Hybrid Blockchain: Looking at the usecase of XinFin

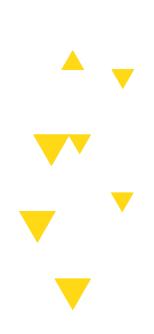
Alan Lai Atul Khekade





Presentation Outline

- What is Hybrid Blockchain
- 2 Current Projects
- XinFIn Overview
- XinFin Purpose/Business
 Case
- **SinFin Technical Section**







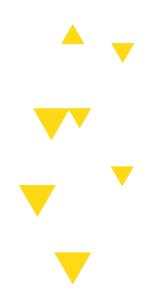
What is Hybrid Blockchain







- Completely open for anyone to join to execute the consensus protocol and maintain the shared ledger.
- Users join because there is incentive to maintain/interact with this protocol (eg. mining rewards and decentralization).
- Main concerns with Public Blockchain
 - Visibility- Data is very transparent, Everyone can see it.
 - Resource Proof of work is very expensive
 - Scalability Transactions are limited due to most consensus protocol
 - Security Limited of protection of the network







- An invitation is required and must be and must be validated by either the network starter or by a set of rules put in place by the network starter.
- Generally a permissioned network Restrictions on who is allowed to participate in the network, and only in certain transactions.
- How private blockchain can "solve" public chain issues
 - Visibility- Limited amount of people have access to ledger
 - Resource Does not solve directly (Must find alt. consensus mechanism)
 - Scalability -Requires less extensive consensus mechanism (trusted network)
 - Security Does not solve direct but limited participants makes it harder







Hybrid blockchain offers the benefits of both public blockchain and private blockchain

 The goal is to have a public blockchain as the "mainchain" where everyone is a part of connected to a private blockchain that is permissioned and has limited access.







- Currently, Hybrid Blockchain is mainly being developed to create a Enterprise-Ready Blockchain.
 - Governments, Banking, Global Fiance, Businesses
- Highly regulated enterprise and governments are unwilling to attempt to use blockchain because of the concerns of public blockchain.
- Using hybrid blockchain, they are able to have more flexibility and control over the entire network while reaping the benefits of a blockchain.













Current Project







"Hyperledger is an open source shared exertion made to propel cross-industry blockchain innovations."

Hyperledger Fabric: "The de-facto standard for enterprise blockchain platforms."

- Permissioned Network
- Confidential Transaction
- Pluggable architecture



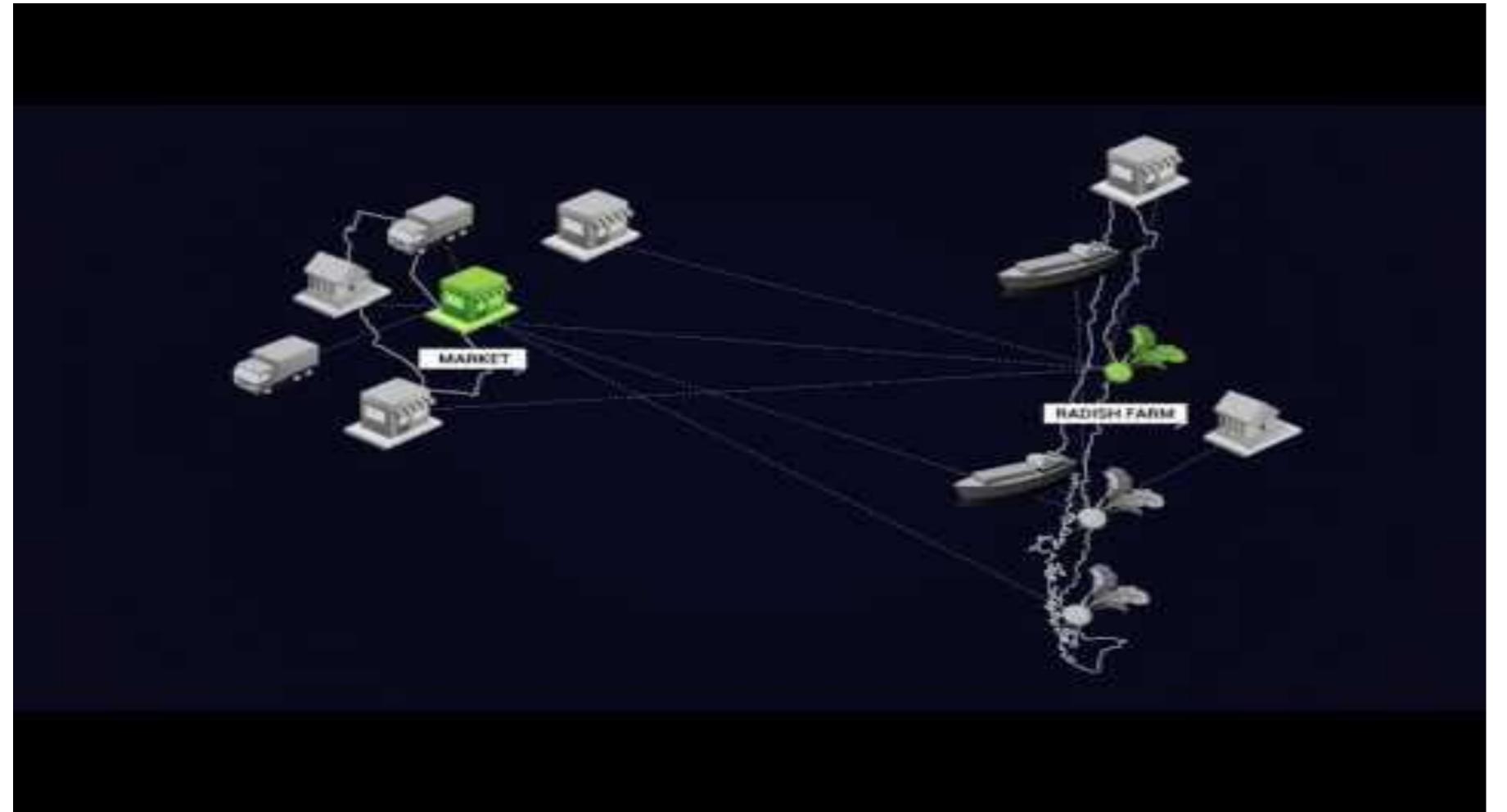






Current Projects

Hyperledger









- Ripple's technology is enterprise ready and can handle the volume of transactions at speeds required by financial institutions.
- To provide one frictionless experience for financial institutions to send money globally instantly, reliably and cost effectively.
- Become the standard in cross-border payment so Ripple is not exactly a hybrid blockchain but insteads implements hybrid blockchain ideas.













XinFin







Whitepaper:

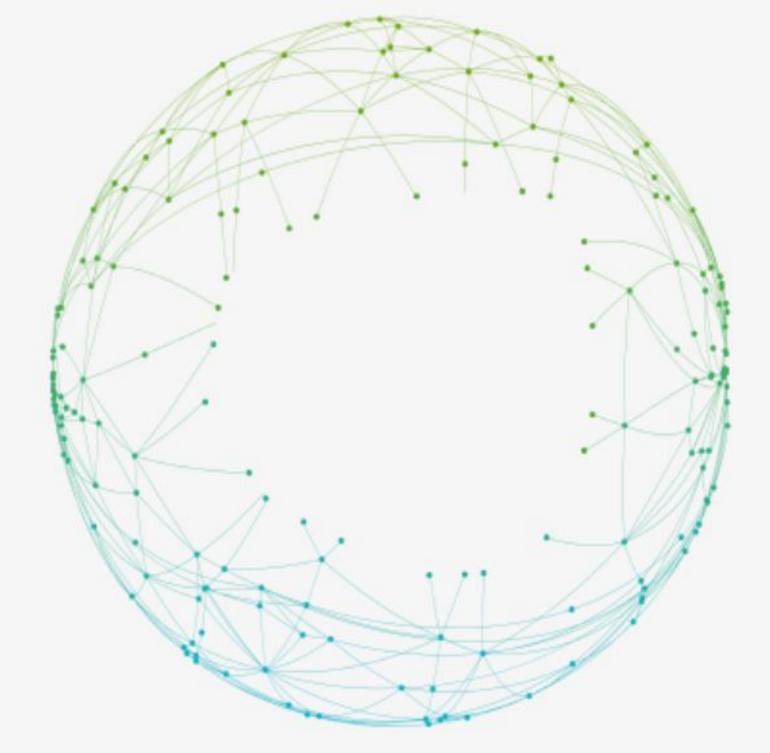
https://tinyurl.com/xinfinpaper





What is XinFin Description of XinFin

- First enterprise-ready hybrid blockchain for global trade and finance
- Integrate with dApps built on the XDC Hybrid blockchain or come build your own.
- Global businesses are beginning to
- appreciate the power of the XinFinblockchain



LOW COST

Low cost of running the network and private sub-networks; including no PoW

SECURE AND SAFE

Permissioned environment adds enterprise grade security

DATA PRIVACY

Private sub-networks provide permissioned access to data

SCALABILITY AND THROUGHPUT

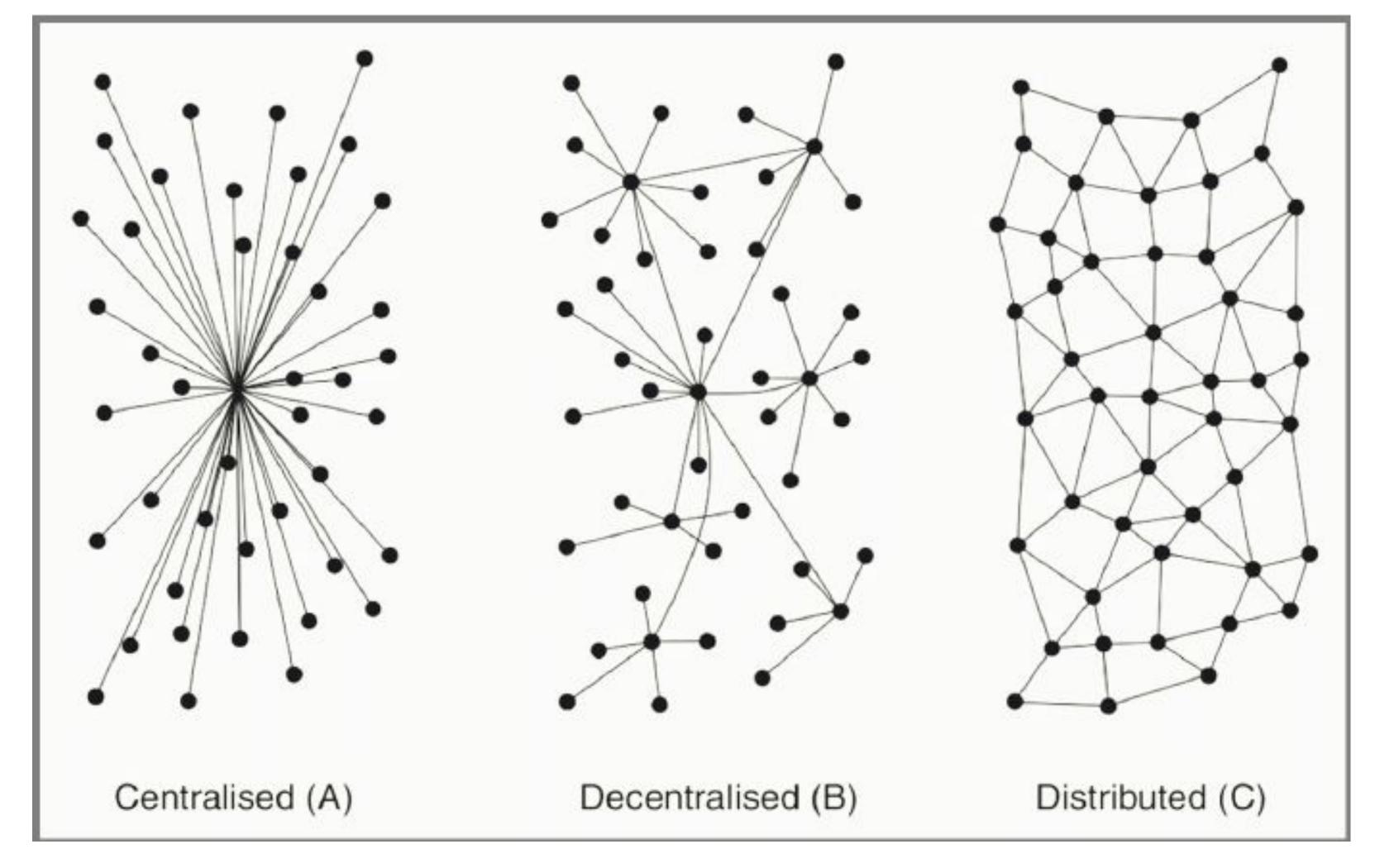
Highly scalable and with high throughput





What is XinFin

Goals















Purpose of XinFIn





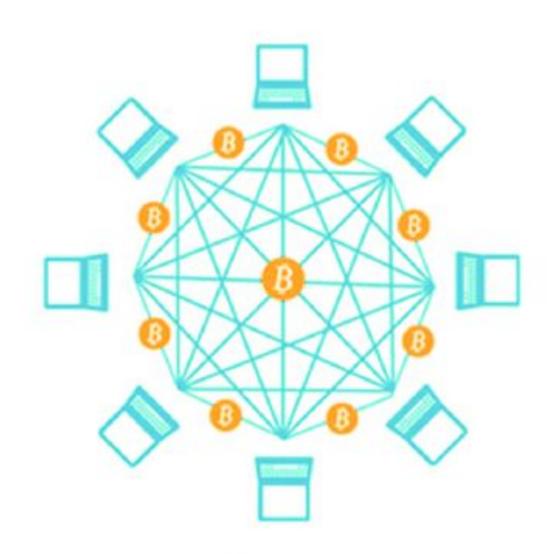


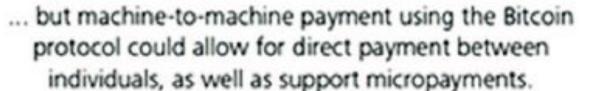
- Centralized payment switches:
 - SWIFT: USD 5 Trillion a day
 - Fedwire Daily transactions approx USD 2 Trillion / Day
 - China Domestic: USD 2 trillion India Domestic: USD 1.5 Trillion



Current payment systems require third-party

intermediaries that often charge high processing fees ...

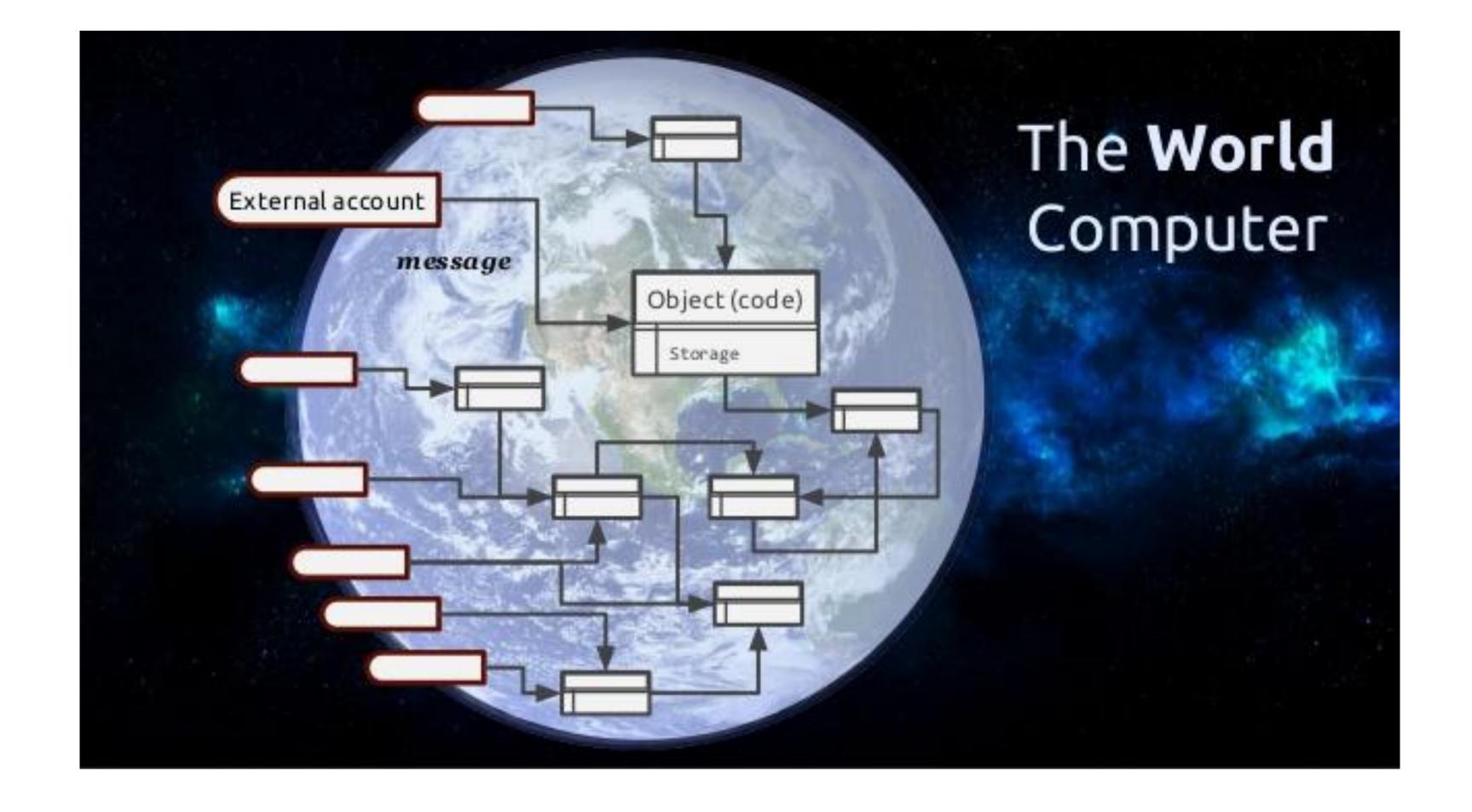








Hub and spoke computing vs. Decentralized computing



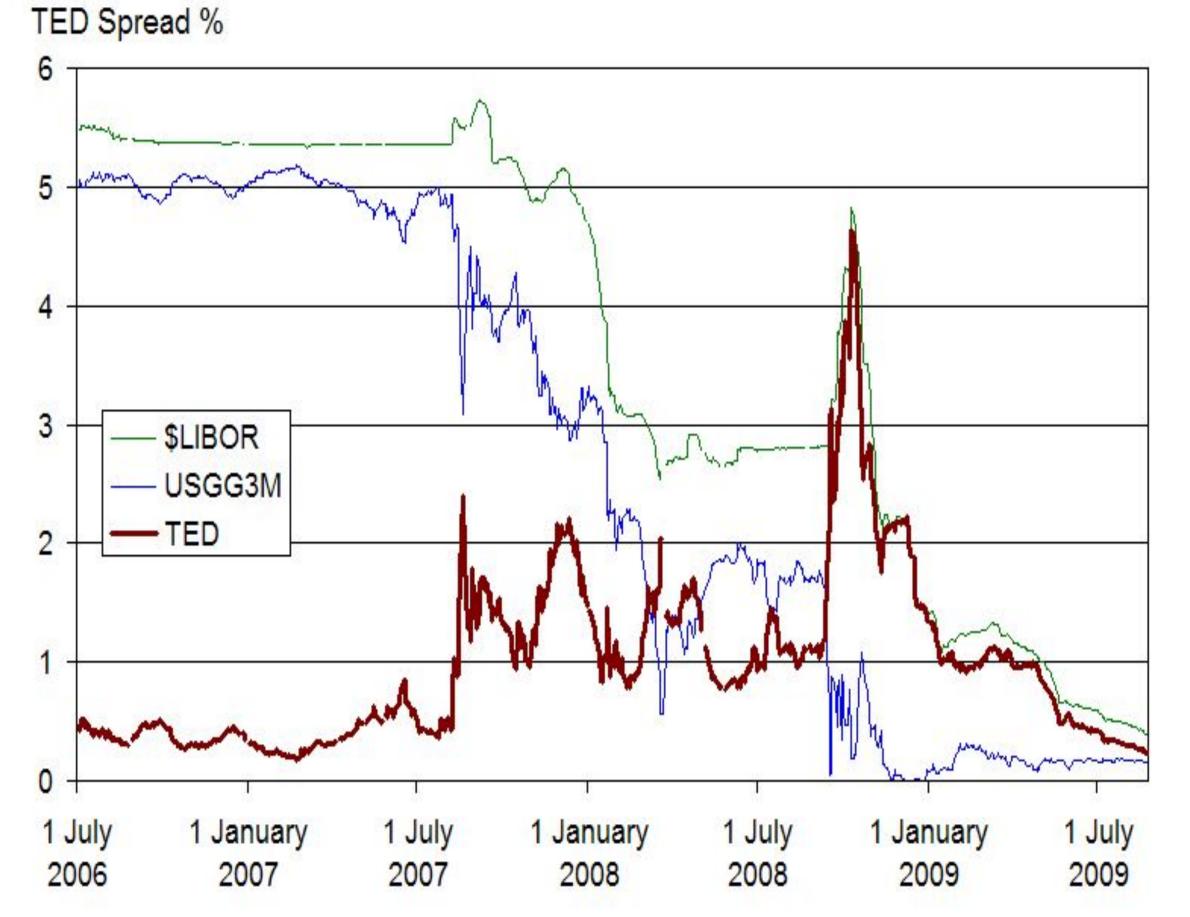




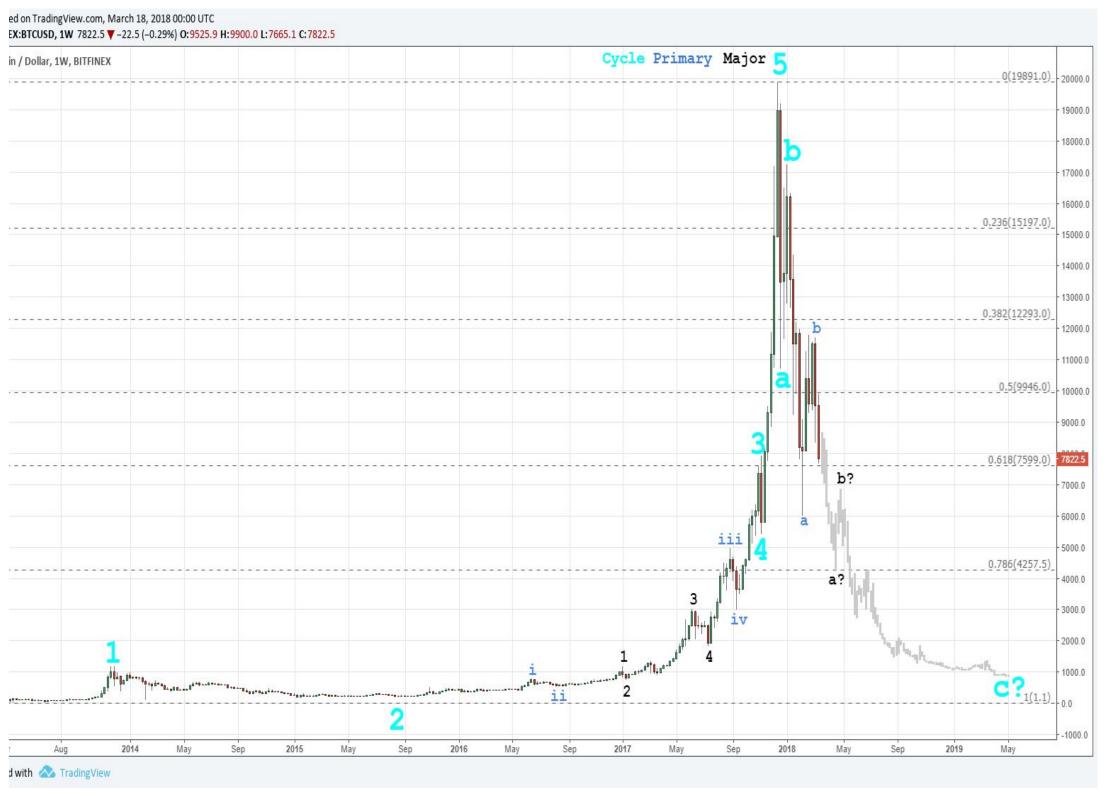
BLOCKCHAIN

Market Need - Today History

2008 – Stock Market Crash



2018 – Cypto Crash





Market Need

Markets for Cross Border Trust and Liquidity

















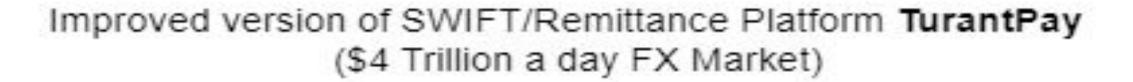


















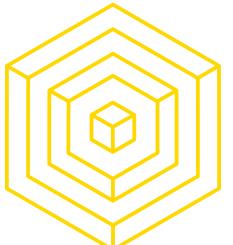




Fachnical Section of XinFin

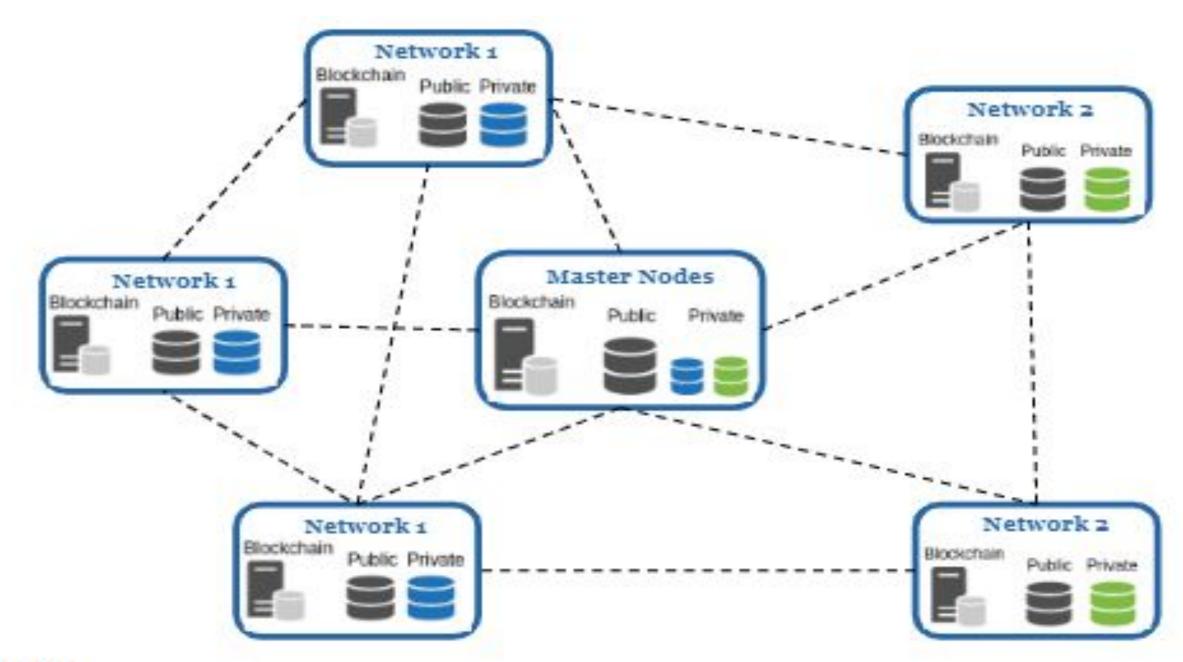






What is XinFin

Visualization of XinFIn



XinFin Blockchain

Public Blockchain

- Trust Network
- Delegated Proof of Stake (Distributed to Decentralised)
- Instant Block Finality
- 4. Ethereum Compatible
- 5. Liquidity from Decentralised Markets

Relay Bridge



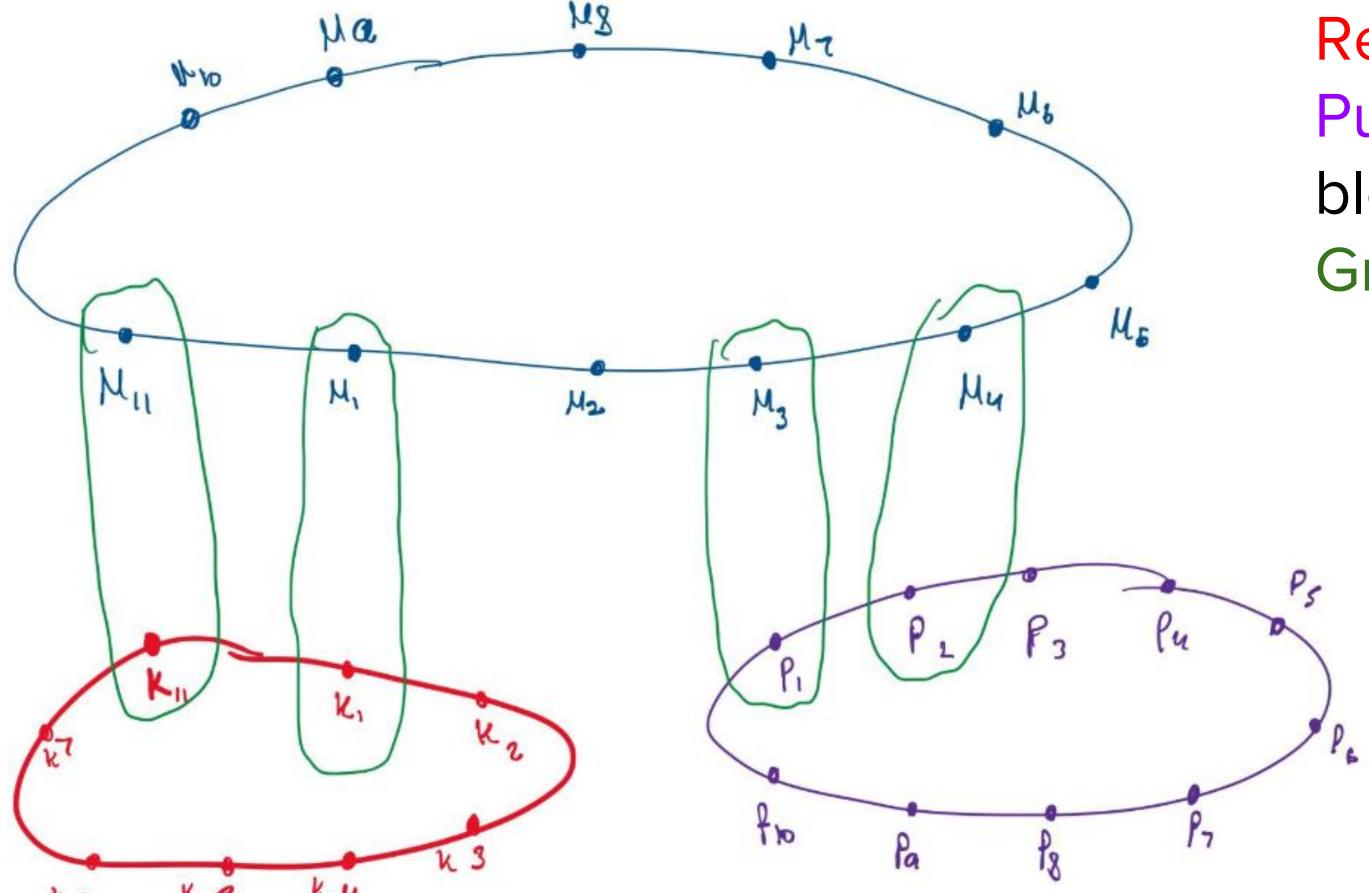
Private State

- In-Premises/On-Cloud
- 2. High TPS
- 3. Connected to centralised liquidity channels
- 4. Fully Compliant









Blue chain - XDC Public Network

Red Chain - Trade Finex
Purple Chain - Any other
blockchain
Green Circle - Relay Nodes



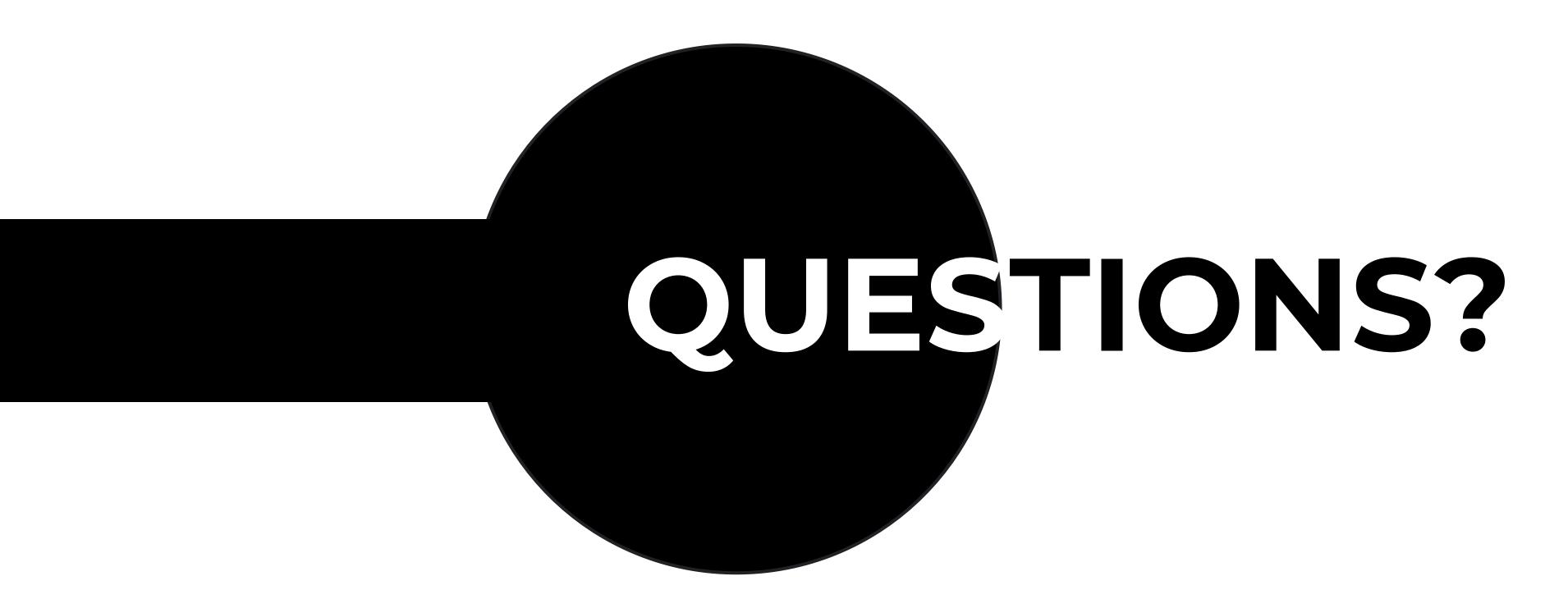


XinFin Consensus Protocol: DPOS

Delegated Proof-of-Stake

- Definition:
 - Delegated
 - "Technological Democracy"
 - Witnesses, an individual who get paid for validating and creating blocks.
 - Limited amount of people and can be removed if determined to be malicious
 - o POS
 - A person can mine or validate block transactions according to how many coins he or she holds.
- Implementation: In the past, Bitshares and other companies have used DPOS with successes. The goal is to improve on the consensus mechanism by working with the Parity team.











Work with XinFin

- Protocol Engineers
- Network Specialists
- Game Theorists
- Application Engineers

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Utility of XDC tokens APPLICATIONS STACK (POWERED BY DEV COMMUNITY)





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