Four Development Stages of the Blockchain Industry

By Topp Jirayut Srupsrisopa



Topp Jirayut Srupsrisopa

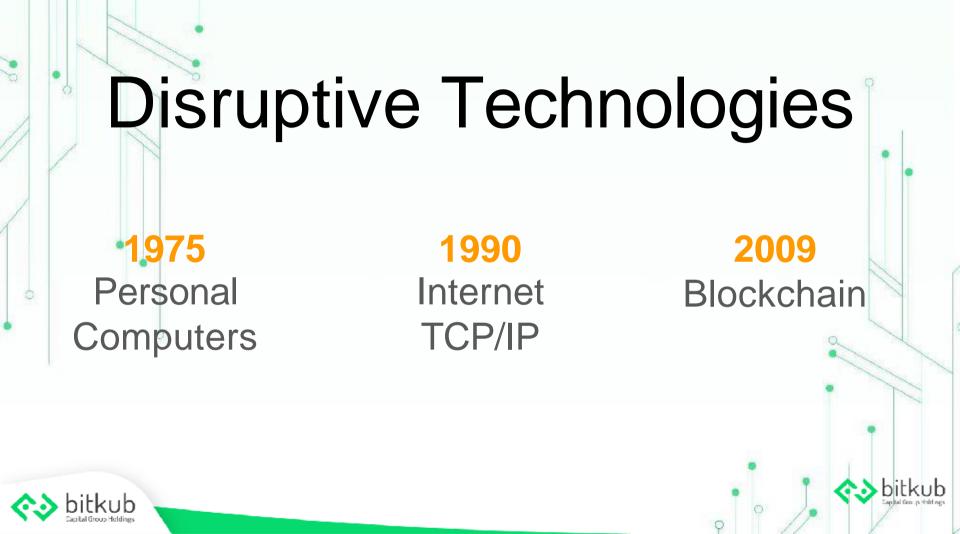


- Investment/Central Banker & Financial Consultant turned Group CEO and Co-Founder of Bitkub Capital Group Holdings Co., Ltd (BCGH)
- Previously co-founded **coins.co.th**
- Thailand's Leading Bitcoin and Open Blockchain Expert
- Board of Director at Thai Fintech Association
- Mphil in Economics at Oxford University, UK



Blockchain Technology



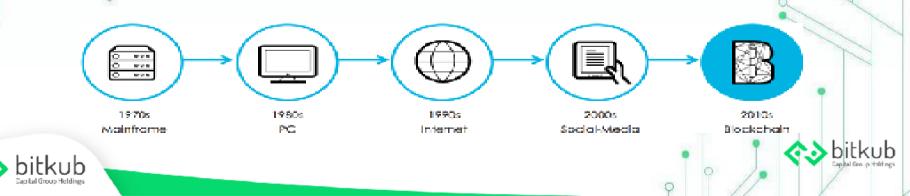


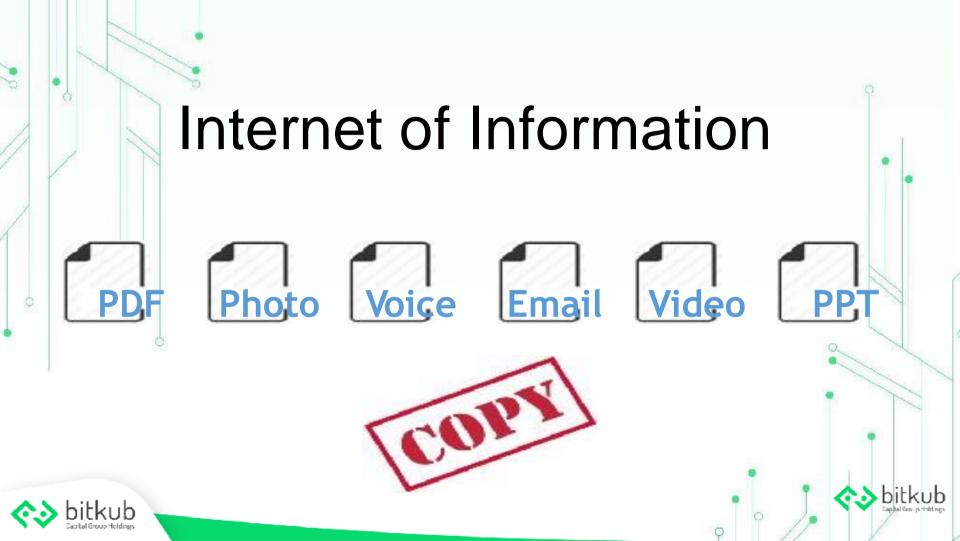
TCP/IP

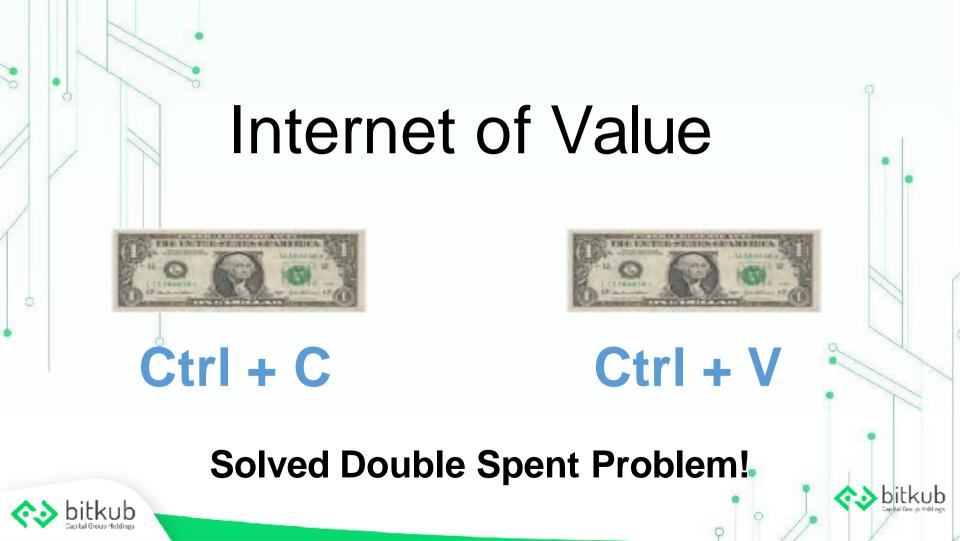
- First layer of the internet
- •Allows Instant information transfers
- Internet of information

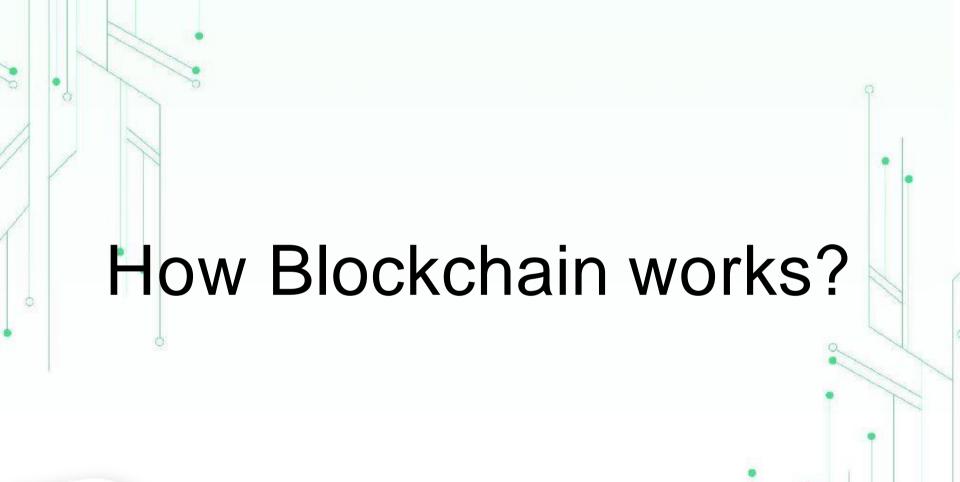
Blockchain

- Second layer of the internet
- Allows Instant value transfers
- Internet of Value





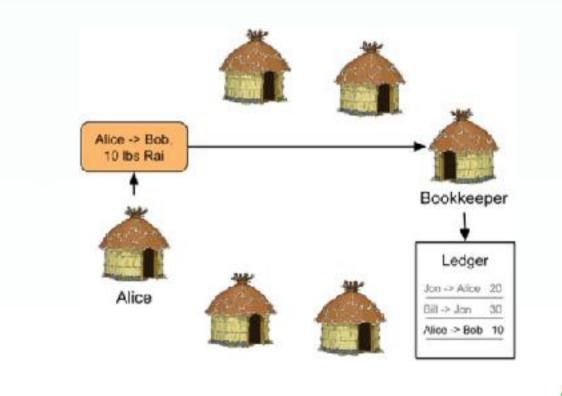




bitk



Decentralized money (analogy)

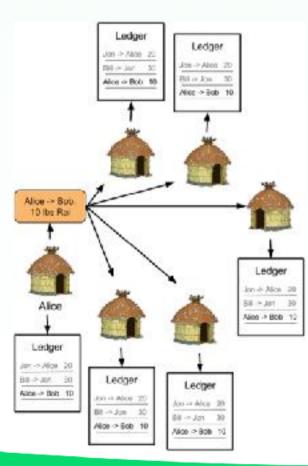


Coo bitkub

0

Q

Decentralized money (analogy)



📀 bitkub

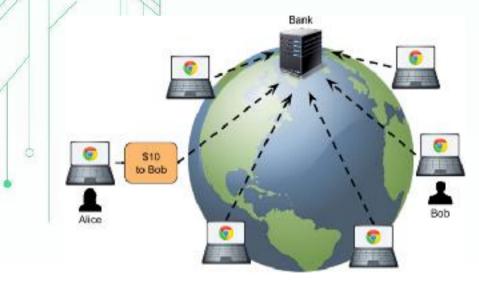
Q



~

0

Decentralized money (analogy)





0

Capital Group Heldings

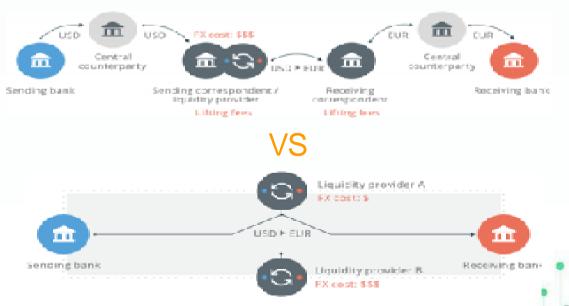
4 Development Stages

bitkub



Internet of money

- Solve pain points in remittance, finance
- Bitcoin, Zcash, Litecoin, Monero

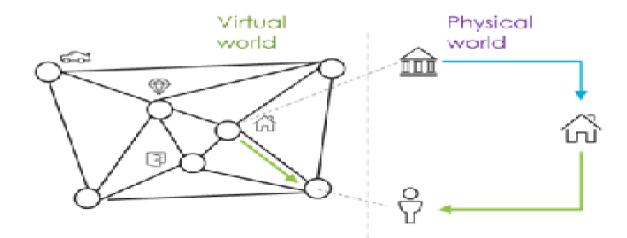




Internet of Assets = Value Registry

FACTOM

- Honduras country History of land rights abuse/corruption on property rights
- Push blockchain beyond finance. (land, condos, gold etc..) Register anything of value!
- Permanent record of important things. More efficiency in storying and sharing data.



Internet of Assets

- Painting,
- Diamonds (Everledger)
- Food traceability (Alibaba),
- E-KYC Identity (Government of Estonia)
- Health care record
- Bond registry
- Stock registry
- Insurance industry
- Gambling
- Trade finance (Wave)
- VR

Internet of entities = Value Ecosystem

- Blockchain infrastructure that is as generalised as possible
- A platform easy to set up your own Blockchain
- Users can interact with other people's infrastructures sitting next to each other
 Facebook is a platform for you to set up your own group to market your products (You can also interact with other groups on the same Facebook platform)
- Amazon platform that allows you to set up shop easily
- Wordpress platform that allows you to set up website easily
- Ethereum platform that allows you to make your own blockchain easily





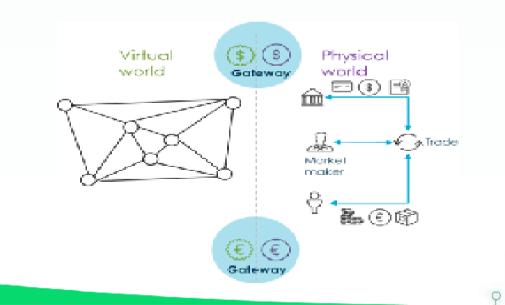
Interoperable Ledgers = Value Web

- Internet of money (cryptocurrencies) Phase 1
- Internet of assets (Value registry) Phase 2
- Internet of Entities (Value ecosystem) Phase 3
- Value web = Interoperable blockchains 1 + 2 + 3

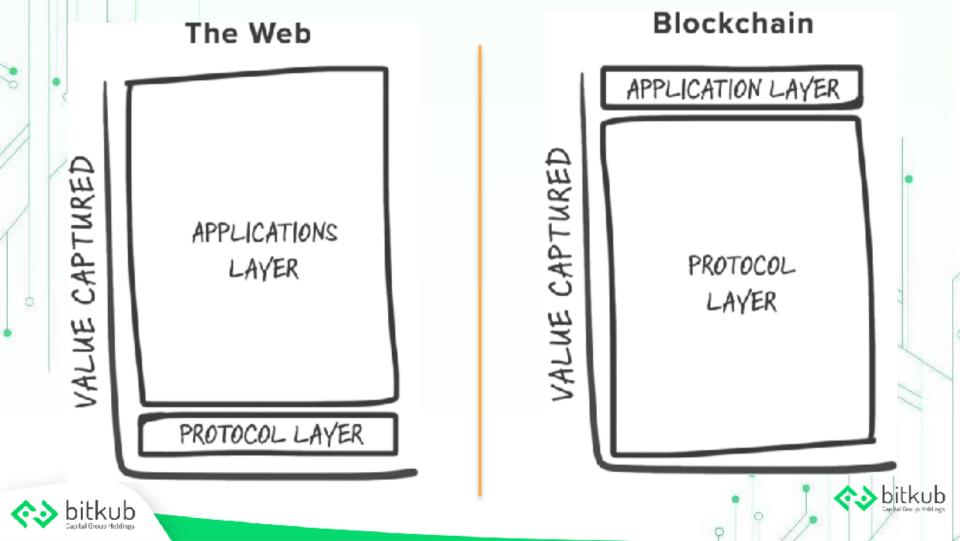


Value Web

- Value can be transferred between different types of blockchains.
- Devs are now working on the interoperable ledgers.
- Kyber Network, 0x, Airswap, OmiseGo, ICON, Wanchain etc..









bitkub

0



Public Blockchain

- Validator/Nodes are public
- Users/Participants are public
- Bitcoin blockchain The biggest blockchain
- Internet of value
- NASDAQ (coloured coins Private market)



- Private Market (NASDAQ)
- Bitcoin Blockchain (Public Blockchain)
- Coloured coin innovation built by blockchain startup -<u>chain.com</u> (2015)
- Issue shares in the form of coloured coins essentially a micro transaction (a hundred-millionth of a bitcoin)

 Each transaction would only move a tiny fraction of bitcoin encoded with the number of shares



A currency custodian's wallet tasked to hold shares



Private Blockchain

- Validator are private preselected (trusted groups)
- Users/Participants are private preselected (trusted groups)
- Intranet of value (Industry level systems of record)
- R3CEV Groups (25 biggest banks, JP morgan, HSBC, Citi)
- No tokens needed to incentivise other actors to keep the system secured.
- Benefits
 - Cheaper/free transaction costs
 - Greater privacy/security (more than one single point of failure)
 - Faster validation process
 - Enhance Intra-bank infrastructure reduce operating expenses





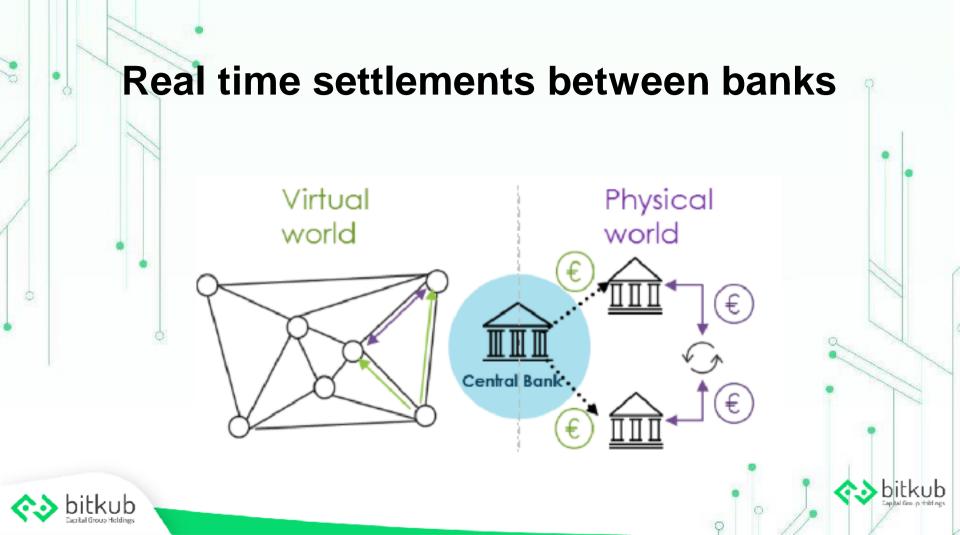
Central Banks Usecase

E.g. BAHTNET

- Inter-bank payment/clearing are resource-intensive steps between banks, clearing houses, and the central bank
- •The next day transfer as a result of processing cycle, not executed at a constant basis.
- Cryptoeuro blockchain solution where central bank issues allowing for realtime settlement between banks
- 1:1 cryptocurrency to thai baht representative (cash ledger) control money flows

Bank of England puts 10 million pounds into cryptocurrency research





Consortium Blockchain

- Validator/nodes/miners are preselected trusted groups
- Users/participants are public
- Extranet of value
- e.g. NASDAQ LINQ



Capital Markets

 Asset ledger - Securities custodian: Licensed to create a certain asset (private)

- Cash ledger Currencies custodian (1:1 ratio - safe liquidity provider) (Private)
- •Trade data available to the people (Public), transparency
- NASDAQ LINQ (2016 Consortium blockchain)





Towards the **Digital Economy**



"The Electric light did not come from the continuous improvements of candles"

topp@toppjirayut.com

https://www.facebook.com/toppjirayutofficial/

