

Endur.io

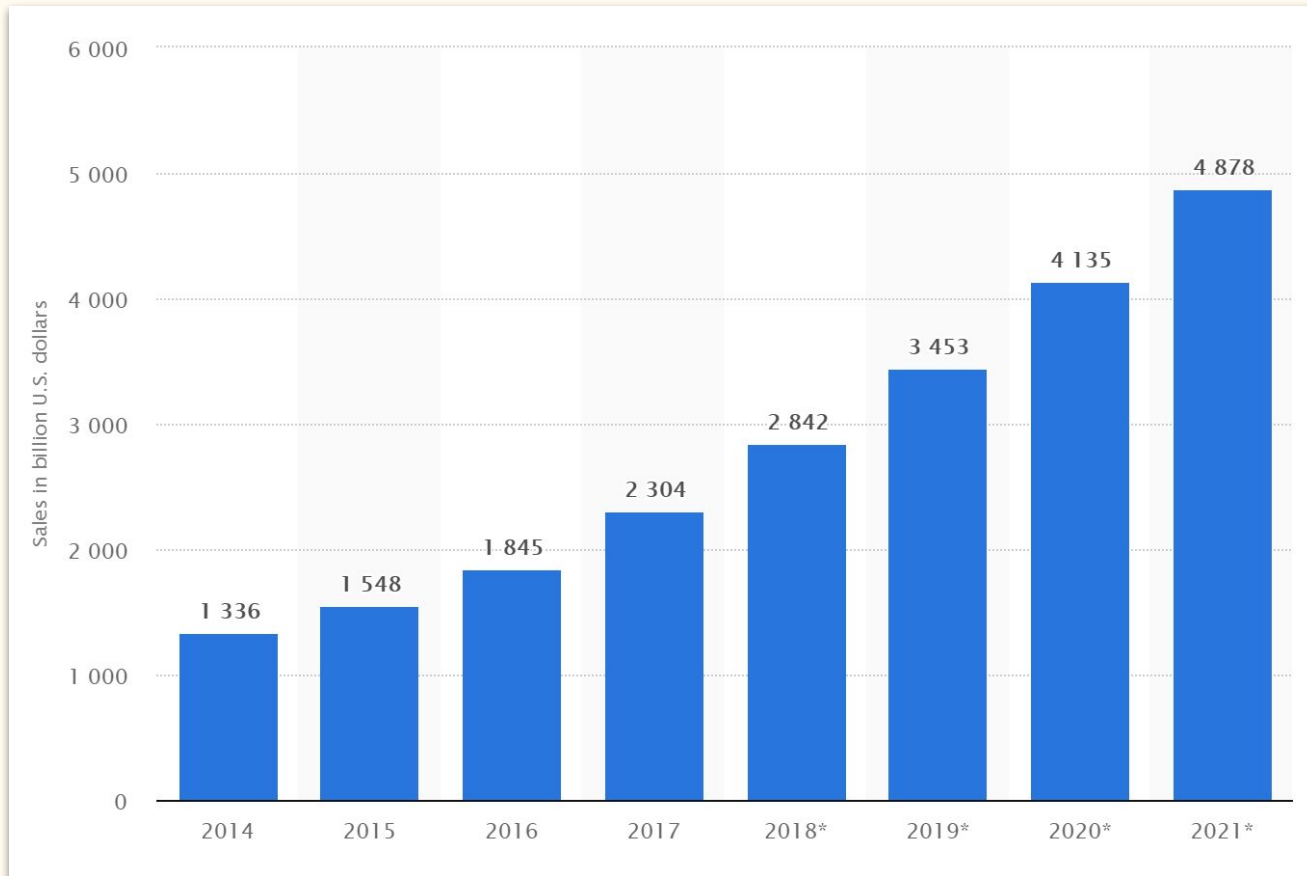
A Scalable Price-Stable
Cryptocurrency
with Autonomous Elastic Supply

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Endur.IO – Who are we?

- Antony Pham: CTO, Founder;
Blockchain advisor of Nexty Platform.
- Anna Doan: CFO; FRM & CFA charterholder.
- Thanh Dao: community advisor; CTO of Nexty Platform.
- Michael Chu: cryptoeconomics & blockchain advisor;
CEO of Midas Protocol.
- Bitcoin Benny: blockchain incubator & crypto influencer.

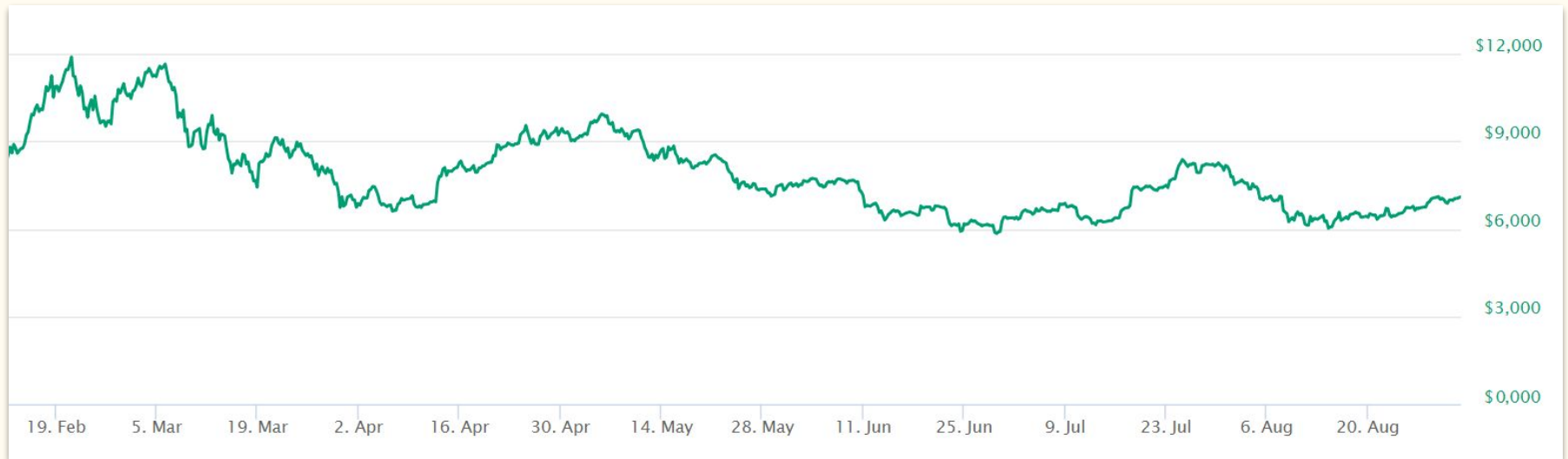
Bringing cryptocurrency to daily retail & e-commerce



Retail e-commerce sales worldwide

Problems (1/3)

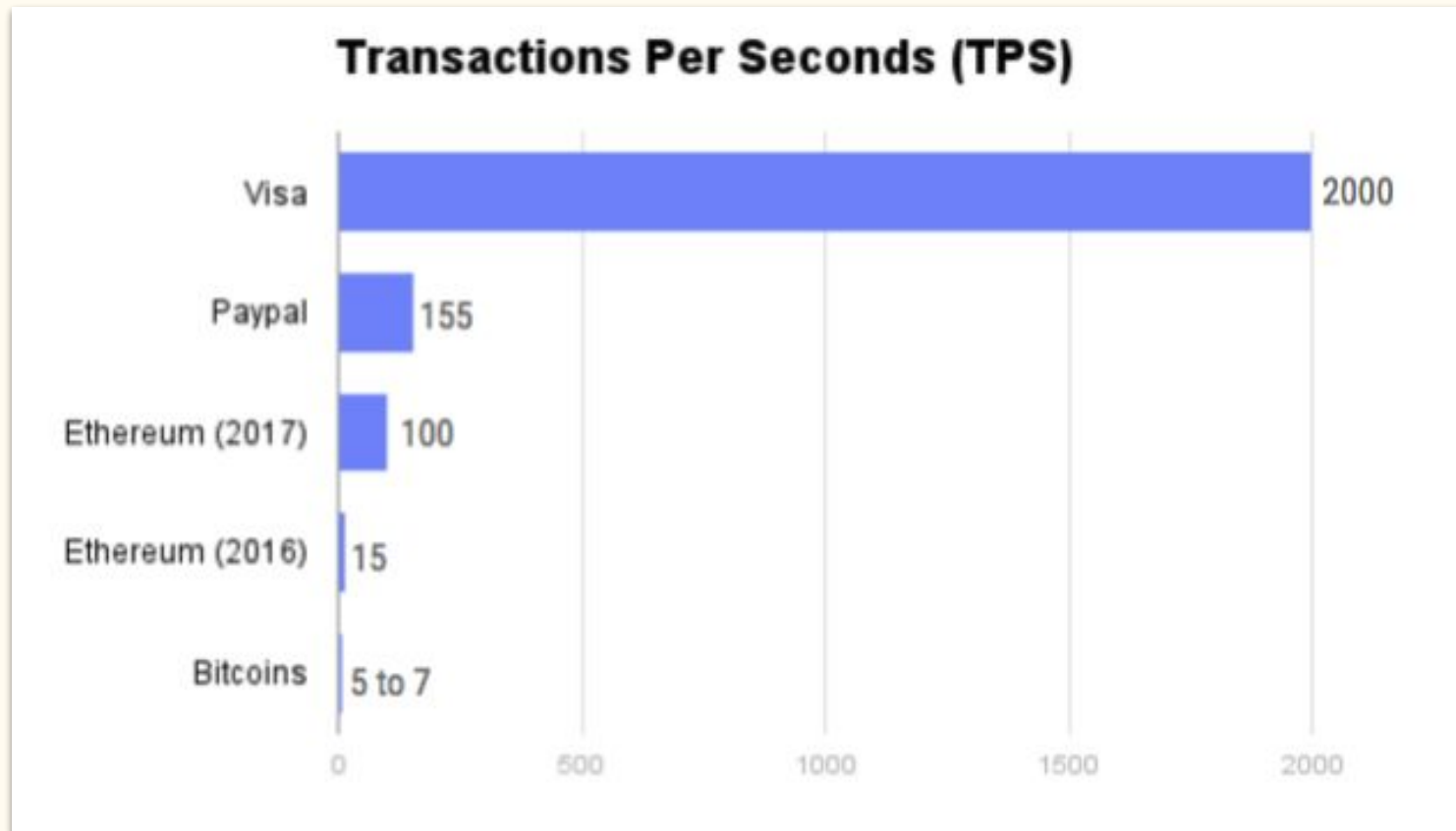
Fluctuated Price



BTC price in the last 6 months

Problems (2/3)

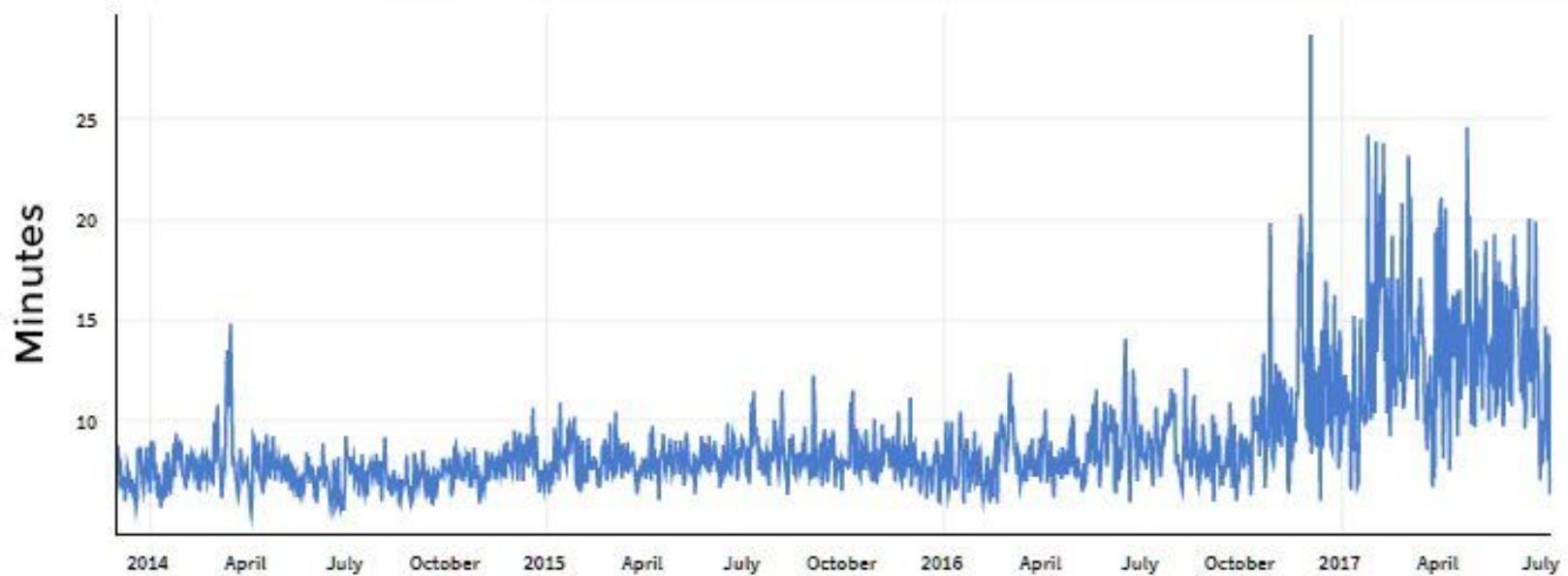
Scalability: Low transaction throughput & High transaction fee



Problems (3/3)

Long transaction confirmation

BITCOIN MEDIAN TRANSACTION CONFIRMATION TIME



Solution (1/3): Seigniorage Shares

Separate the currency into 2 tokens, one takes all price fluctuation, leaves price stability for the other; each has own intended purpose:

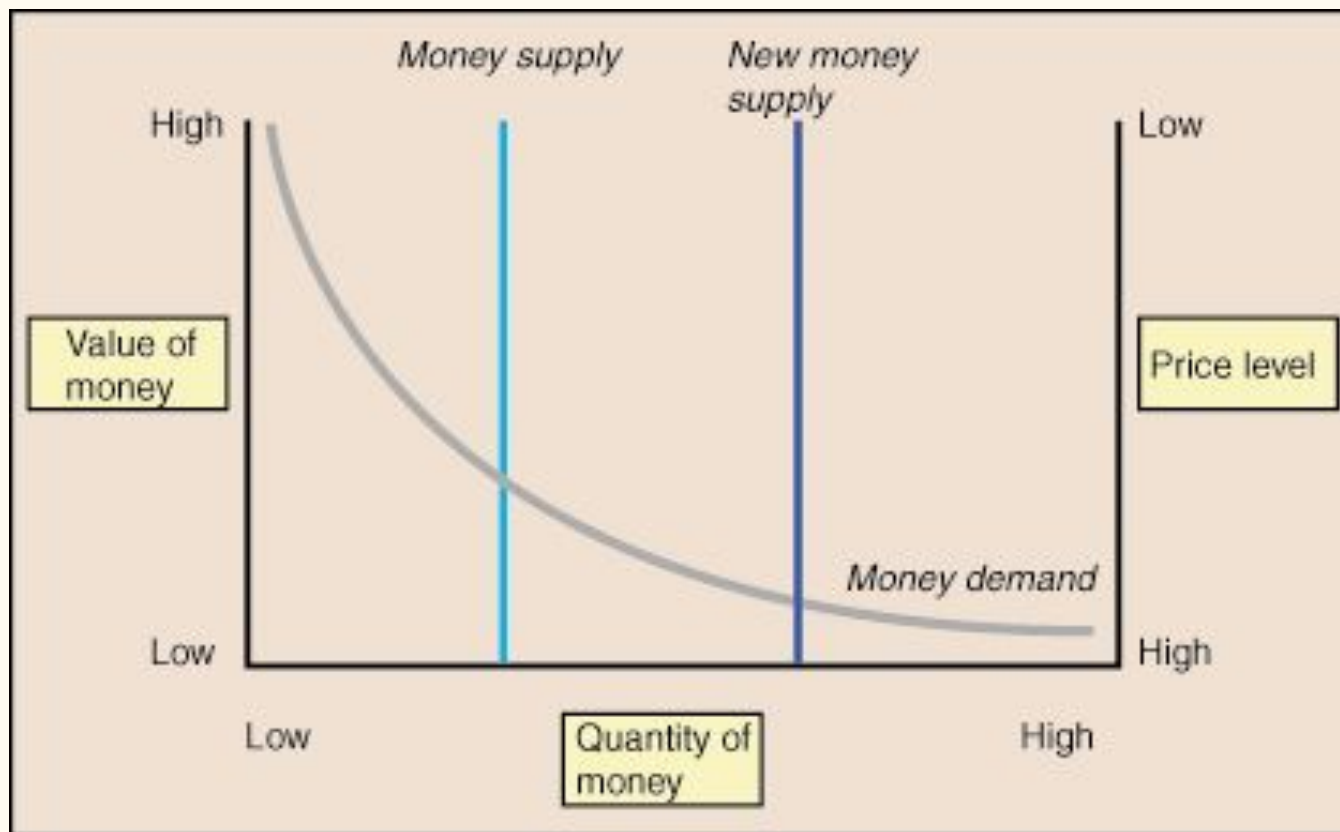
- NDR: High Risk - High Reward token for investors and traders,
- STB: No Risk - No Reward **stable-token** for commercial users.



Ref:

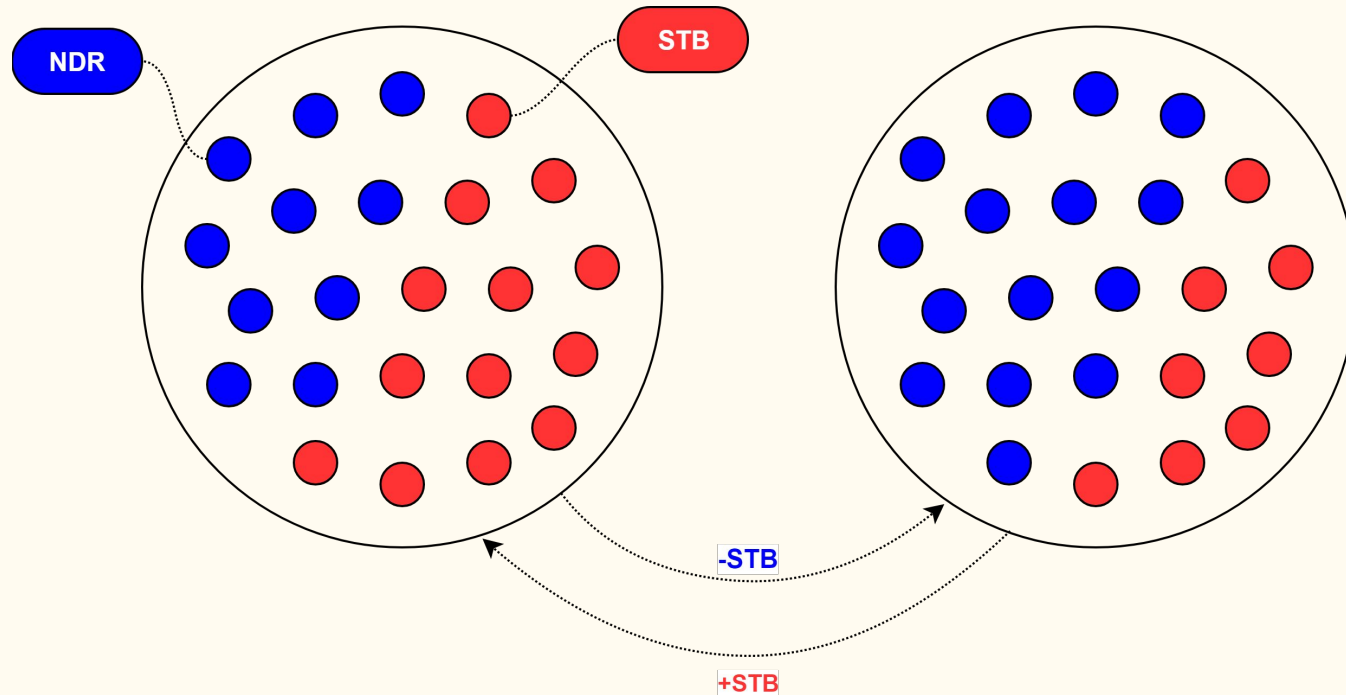
<https://bravenewcoin.com/assets/Whitepapers/A-Note-on-Cryptocurrency-Stabilisation-Seigniorage-Shares.pdf>

Solution (1/3): Seigniorage Shares



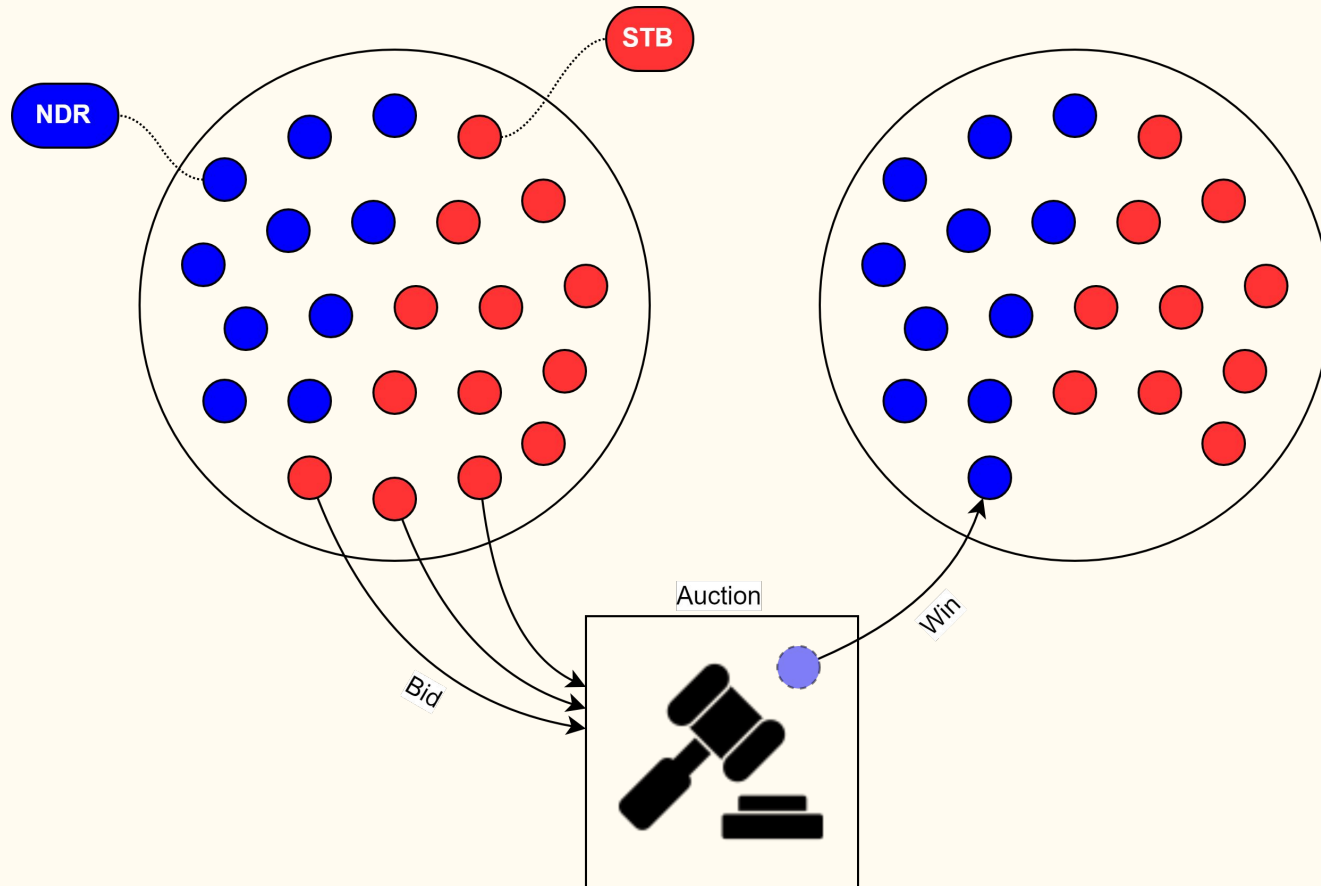
The Quantity Theory of Money

Solution (1/3): Seigniorage Shares



Token Contraction and Expansion

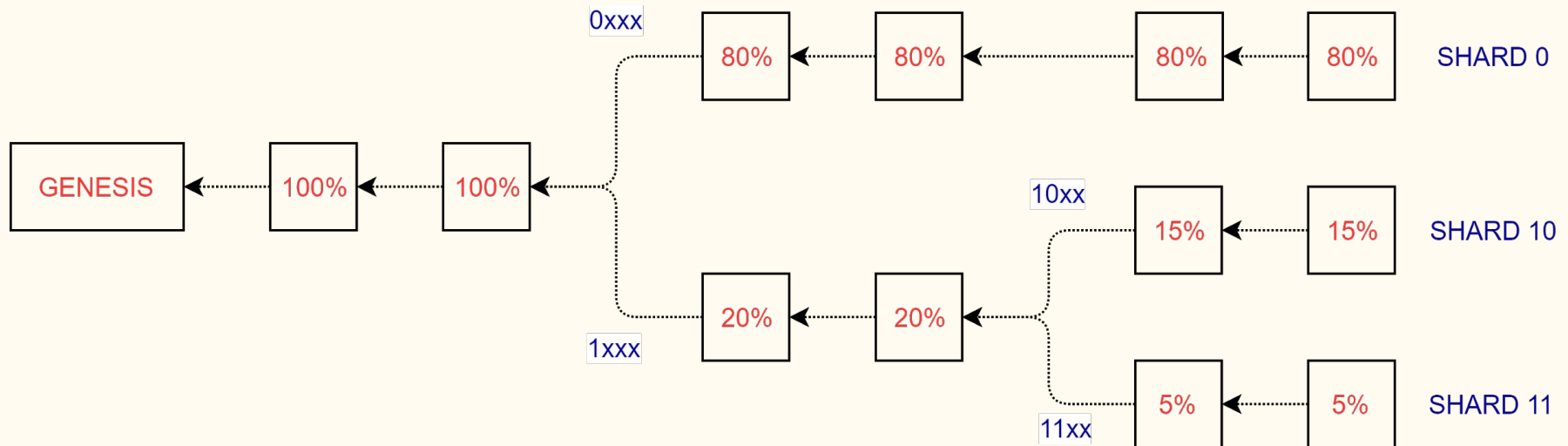
Solution (1/3): Seigniorage Shares



Auction for Market-Driven Exchange Ratio

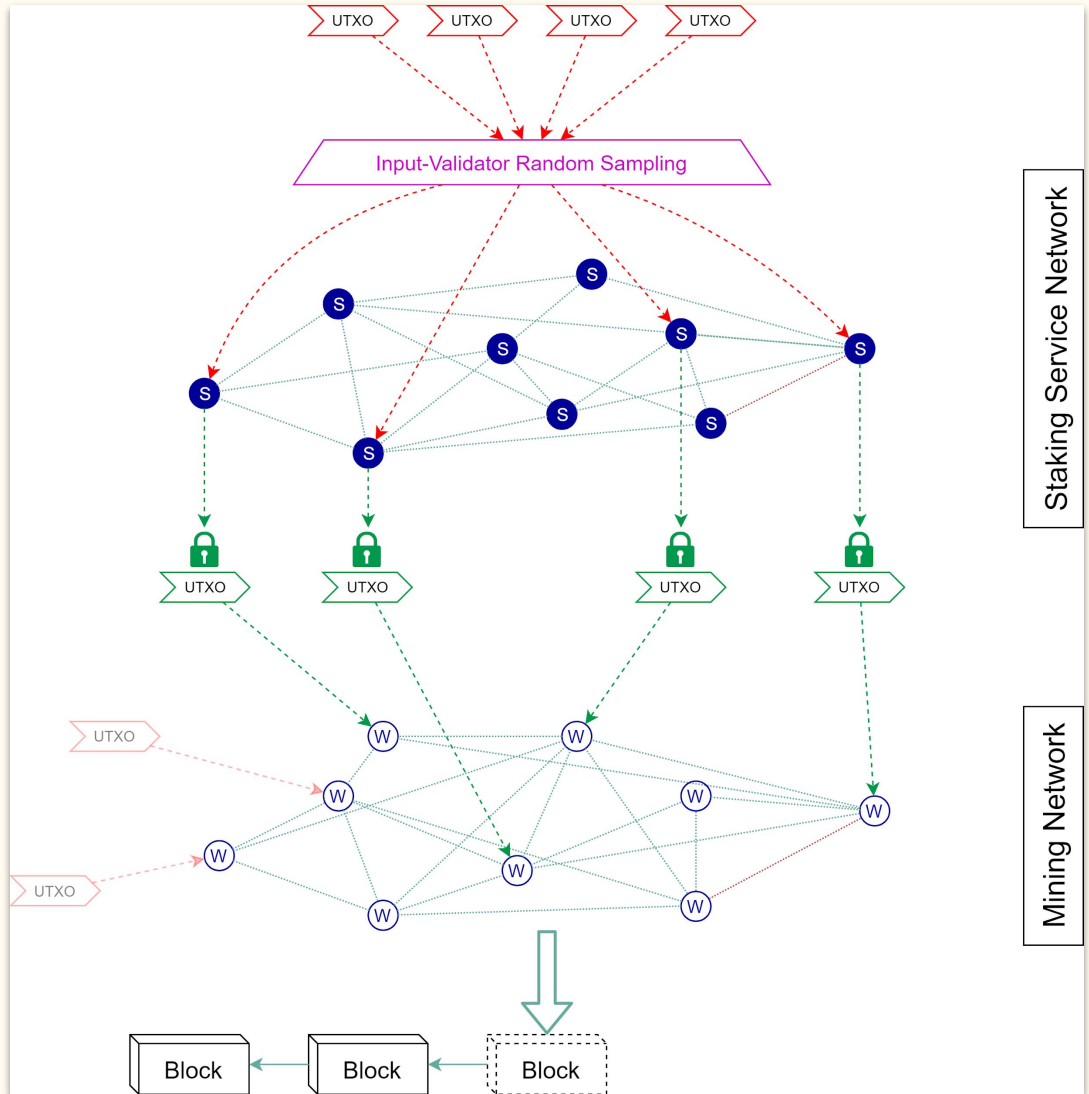
Solution (2/3): Economic-driven Sharding

Shard the blockchain to any level of adaptation.



Solution (3/3): Transaction Input Locking

Lock input for
every transaction



Advantages

(If that is so simple, why hasn't anyone done it already?)

1. Collateral stablecoins (USDT, BitUSD, DAI) are not scalable.
→ There's no successful non-collateral stablecoins so far. We have a vision to be the first one.
2. Altcoins/sidechains did “the sharding” first, and it works for 7 years.
→ We formalizes it in an economic-driven protocol, instead of pure technical protocol likes others (Ethereum).
3. DASH's InstaSend did the Input Locking first, but it's not mature.
→ We decentralize it, provide 100% warranty of double-spend protection, and for all transactions.

Tractions & Market (1/2)

- People want to get out of Tether because it's centralized and requires trusted 3rd-party.
- DAI price increased (above \$1) each time ETH price is down, showing that the market demand is much higher than the supply it can provide.



- Nations with weak currency seek a stable crypto-asset to strengthen their economy.

Tractions & Market (2/2)

- Percentage of people are willing to use crypto-currencies in online purchase:
 - USA: **40%**
 - European: **35%**
 - Turkish: **53%**
 - German: **11.4%**
- Gamers (in Korea) have reported that they purchased or traded games on the blockchain: **44%**
- Retailers who are considering accepting cryptocurrency as a mean of payment (1-3 years from now): **12%**
- People expecting to pay their bus fare using cryptocurrencies by 2025: **50%**

Benefit for Investor

- NDR token supply is used to create new STB on demand. The wider the STB is adopted, the higher price of NDR will rise. Since the adoption of STB is based on usability, not for profit, so the demand is not as volatile as pure-investment asset.
- When the crypto market is down turn, people will seek stablecoins to purchase to avoid the price storm. This effect will negate the down turn of NDR itself, and allows NDR to rise even in the downtrend of crypto market.
- NDR holders can join the SSN to serve the network for a portion of block reward and transaction fee.
- NDR holders can vote for development & policy of the network.

Token allocation

Premined NDR will be distributed to:

- Founding team: 25%
- Fund (private and ICO): 55%
- Reserve: 20%

We need 7 million USD (for 55% of premixed tokens) to cover 2 years of development:

- 3 million for research & development
- 4 million for community development & market expansion

Q & A

Competitions (1/3) – Seigniorage Shares

1. Basis (bascoin) uses 3 tokens:
 - Shares: Low risk - high reward
 - Bond: High risk - low reward
 - Basis: price-stable

Bond is not a reliable asset to serve contracting purpose.

2. Fragments

Limited on Ethereum.

3. Carbon

Based on Hedera Hashgraph, a permissioned DLT, not a public blockchain.

Competitions (2/3) - Sharding

Ethereum 2020 Sharding is pure-technical sharding protocol:

- Most of the transaction is cross-shard, so they are expensive and hard to be quickly finalized.
- Still have full nodes and super full nodes, which store all the states of all shards. There's no information yet how to scale those nodes.
- Fixed number of shards.

Endur.io Sharding is an economic-driven protocol:

- Most of the transaction is local to one shard, so they are cheap and effective.
- No full node nor super full node, every nodes is working on 1 shard only.
- Unlimited number of shards. New shards are created on demand of the network.
- Works since 2011 (the first altcoin).

Note: Zilliqa is not state sharding, it's load balancing.

Competitions (3/3) - Instant Confirmation

Quick confirmation by small blocktime: dPoS, permissioned consensus, etc

- Weak on one or more aspects of the trilemma: security, decentralization or consistency.

Master Nodes Input Locking:

- Only lock on demand, with higher fee.
- Base on high probability, not 100%. There's still chance that the locked Tx is double-spent, and there is nothing Master Node can do about it.
- No on-chain data for audit and prevent history forging.
- Becoming more and more centralized due to high entry fee.

References

<https://safexnews.net/the-adoption-of-cryptocurrencies-and-the-growth-of-e-commerce/>

<https://bravenewcoin.com/assets/Whitepapers/A-Note-on-Cryptocurrency-Stabilisation-Seigniorage-Shares.pdf>

Landing page: endur.io

White Paper: endur.io/wp.pdf

Staking Service Network Technical Paper: endur.io/ssn.pdf