Building Decentralized Web and Token Economy

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Useful terms

- Blockchain/ Distributed Ledger Technologies
- Cryptocurrency/ Token
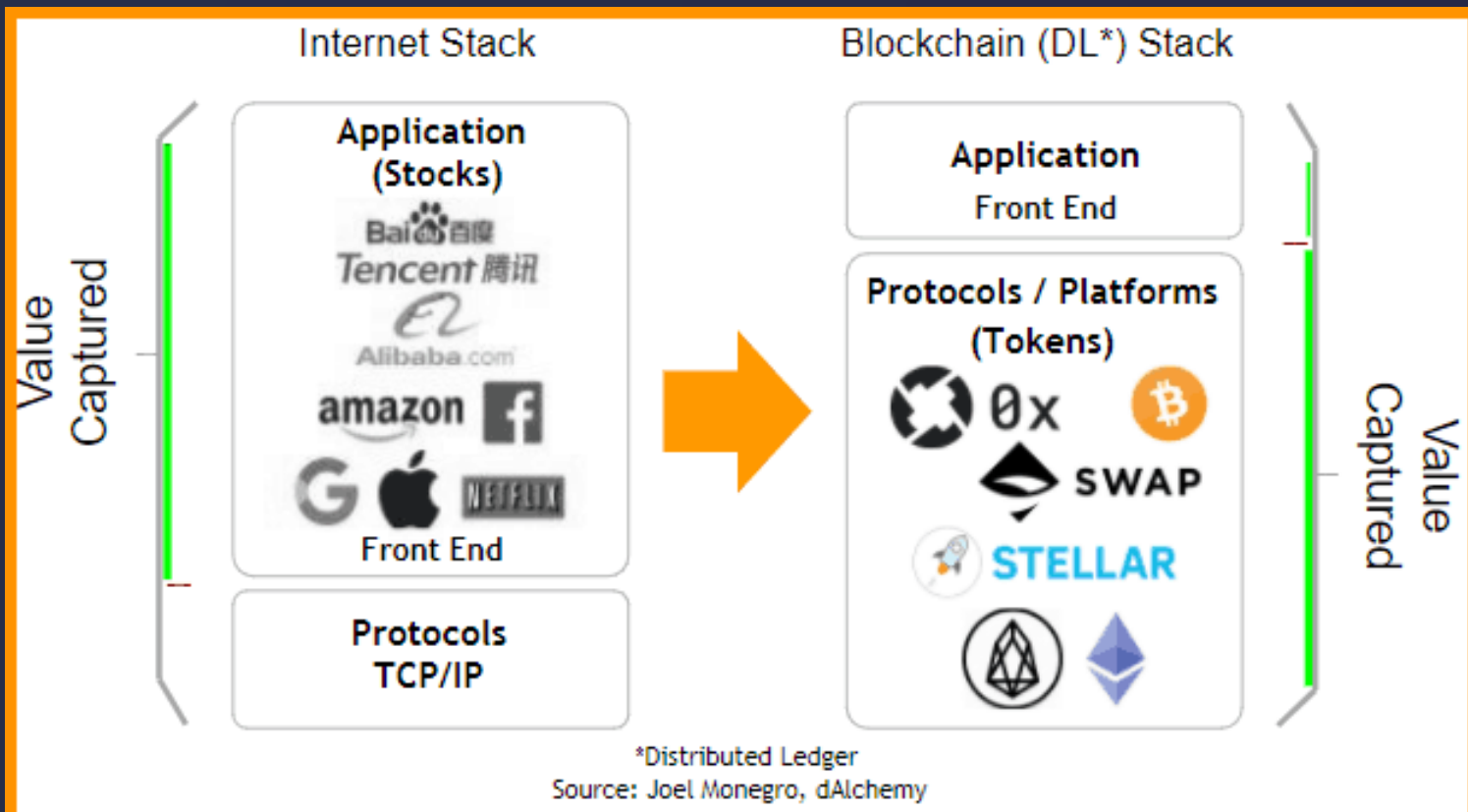- Dapp/ Bapp
- Decentralized Web

Why Decentralized Web

- Built-in value transfer layer (micro payment or store of values)
- User controlled identity, data and finance
    - P2P financial services without Banks
    - P2P ride-sharing without Uber
    - P2P social media without Facebook
- Open Infrastructure
- Immutable Data and Trust

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Internet Architecture

TCP/IP Model Architecture:

Layer #	Layer Name	Protocol	Protocol Data Unit	Addressing
5	Application	HTTP, SMTP, etc…	Messages	n/a
4	Transport	TCP/UDP	Segments/ Datagrams	Port #s
3	Network or Internet	IP	Packets	IP Address
2	Data Link	Ethernet, Wi-Fi	Frames	MAC Address
1	Physical	10 Base T, 802.11	Bits	n/a

TomoChain

Internet Stack versus Blockchain Stack

TomoChain

Internet Stack

Blockchain (DL*) Stack

Value Captured

Application (Stocks)

Bai百度
Tencent 腾讯
Alibaba.com
amazon f
G
NETFLIX

Front End

Protocols TCP/IP

Application

Front End

Protocols / Platforms (Tokens)

0x
SWAP
STELLAR

Value Captured

*Distributed Ledger
Source: Joel Monegro, dAlchemy

How to start (users)

- Blockchains: Bitcoin, Ethereum, EOS, NEO, TomoChain etc.
- Token: BTC, Eth, Eos, Neo, Tomo etc.
- Wallets: MEW, TomoWallet, TrustWallet etc.
- Exchanges: Binance, KuCoin, Bittrex, VCC, Remitano
- Dapps: KyberSwap, TomoSwap, Axie Infinity, F1 Delta, Constant, Games etc.
- Dapp statistics sites: Dapp.com; Dapp.review etc.

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How to start (developers)

- Blockchain platform: Ethereum, TomoChain.
- Contract language: Solidity.
- Truffle: A development environment, testing framework, build pipeline, and other tools.
- Remix: Web-based IDE with built in static analysis, and a test blockchain virtual machine.
- Backend APIs: Infura, TomoChain's RPC
- Testnet, Block Explorer
- Security practices, supports etc.

Resources

https://www.ethereum.org/developers/

https://tomochain.com/

Thank You !