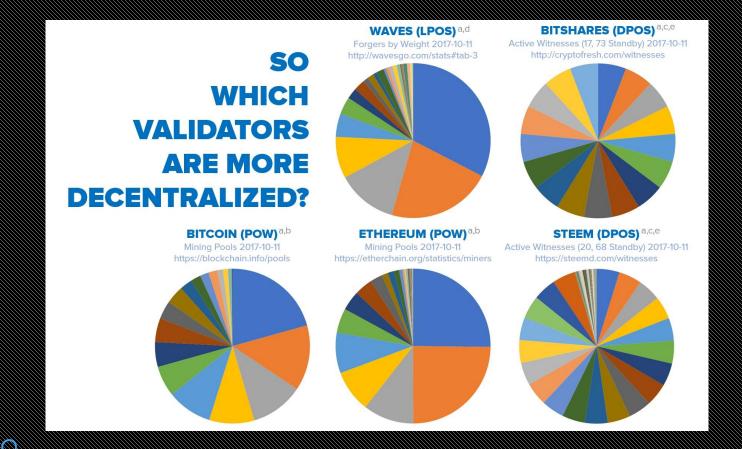


DELEGATED PROOF OF STAKE (DPOS) HOW DECENTRALIZED IS IT?

- Purpose of decentralization:
 - To make the system resilient against dishonest players on the inside and against attempts to shut it down from the outside.
- Measure of decentralization:
 - (1) How many unique entities are involved in producing 80% of the blocks?
 - (2) How resilient the system is to an attempt to attack it?



DELEGATED PROOF OF STAKE (DPOS) HOW DECENTRALIZED IS IT?





DELEGATED PROOF OF STAKE (DPOS) HOW RESILIENT IS IT?

- Very easy to replace non-performing block producers
- When in trouble, the system degrades in a graceful, detectable manner that is trivial to recover from
- Continues to function even when a majority of producers fail, or a large minority of producers go rouge



WHAT ARE THE STRONG POINTS?

- Very efficient team implementing a concept proved in practice
- Web Assembly as a virtual machine
- Strong financial backing: Brock Pierce & Bo Shen (Fenbushi Capital)
- Commitment to spend 1 bln USD to boost the ecosystem



EOS is the most well-funded project in history and we plan to soon announce a program for up to one billion USD of capital for EOS projects.

Brendan Blumer, CEO of block.one



WHAT ARE THE WEAK POINTS?

- Almost non-existent ecosystem
- Track-record of poor documentation
- C++ has a very steep learning curve
- Not live yet



EOS ROADMAP

Project started in Q1 2017

December 2017 public testnet

Q1 & Q2 2018 devoted to testing and building development tools & docs













MVP stage called EOS Dawn 1.0

January 2018 all major functionalities deployed The EOS blockchain goes live in June 2018, most probably with the parallel processing feature already enabled



EOS VS. DECENTRALIZED APPS REQUIREMENTS

Ethereum		EOS
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X	Free for the users	
?	Easily accessible	
?	No fancy cryptographic stuff	~
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X	Access to other blockchains	
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SUMMARY

- Incremental improvement to stuff that's already been proven to work
- Extremely business oriented
- Can other systems copy EOS solutions?



BLOCKCHAIN EVOLUTION

Payment system (Bitcoin)



Smart-contract system (Ethereum)



Operating system for decentralized applications (EOS)



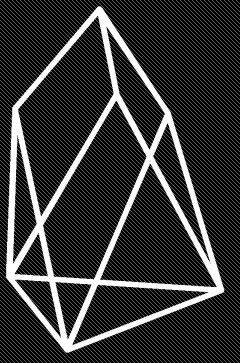
ABOUT TOKENIKA

- Focus on blockchain-based fundraising and digital asset management solutions, e.g. Neufund, Melonport, Iconomi
- Software house for building dApps (both on EOS and Ethereum)
- Aiming to be elected as one of the 20 block producers for EOS

WHAT DO WE NEED?

- Not looking for funding, looking for ways to spend money
- Looking for good ideas that can be converted into dApps
- Hiring developers with background in C++ and/or Ethereum smart-contracts





EOS - official website www.eos.io

THANK YOU

ANY QUESTIONS?

Presented by



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