

Innovation in the Blockchain

And its implications within current and future applications

By: Anthony Immenschuh

O1

Brief History of Blockchains and implications

O1 Bitcoin

- 1st blockchain
- Created in 2009
- PoW protocol

O2 Alt-coins

- Basecoin
- Namecoin
- Dogecoin

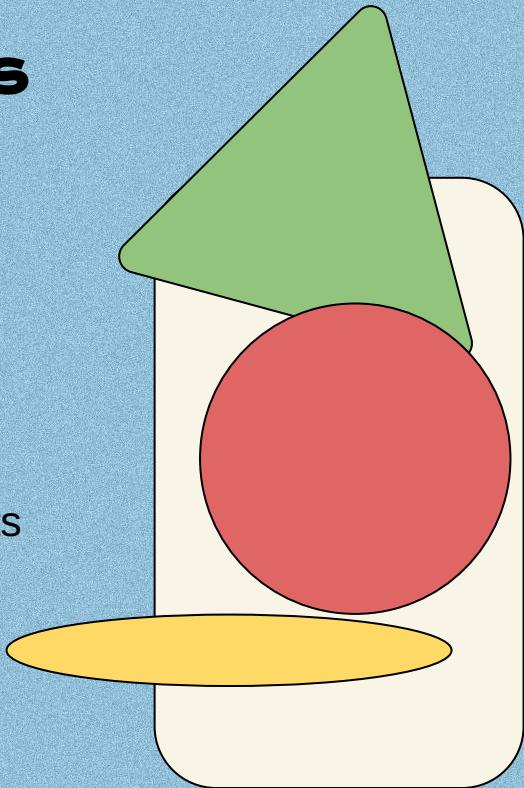
O3 Apps

- Silk Road
- OpenSea
- Storj

O4 ERC-20

- Crowdfunding
- Smart Contracts
- NFTs

O2



What exactly is ERC-20?

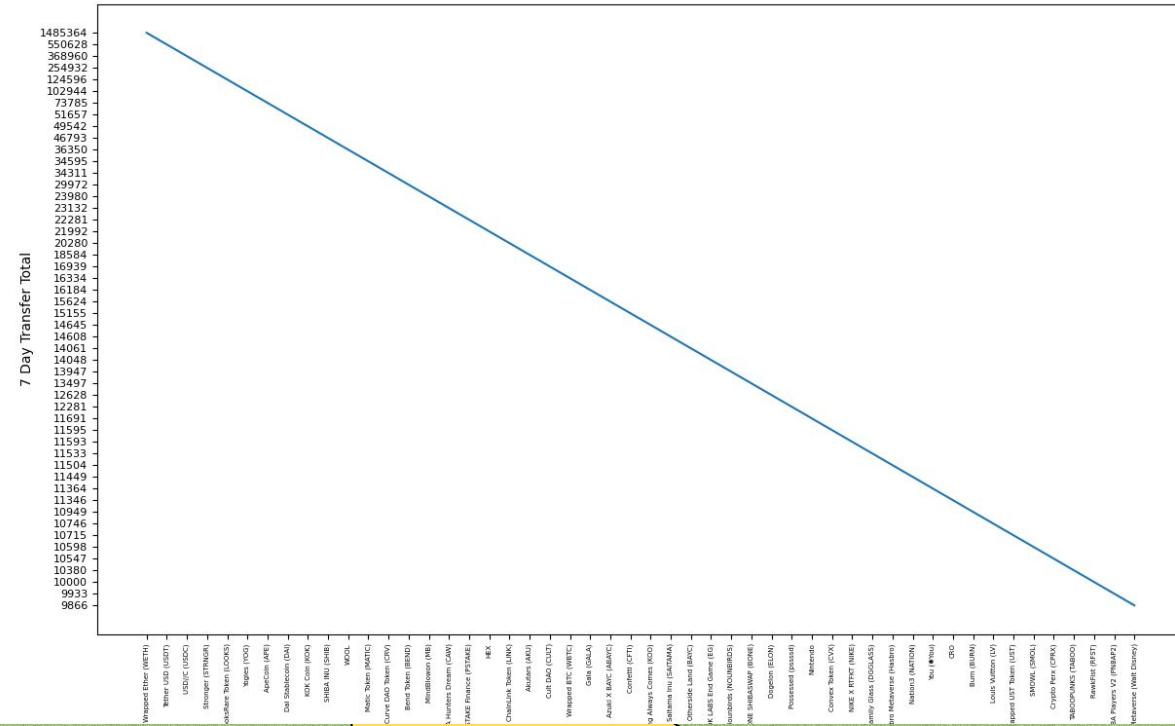
The smart contract standard

- Is a common list of rules followed to ensure compatibility between the many different tokens on Ethereum's network.

Fungible tokens

- ERC-20 tokens are fungible and identical.
- A direct contrast to NFTs, being non-fungible tokens.
- Have unique features due to their fungibility.

Popularity and Use of ERC-20



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Classification of ERC-20 tokens

Smart Contracts

- All ERC-20 tokens are smart contracts

StableCoins

- Wrapped coins
- Tether, USDT, USDC...

ICOs and DAOs

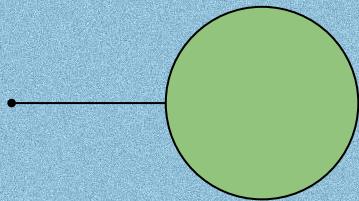
- Curve DAO Token
- Blockbuster DAO

Community

- Coins such as Apecoin, Shiba Inu, Dogelon, Storj Token

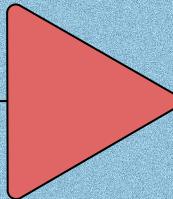
Applications of ERC-20 for today and the future

DAOs



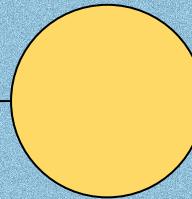
A Decentralized crowdfunding way to raise money.

dApps



Storj, De-fi applications, Games.

ICOs



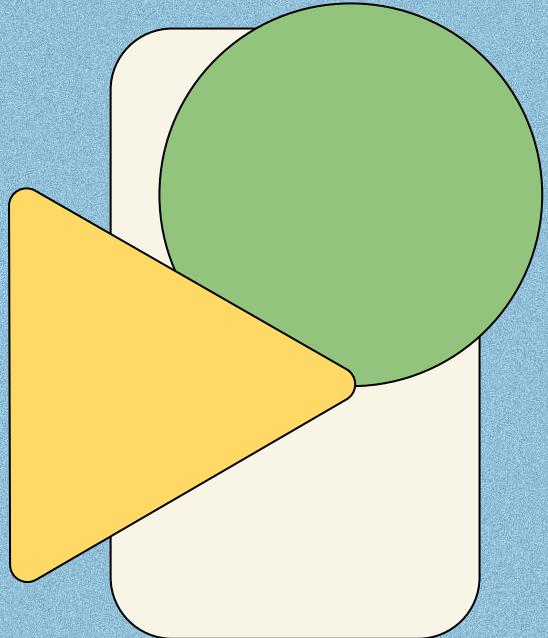
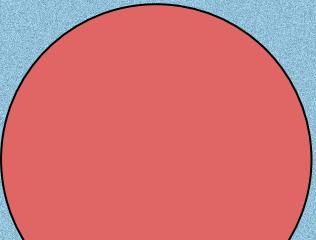
Similar to IPOs but offers a lower barrier to entry to create compared to IPOs.

What's happening in the blockchain currently?

Various innovations include:

- Blockchain as a Service (BaaS)
- NFTs and Smart Contracts
- Transition to PoS

These are currently being accomplished by companies such as Microsoft, Amazon, Deloitte, Ethereum, as well as various individuals.

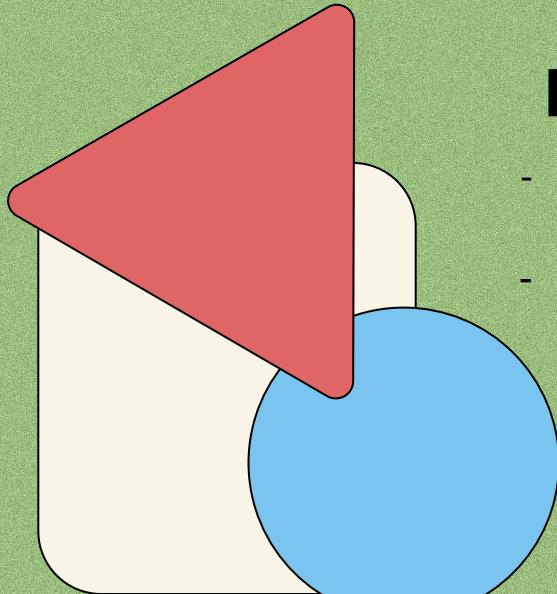


Transition from PoW to PoS within Ethereum



Short-Term

- Miners transition from mining to staking.
- Nodes will need to update to accept new transactions.
- Unable to withdraw staked ETH.



Long-Term

- Vast environmental impact.
- "...easier for individuals to become validators and thus participate in the network's potential for profit."



How will this transition effect the ERC-20 tokens and NFTs?

Smooth transition (The Merge)

“As Ethereum transitions to its new protocol...All of the smart contracts, coins, and NFTs that exist on the current chain would be automatically duplicated on the forked, or copied chain.”

Less Smooth Transition

“... another risk is that a group of disgruntled miners could decide to create a competing chain.”

Future Implications

Blockchain

Segwit and Block Size increase.

Sharding and Proof of Stakes.

Apps

New decentralized software.

Data Provenance.

Citations (labeled by slide)

2)

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