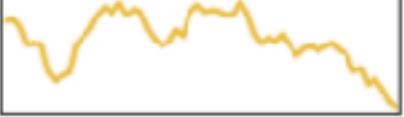
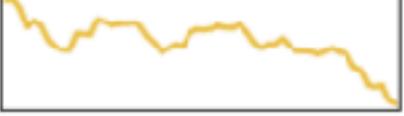
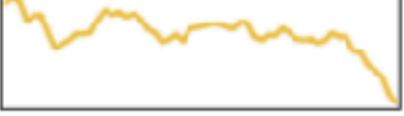
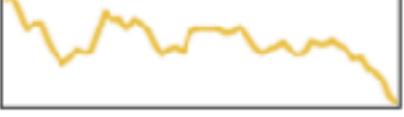


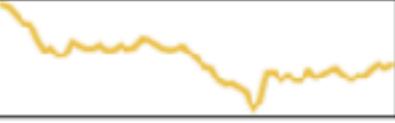
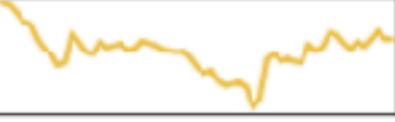
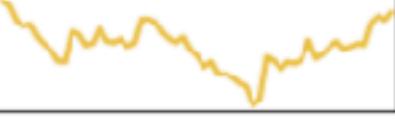
Blockchain

มาทำความรู้จักเทคโนโลยีเปลี่ยนโลกกันเถอะ

Bhume Bhumiratana, Ph.D.

Cryptocurrency

#	Name	Market Cap	Price	Volume (24h)	Circulating Supply	Change (24h)	Price Graph (7d)
1	 Bitcoin	\$132,981,080,768	\$7,859.46	\$6,838,770,000	16,919,875 BTC	-14.47%	
2	 Ethereum	\$57,551,307,036	\$586.09	\$1,977,380,000	98,195,843 ETH	-15.40%	
3	 Ripple	\$25,540,064,793	\$0.653337	\$610,934,000	39,091,716,516 XRP *	-17.31%	
4	 Bitcoin Cash	\$15,072,191,969	\$885.64	\$404,128,000	17,018,438 BCH	-15.06%	
5	 Litecoin	\$8,594,866,707	\$154.49	\$523,691,000	55,633,806 LTC	-11.61%	
6	 Cardano	\$4,540,504,155	\$0.175126	\$163,516,000	25,927,070,538 ADA *	-23.35%	
7	 NEO	\$4,305,437,500	\$66.24	\$161,324,000	65,000,000 NEO *	-20.39%	
8	 Stellar	\$4,092,130,759	\$0.221212	\$55,592,300	18,498,683,431 XLM *	-23.87%	
9	 EOS	\$3,596,757,996	\$4.94	\$270,565,000	728,643,258 EOS *	-15.90%	
10	 Monero	\$3,297,518,938	\$208.37	\$82,691,200	15,825,609 XMR	-15.89%	
11	 NEM	\$3,177,855,000	\$0.353095	\$138,081,000	8,999,999,999 XEM *	-30.51%	

#	Name	Market Cap	Price	Volume (24h)	Circulating Supply	Change (24h)	Price Graph (7d)
1	 Bitcoin	\$153,529,079,649	\$9,067.74	\$6,330,180,000	16,931,350 BTC	7.14%	
2	 Ethereum	\$56,657,109,816	\$576.24	\$1,862,850,000	98,321,729 ETH	9.09%	
3	 Ripple	\$27,804,971,261	\$0.711232	\$661,881,000	39,094,094,840 XRP *	3.93%	
4	 Bitcoin Cash	\$17,989,755,258	\$1,056.38	\$467,140,000	17,029,625 BCH	8.86%	
5	 Litecoin	\$9,662,355,441	\$173.40	\$509,351,000	55,722,926 LTC	9.22%	
6	 Cardano	\$5,647,927,119	\$0.217839	\$251,652,000	25,927,070,538 ADA *	18.52%	
7	 NEO	\$4,957,452,500	\$76.27	\$218,365,000	65,000,000 NEO *	10.73%	
8	 Stellar	\$4,909,474,146	\$0.264677	\$103,169,000	18,548,926,224 XLM *	10.10%	
9	 EOS	\$4,574,567,516	\$6.16	\$521,463,000	742,485,983 EOS *	9.02%	
10	 IOTA	\$3,964,305,066	\$1.43	\$72,407,800	2,779,530,283 MIOTA *	8.55%	
11	 Monero	\$3,692,443,354	\$233.00	\$63,781,600	15,847,464 XMR	11.23%	

#	Name	Market Cap	Price	Volume (24h)	Circulating Supply	Change (24h)	Price Graph (7d)
1	 Bitcoin	\$108,769,715,974	\$6,363.84	\$5,063,080,000	17,091,837 BTC	-3.36%	
2	 Ethereum	\$47,720,162,939	\$476.92	\$2,067,070,000	100,059,471 ETH	-4.44%	
3	 Ripple	\$20,845,793,969	\$0.531180	\$360,784,000	39,244,312,603 XRP *	-5.41%	
4	 Bitcoin Cash	\$14,430,082,164	\$839.83	\$544,768,000	17,182,188 BCH	-4.16%	
5	 EOS	\$3,974,220,244	\$10.01	\$1,242,210,000	896,149,492 EOS *	-2.21%	
6	 Litecoin	\$5,367,790,630	\$94.22	\$360,510,000	56,969,671 LTC	-6.11%	
7	 Stellar	\$4,118,647,191	\$0.221379	\$47,969,500	18,604,507,160 XLM *	-4.76%	
8	 Cardano	\$4,078,691,175	\$0.157314	\$101,581,000	25,927,070,538 ADA *	-5.11%	
9	 IOTA	\$3,319,231,676	\$1.19	\$90,085,000	2,779,530,283 MIOTA *	-5.92%	
10	 TRON	\$2,693,568,638	\$0.040968	\$240,206,000	65,748,111,645 TRX *	-6.44%	
11	 Tether	\$2,524,840,756	\$1.01	\$3,049,770,000	2,507,140,346 USDT *	0.33%	
12	 NEO	\$2,493,686,000	\$38.36	\$98,959,300	65,000,000 NEO *	-7.64%	



Your Bitcoin Address:

1KGeNiDw zH5N
rdwN ETj3 hQEx
wr5H MN9e FW



BTC 0.2419

≈ EUR 18.3901

Received Both Sent

- Apr 9 ← Donation + 0.0015
- Apr 7 → 1LTT9wVq1qigy... - 0.4005
- Apr 5 → 1Q4H8CY4FpnJ9... - 2.3010
- Apr 4 → Burger @ room77 - 0.0754
- Apr 4 ← 1G9Hjz1JCUqnh... + 2.2452
- Mar 19 → 1Q4H8CY4FpnJ... - 0.0505
- Mar 18 ← Beer with Lisa + 0.01

World's Most Secure Bitcoin... BitGo Keycard for...

https://www.bitgo.com/enterprise/personal/wallets

BitGo® Wallets Activity Reports

0 BTC \$ 0.00

Bitcoin Price \$ 247.35

High 248.39 24h + -0.02 (-0.01%)

Low 244.62 Global Vol 51755 BTC

1w 1m 3m \$ 247.35 | 23 Jun 2015

NAME	BALANCE
[Redacted]	0 \$ 0.00

+ Create a Wallet

wikiHow to Create a Bitcoin Wallet at Bitgo.com



Holding: B109,919 24h Vol: B96,931

Price	Amount	Cumulative	Date	Price	Amount
321.58	0.6219	12.7726	15:04:58	320.31	29.3465
321.51	0.3110	12.1607	15:04:58	320.31	24.9759
321.49	0.3110	11.8397	15:04:30	320.31	21.8539
321.21	0.3113	11.5287	15:04:30	320.31	18.1075
320.99	6.2307	11.2174	15:04:02	320.31	11.8635
320.91	0.3116	4.9667	15:04:02	320.31	14.9855
320.69	3.1163	4.6751	15:03:54	320.29	1.2489
320.78	1.2469	1.5583	15:03:54	320.31	0.6244
320.61	0.3119	0.3119	15:03:40	320.62	0.6238
			15:03:40	320.63	1.8714
			15:03:37	320.77	22.4460
320.01	0.3124	0.3124	15:03:37	320.77	21.1990
320.00	100.0000	100.3124	15:03:35	320.63	13.7230
319.58	1.2516	101.5640	15:03:35	320.63	2.4951
319.22	2.1928	103.7568	15:03:10	320.77	36.7865
319.20	2.1929	105.9497	15:03:10	320.77	16.0815
319.12	3.1336	109.0833	15:03:07	320.63	0.6238
319.10	3.1338	112.2171	15:02:48	320.63	18.7132
319.02	4.7018	116.9189	15:02:42	320.76	10.5999
319.00	6.2655	123.1844	15:02:42	320.76	10.5999

Last: 320.31 ↑ Index: 313.34

Account Equity: 3.0244 RPL: 0.0000 LPL: -0.4616 Margin: 1.6221 Margin Ratio: 176.45%

Avail: B 1.4023 BTC0102 BTC0109 BTC0327

Contract	Lvg.	Date	Type	Amount	Price	Filled	Avg	Margin	Fee	Status
BTC0327	10	12-11 16:10:11	Open Long	0.2858	\$350.00	0.2858	\$350.00	B0.0000	B-0.00006	Filled
BTC0327	10	12-11 13:16:03	Open Long	2.7028	\$370.00	2.7028	\$370.00	B0.0000	B-0.00081	Filled
BTC0327	10	12-11 13:15:25	Open Long	2.6077	\$383.49	2.6077	\$383.49	B0.0000	B-0.00078	Filled
BTC0327	10	12-11 12:57:43	Open Long	8.0298	\$373.61	8.0298	\$373.61	B0.0000	B-0.00241	Filled

Price: 320.77 BBO

Amount: 11.5287 10% 20% 50% 100%

Open Long Open Short Close Short Close Long

Latest: 8,900.00 | Change: -1.13% 1 | High: 9,180.00 | Low: 8,700.00 | 24 Hours Vol: 9.61413796 BTC | Avg: 9,014.54

Create an Order (Thai Baht to Bitcoin)

Buy Order Sell Order My Open Orders

Available Balance: 0.00 THB (All)

THB you spend

Limit Order Order Type

Price per BTC

BTC you receive

Fee 0.25%

Create Order Reset

Bitcoin Trading Charts

Detailed Charts

Price Chart Depth Chart Other Markets

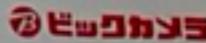
Zoom 1h 3h 6h 12h All From Mar 15, 2015 To Mar 15, 2015



業界初!

 **bitcoin**



 ビックカメラ

有楽町店で使えます。

ビックロ ビックカメラ新館東口新店でもご利用頂けます。

業界初!

 **bitcoin**

有楽町店で使えます。



Can be used for payment at Yurakucho Store.

10% オークション
8% + 5%

業界率先導入!

 **bitcoin**

可以用于结算。
Can be used for payment.



8% + 5%

業界初!

 **bitcoin**



有楽町店で使えます。

業界初!

 **bitcoin**

有楽町店で使えます。

10% 8% + 5%

スマートフォン

- ① 初期設定
- ② アプリ設定
- ③ 料金計算
- ④ 保護 ⑤ 保証

SoftBank



au au au

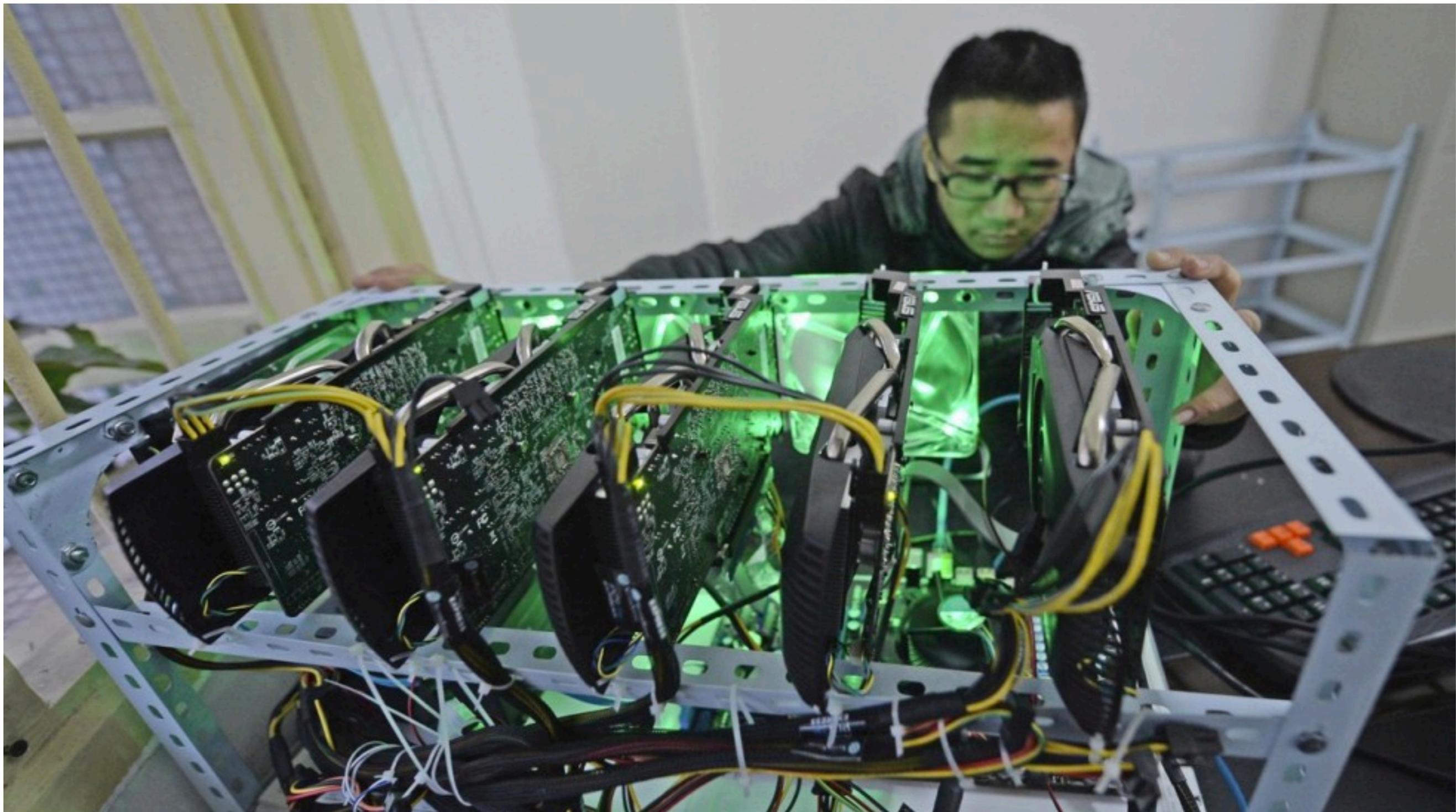
docomo

iPhone 7



RIA

BIC CAM







WHAT IS BLOCKCHAIN?

A QUICK INTRO

The Next Revolution

LETS

LOOK AT THE PREVIOUS ONE

CALLED

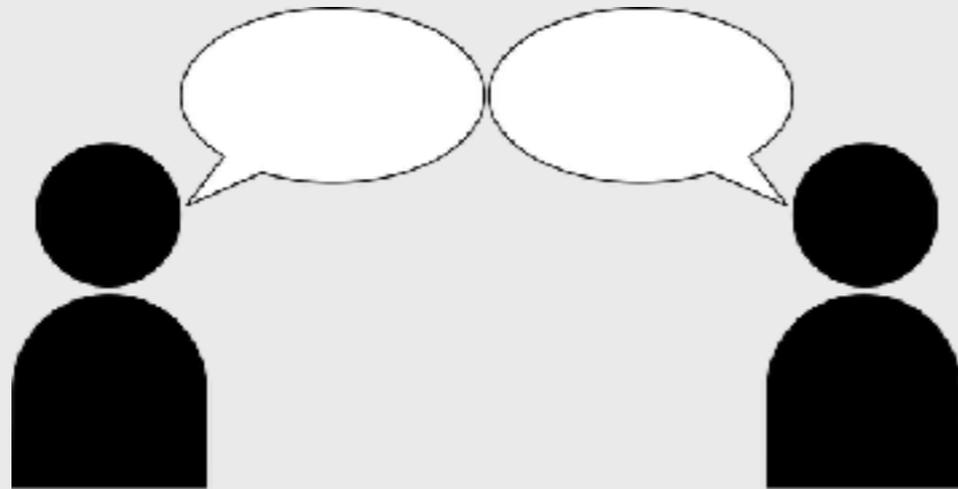
INTERNET



Pre-Internet

BEFORE

INTERNET



Limitation Of Internet

LIMITATION

INFORMATION ONLY

THINGS?

MONEY?

TRUST?

What can Internet Enhance for us?

What it does not?



The Next Revolution

LETS BRING

VALUE

AND

TRUST

TO THE INTERNET



Example: Currency

WHAT

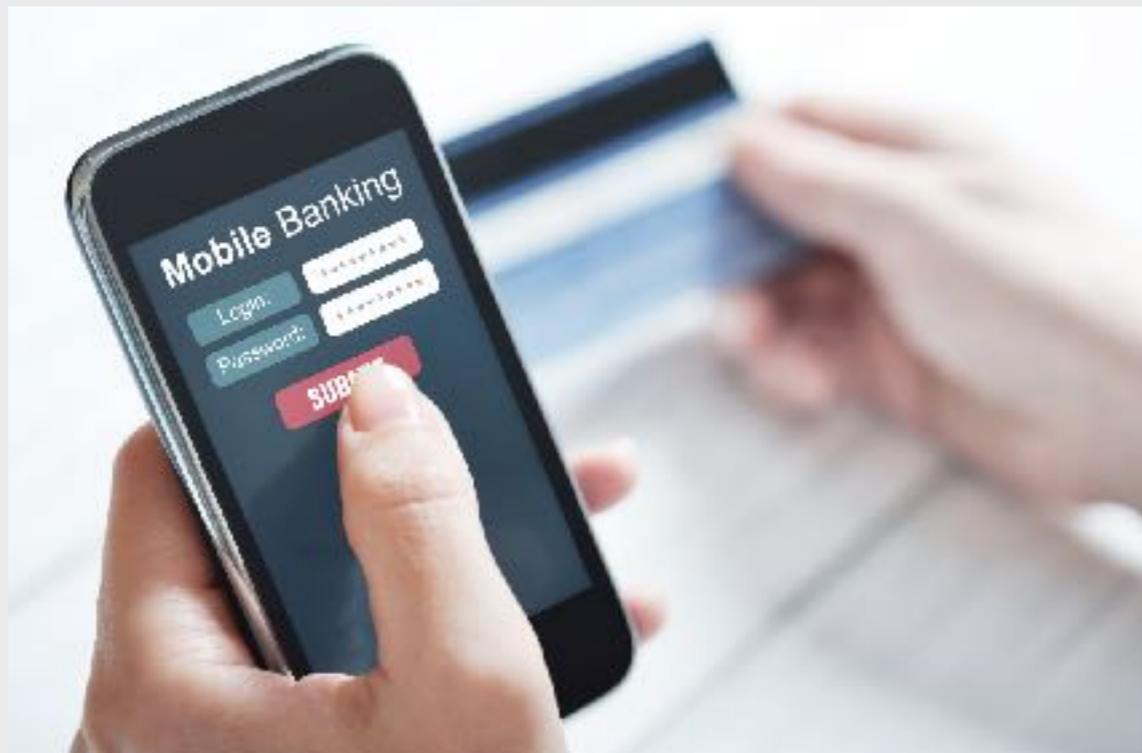
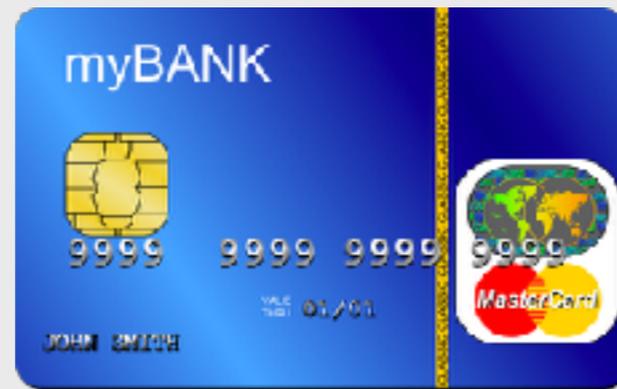
IS CURRENCY?



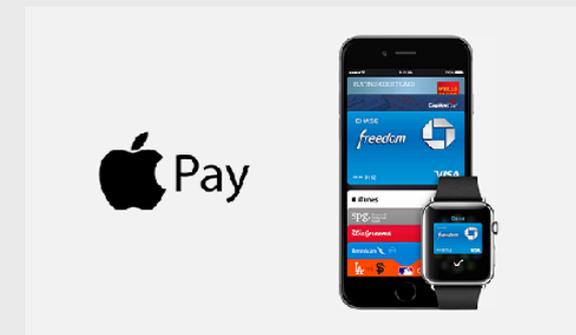
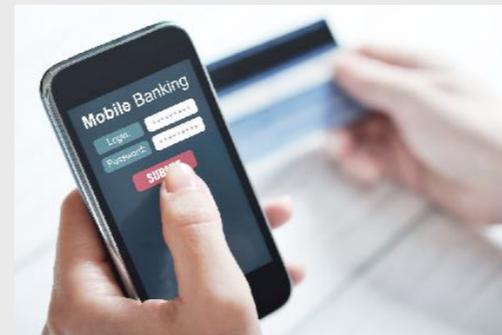
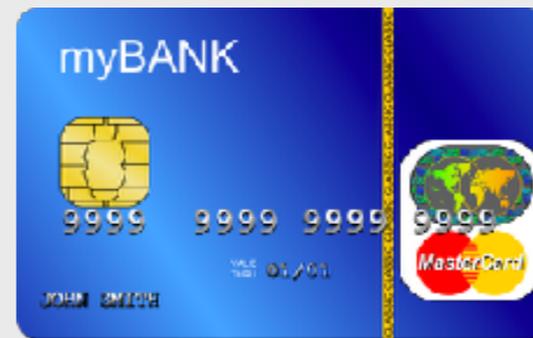
Internet Of Money

WHAT

DOES IT LOOK LIKE?



Internet Of Money





INTERNET OF MONEY

LOOKS LIKE THIS



INTERNET OF MONEY

LOOKS LIKE THIS

IT REQUIRES NO

TRUSTED 3RD PARTY



INTERNET OF MONEY

LOOKS LIKE THIS

IT REQUIRES NO

TRUSTED 3RD PARTY

RECEIVER KNOWS HE CANNOT BE

LIED TO



INTERNET OF MONEY

LOOKS LIKE THIS

IT REQUIRES NO

TRUSTED 3RD PARTY

RECEIVER KNOWS HE CANNOT BE

LIED TO

FINITE AMOUNT

EXISTS



INTERNET OF MONEY

LOOKS LIKE THIS

IT REQUIRES NO

TRUSTED 3RD PARTY

RECEIVER KNOWS HE CANNOT BE

LIED TO

FINITE AMOUNT

EXISTS

TRANSACTION CAN HAPPEN FROM

ANYWHERE



INTERNET OF MONEY

LOOKS LIKE THIS

IT REQUIRES NO

TRUSTED 3RD PARTY

RECEIVER KNOWS HE CANNOT BE

LIED TO

FINITE AMOUNT

EXISTS

TRANSACTION CAN HAPPEN FROM

ANYWHERE

BETWEEN

ANYONE



INTERNET OF MONEY

LOOKS LIKE THIS

IT REQUIRES NO

TRUSTED 3RD PARTY

RECEIVER KNOWS HE CANNOT BE

LIED TO

FINITE AMOUNT

EXISTS

TRANSACTION CAN HAPPEN FROM

ANYWHERE

BETWEEN

ANYONE

CLEARING COMPLETE

ALMOST IMMEDIATELY



INTERNET OF MONEY

LOOKS LIKE THIS

IT REQUIRES NO

TRUSTED 3RD PARTY

RECEIVER KNOWS HE CANNOT BE

LIED TO

FINITE AMOUNT

EXISTS

TRANSACTION CAN HAPPEN FROM

ANYWHERE

BETWEEN

ANYONE

CLEARING COMPLETE

ALMOST IMMEDIATELY

HOW IS THIS

POSSIBLE?



How Is This Possible?

WITH

BLOCKCHAIN

TECHNOLOGY



WHAT IS BLOCKCHAIN?

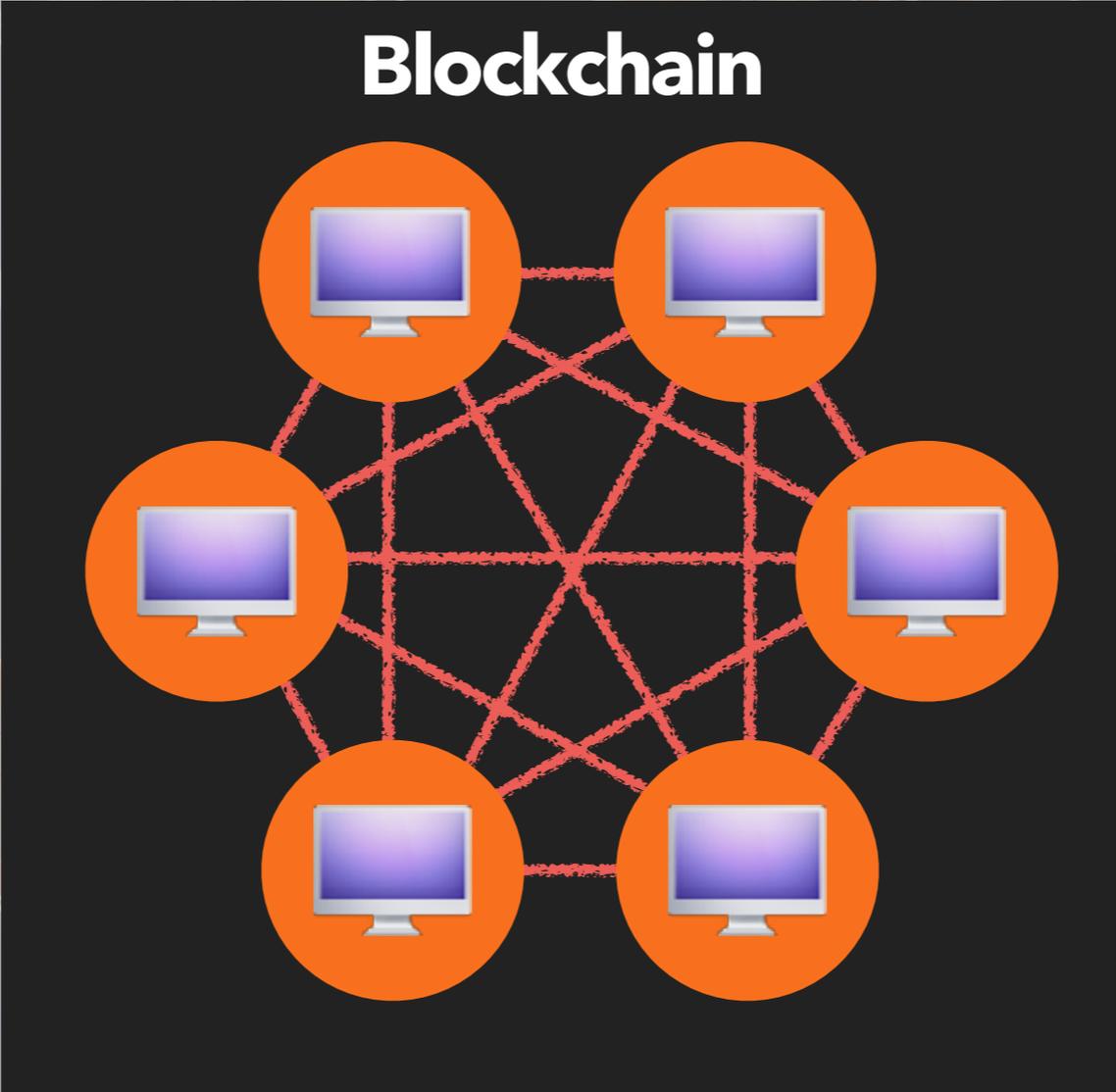


WHAT IS BLOCKCHAIN?

NETWORK OF COMPUTERS THAT

COOPERATES

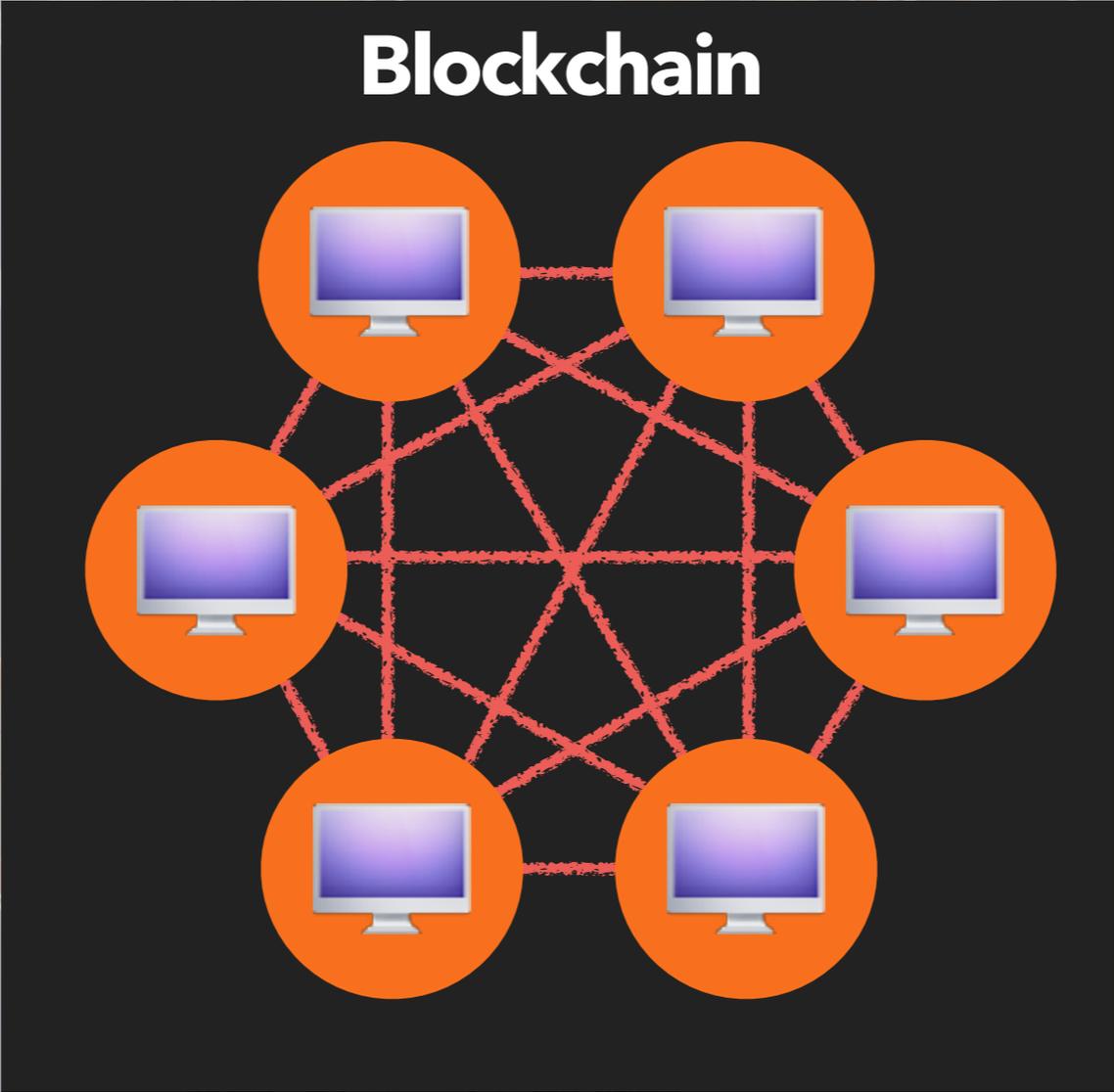
TO



WHAT IS BLOCKCHAIN?

MAINTAIN SETS OF

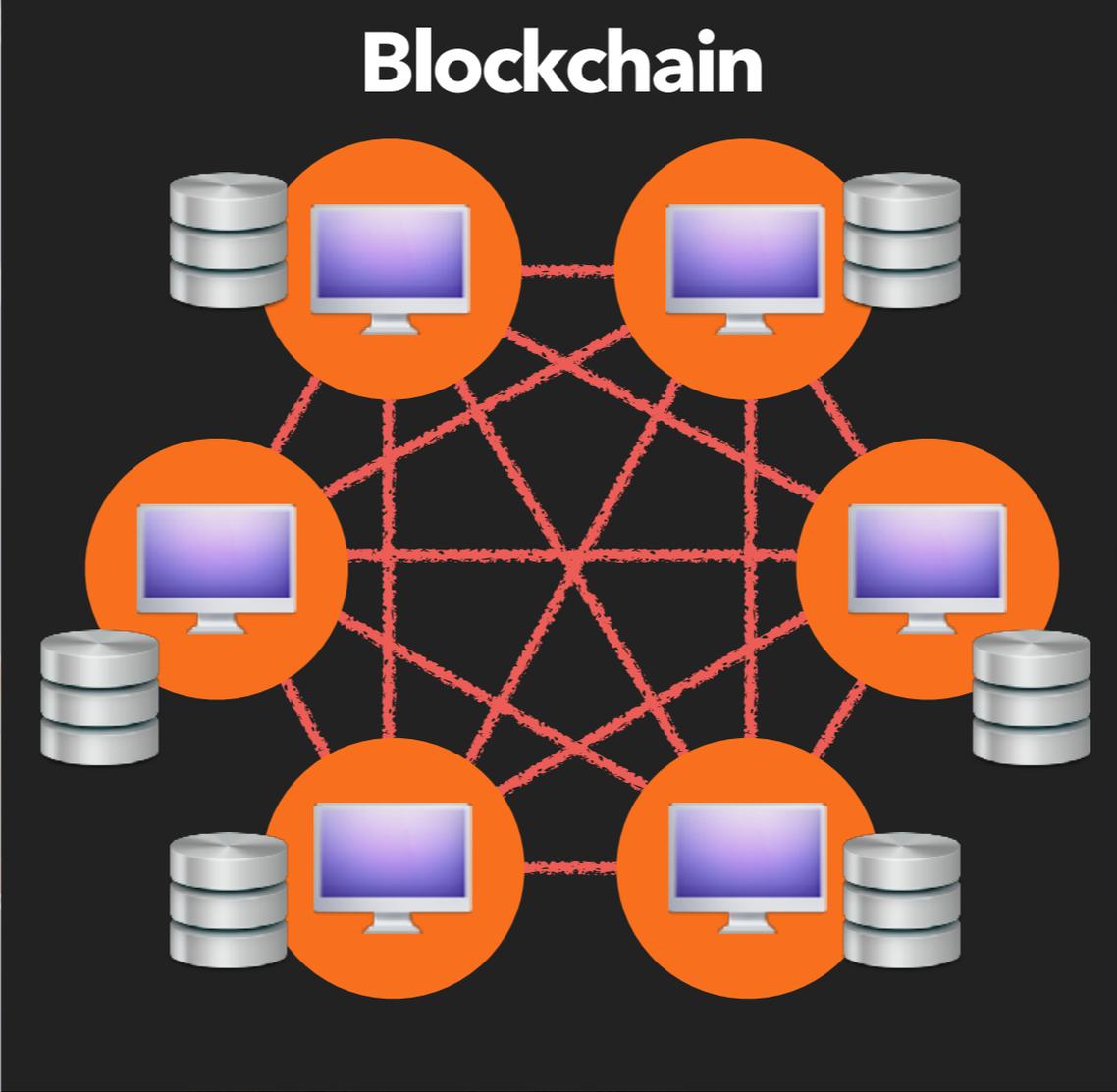
FACTS



WHAT IS BLOCKCHAIN?

TOGETHER AS FACT

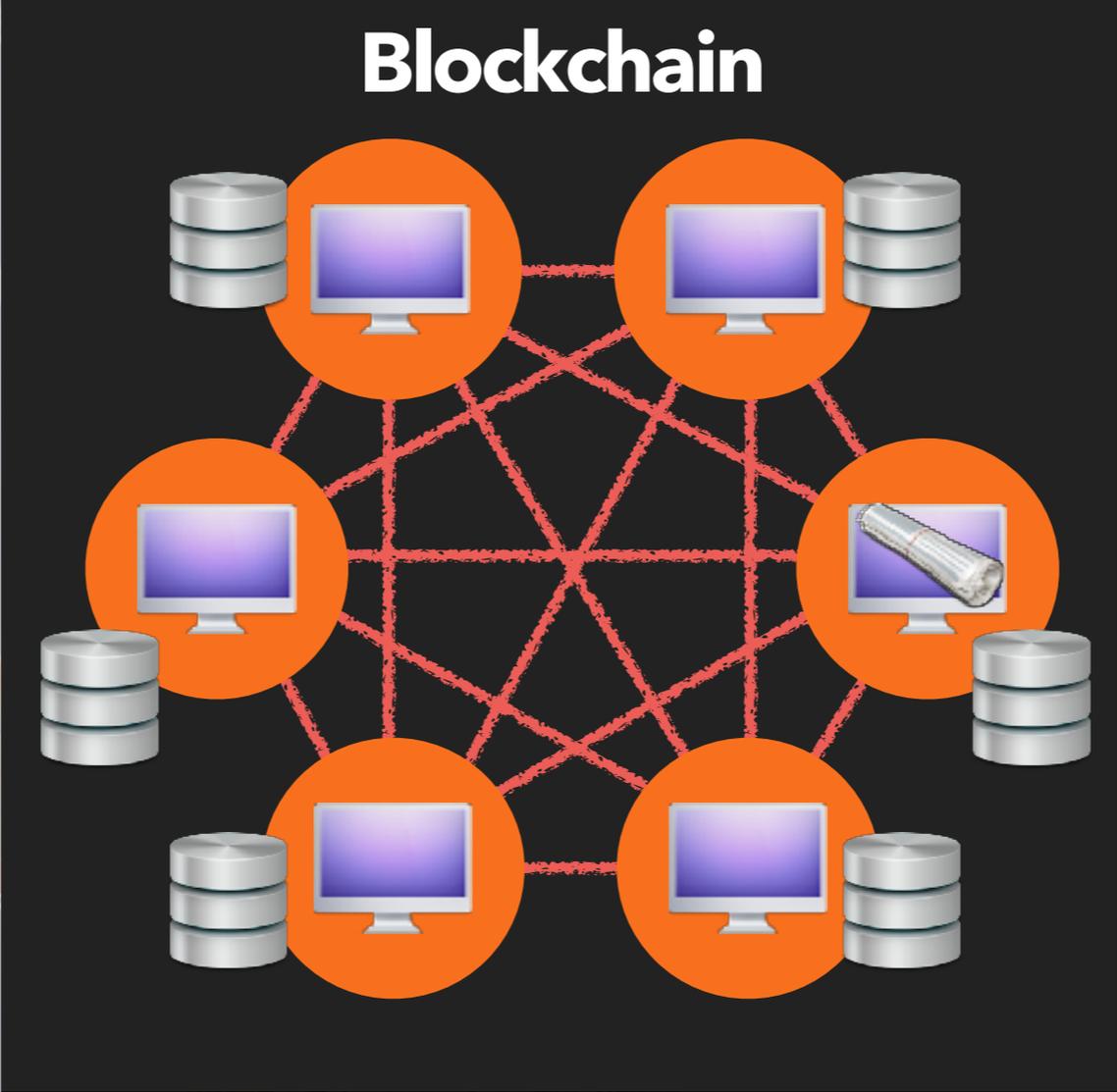
GROW



WHAT IS BLOCKCHAIN?

TOGETHER AS FACT

GROW



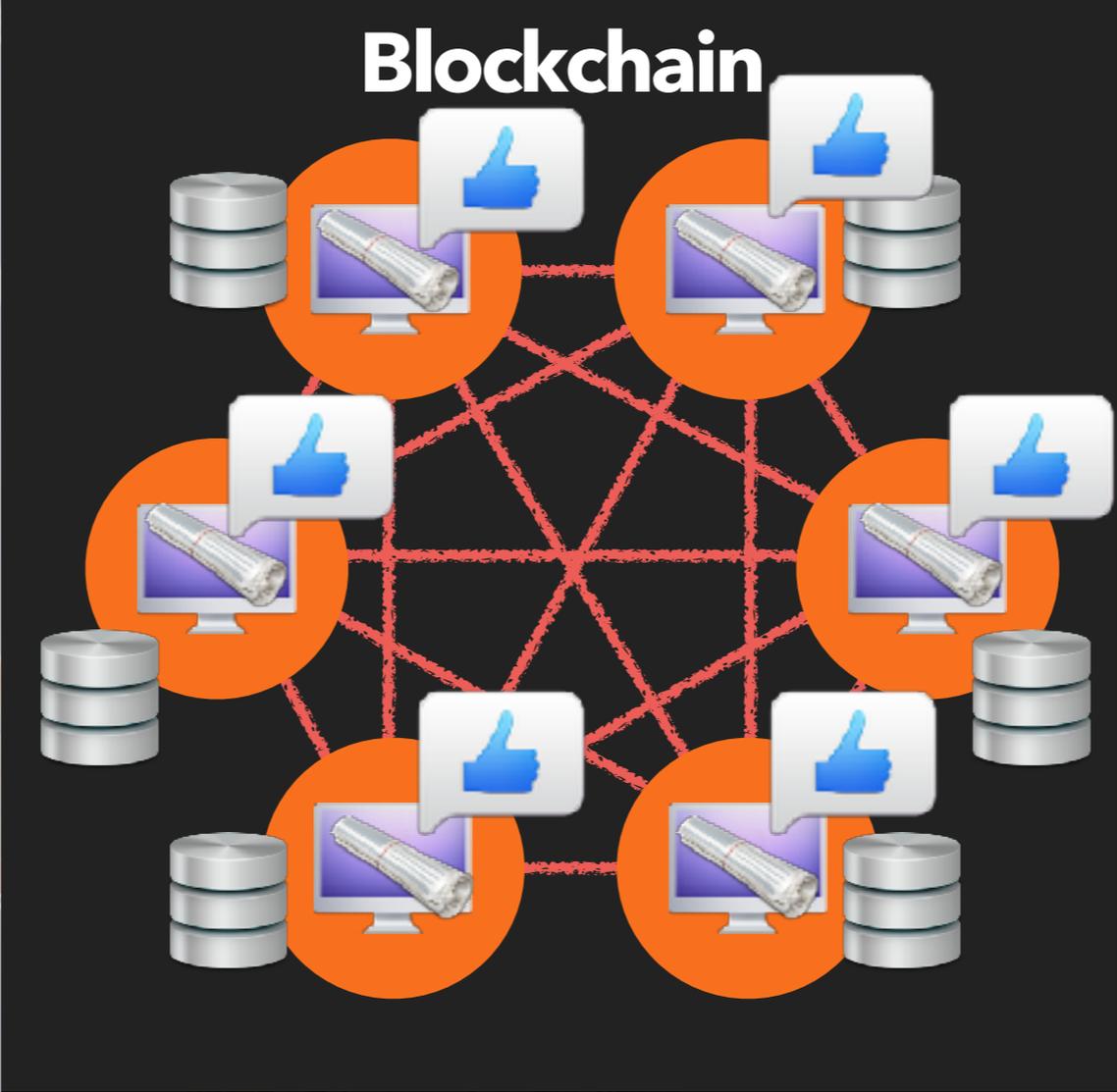
WHAT IS BLOCKCHAIN?

KEEPING THEM CONSISTENT VIA

CONSENSUS

WITH

ALGORITHM

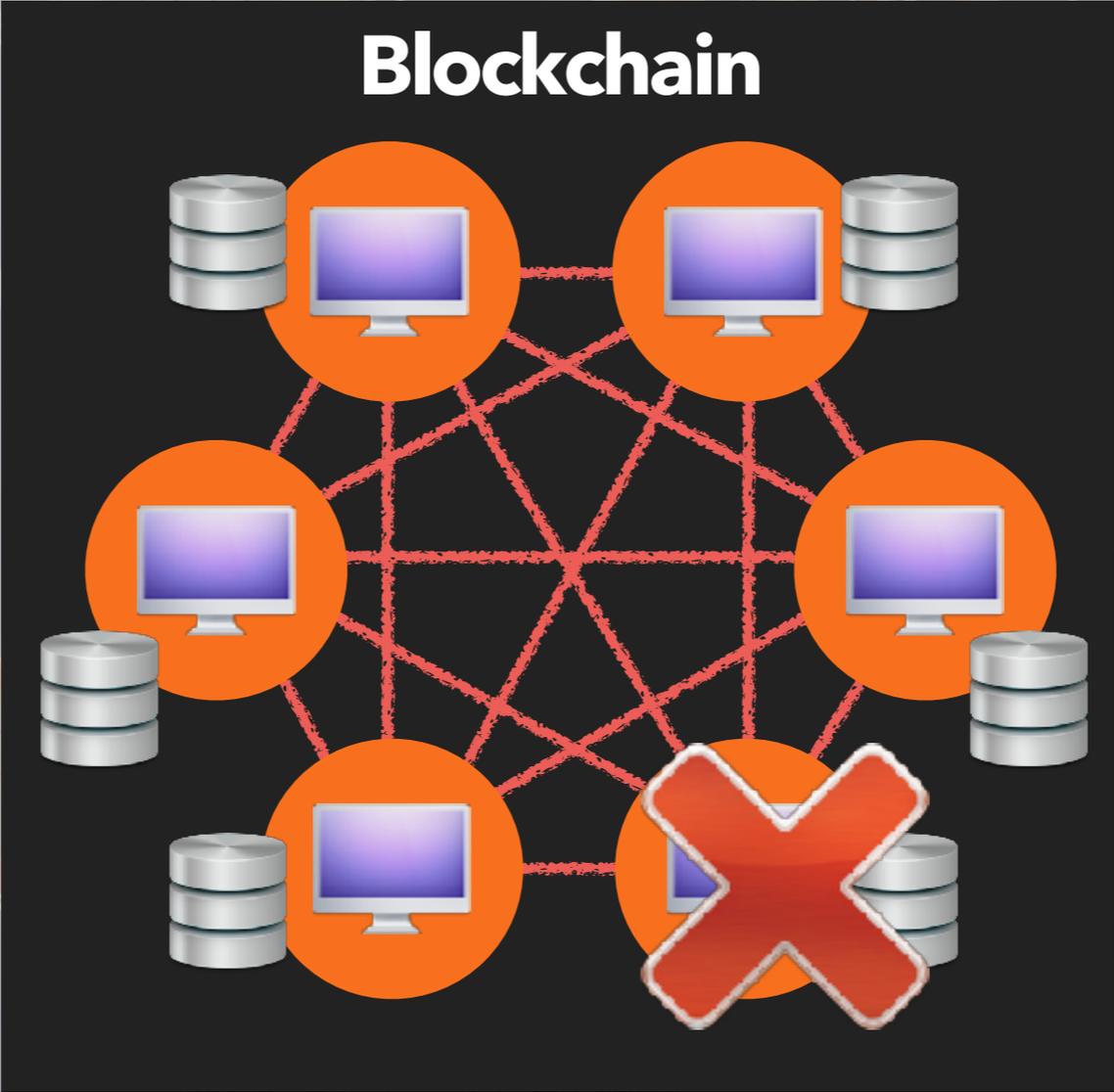


WHAT IS BLOCKCHAIN?

THAT AUTOMATICALLY

REPAIRS

FROM MISTAKES AND ERRORS

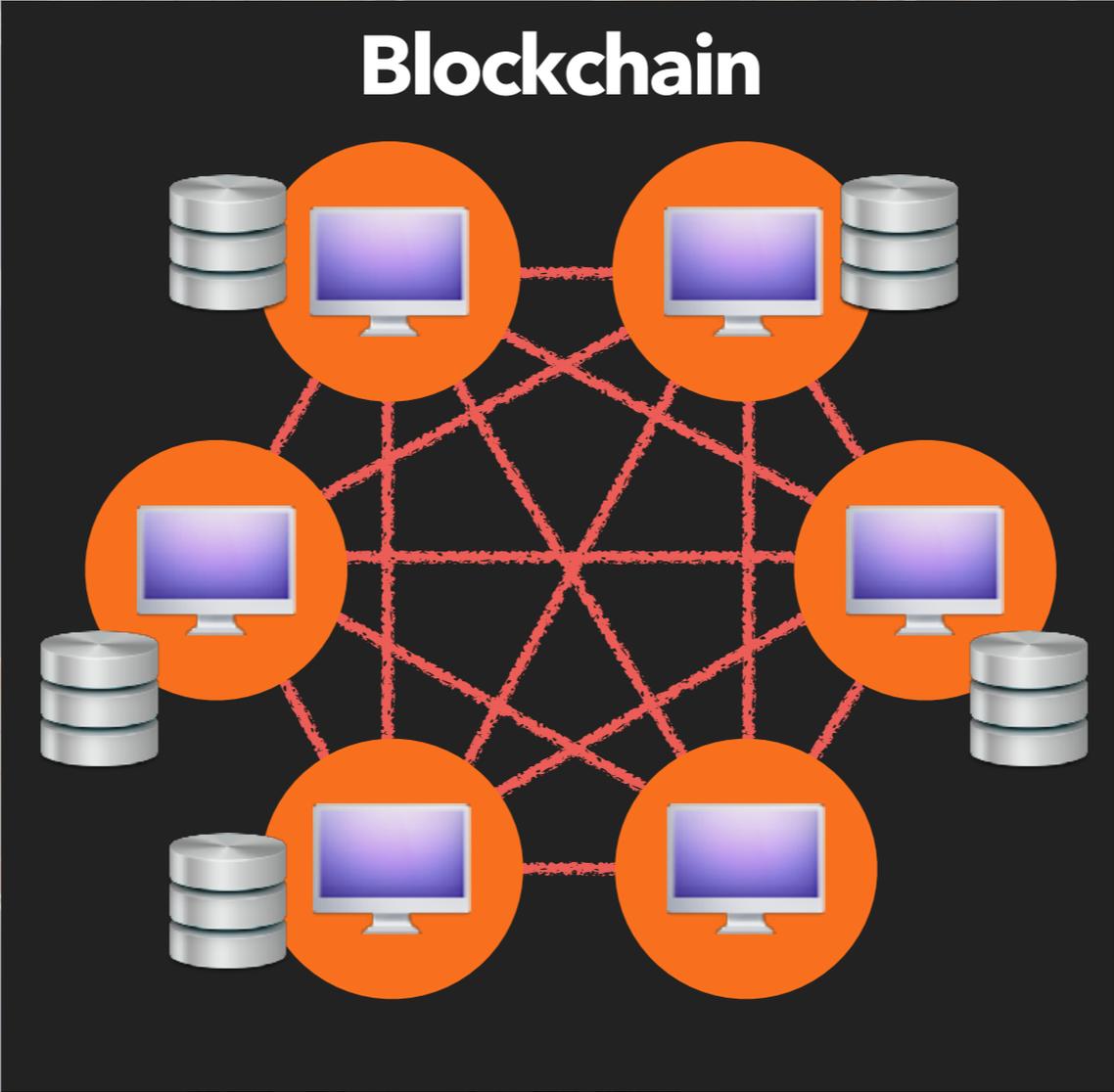


WHAT IS BLOCKCHAIN?

THAT AUTOMATICALLY

REPAIRS

FROM MISTAKES AND ERRORS



WHAT IS BLOCKCHAIN?

NETWORK OF COMPUTERS THAT

COOPERATES

TO

MAINTAIN SETS OF

FACTS

TOGETHER AS THEY

GROW

KEEPING THEM CONSISTENT VIA

CONSENSUS

WITH

ALGORITHM

THAT AUTOMATICALLY

REPAIRS

FROM MISTAKES AND ERRORS

WHERE EACH FACT IS

VALIDATED

BY ALL

PARTICIPANTS

AS THEY ARE GENERATED

AS A RESULT, THE SYSTEM CAN BE

TRUSTED

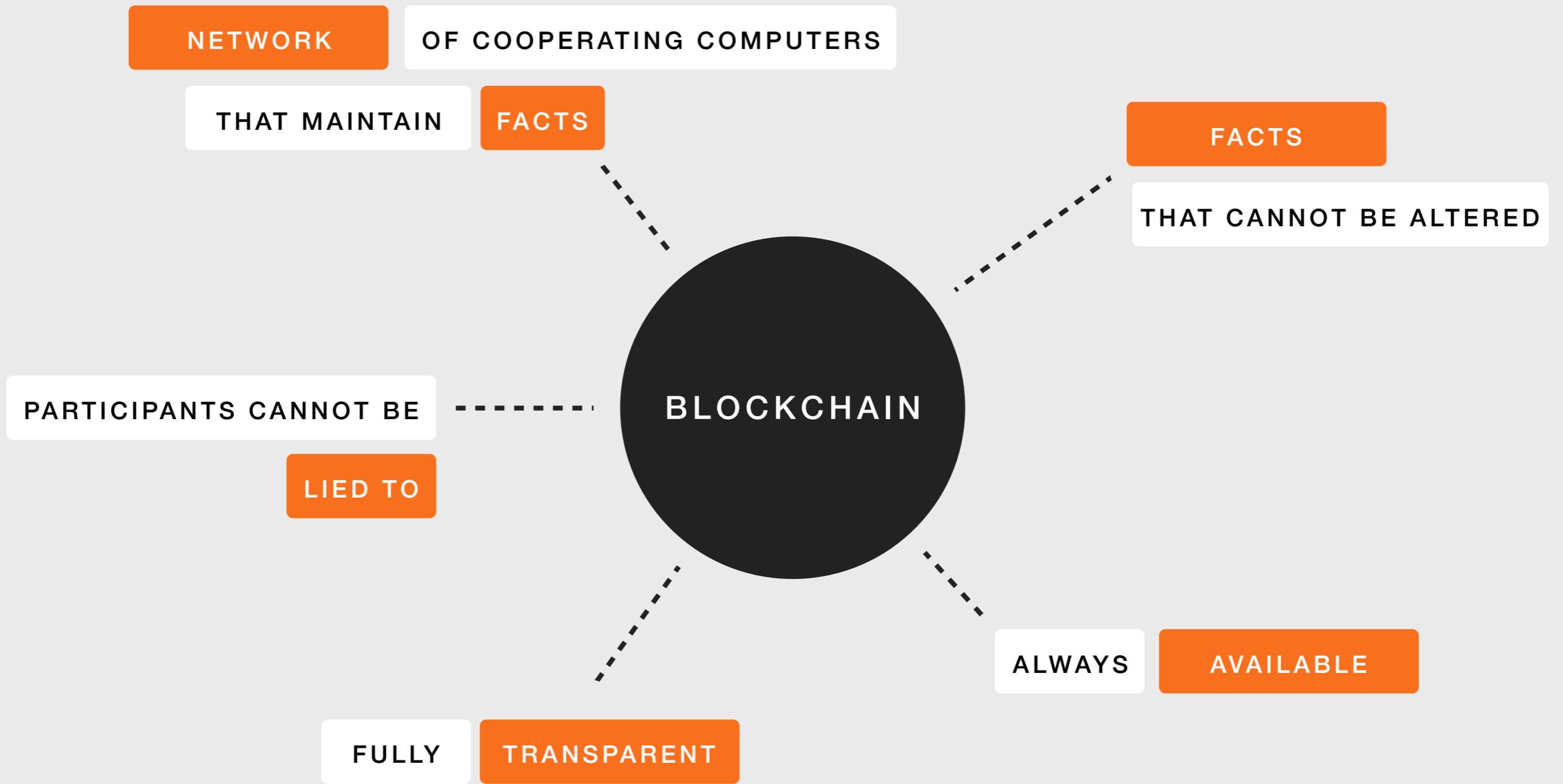
WITHOUT TRUSTING

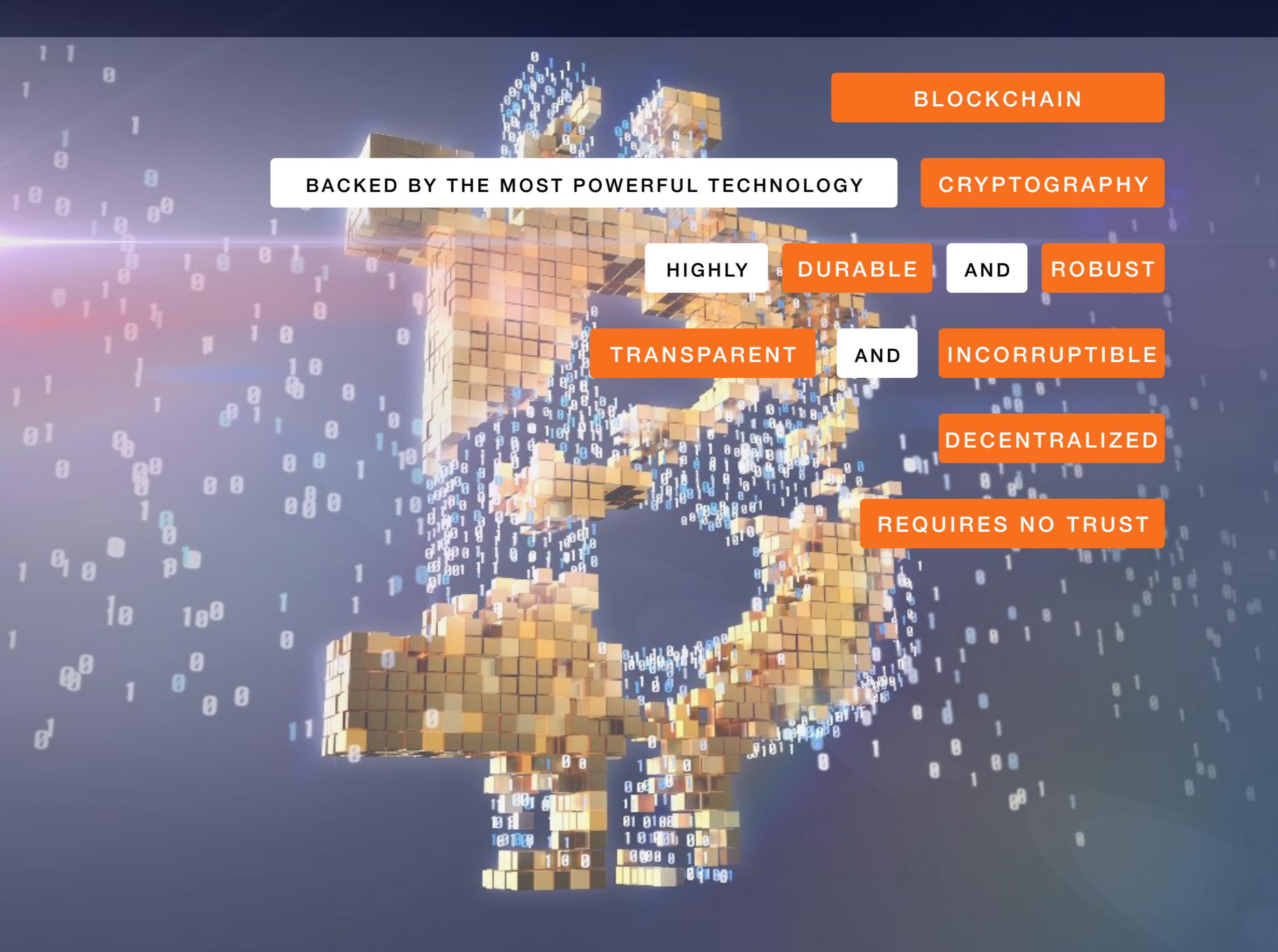
ANYONE

IN THE NETWORK

SO LONG AS YOU CAN TRUST IN THE

ALGORITHM





BLOCKCHAIN

BACKED BY THE MOST POWERFUL TECHNOLOGY

CRYPTOGRAPHY

HIGHLY

DURABLE

AND

ROBUST

TRANSPARENT

AND

INCORRUPTIBLE

DECENTRALIZED

REQUIRES NO TRUST

BLOCKCHAIN

CAN BE USED FOR MORE THAN JUST

MONEY

AKA

CRYPTOCURRENCY

SMART CONTRACT

SHARING ECONOMY AND APPLICATIONS

CROWDFUNDING

GOVERNANCE

SUPPLY CHAIN

PROVENANCE

AUDIT

DATA STORAGE

MARKETS

TRADE

TRADE FINANCE

INTERNET OF THINGS

SMART GRID

SMART CITY

IDENTITY

KYC

FRAUD PROTECTION

ANTI MONEY LAUNDERING

LAND TITLES

...

Blockchain Application for Automotive Industry

- Connected Cars
 - On car devices security — IOT + Blockchain = Data Security
- Supply Chain
- Trade Finance
- Fleet Management
- Insurance

Platform Based Ecosystem

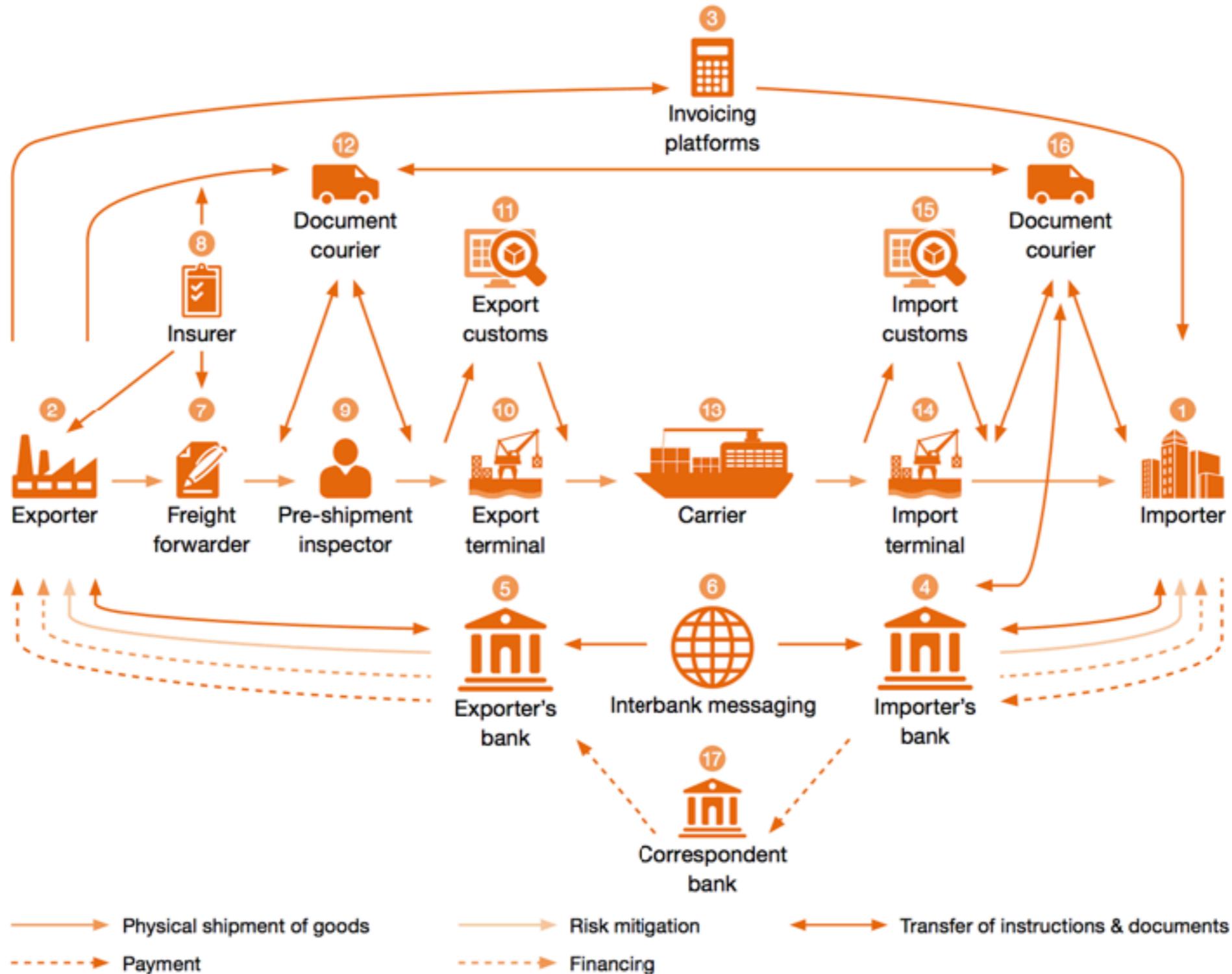
From DApps to Platform of Apps

Trade Finance

2 Supply chain and logistics optimisation

Supply chains are complex systems, involving on the physical side suppliers, producers and distributors. The logistics chain requires support streams for invoicing, documentation and regulatory requirements.

Fig. 7 Typical logistics chain





Future State Vision



1 Upon purchase, the agreement of sale between the importer and exporter is shared with import bank using a Smart Contract on the Blockchain

1



2 In real-time, the import bank will have capability to review purchase agreement, draft terms of credit and submit obligation to pay to export bank

2



3 Goods will be inspected by 3rd parties and the customs agent in the exporting country - with all providing their respective digital signature of approval on the Blockchain smart contract



4 After receiving the obligations, the exporter will digitally sign Blockchain-equivalent letter of credit within the smart contract to initiate shipment



5 Export bank will review the provided payment obligation and once approved, a Smart Contract will be generated on the Blockchain to cover terms & conditions and lock-in obligations

3

5

4



6 During transit, goods will be transported from Country A to Country B

6



7 Upon delivery, importer will digitally acknowledge receipt of goods and trigger payment

7



8 Using provided acknowledgement, Blockchain will automate payment from importer to exporter via a Smart Contract

8

Blockchain Advantages



Real-time review:

Financial documents linked and accessible through Blockchain are reviewed and approved in real time, reducing the time it takes to initiate shipment



Transparent factoring:

Invoices accessed on Blockchain provide a real-time and transparent view into subsequent short-term financing



Disintermediation:

Banks facilitating trade finance through Blockchain do not require a trusted intermediary to assume risk, eliminating the need for correspondent banks



Reduced counterparty risk:

Bills of lading are tracked through Blockchain, eliminating the potential for double spending



Decentralized contract execution:

As contract terms are met, status is updated on Blockchain in real time, reducing the time and headcount required to monitor the delivery of goods



Proof of ownership:

The title available within Blockchain provides transparency into the location and ownership of the goods



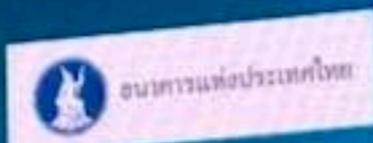
Automated settlement and reduced transaction fees:

Contract terms executed via Smart Contract eliminate the need for correspondent banks and additional transaction fees



Regulatory transparency:

Regulators are provided with a real-time view of essential documents to assist in enforcement and AML activities



Thailand BLOCKCHAIN Community Initiative



Power/Energy Trading



P2P TRADING

This class of Platform Application gives retailers the ability to empower consumers (or in an unregulated environment, the consumers themselves) to simply trade electricity with one another and receive payment in real-time from an automated and trustless reconciliation and settlement system. There are many other immediate benefits such as being able to select a clean energy source, trade with neighbors, receive more money for excess power, benefit from transparency of all your trades on a blockchain and very low-cost settlement costs all leading to lower power bills and improved returns for investments in distributed renewables.



NEO-RETAILER

This class of Platform Application provides Neo-retailers' with smart demand and supply management, along with almost instantaneous remuneration and payment settlements while managing consumer exposure to the risk of non-supply.



MICROGRID/EMBEDDED NETWORK OPERATOR/STRATA

This type of Platform Application enables electricity metering, big data acquisition, rapid micro transactions and grid management at an unprecedented granular scale. Trading in embedded networks breaks the nexus between generation ownership and energy consumption meaning value can be derived from an investment in DER even if the investor is absent or doesn't consume all the energy they generate.



WHOLESALE MARKET SETTLEMENT

This Platform Application class offers rapid low-cost and transparent dispatch optimization and management, data aggregation, reconciliation and settlement for wholesale energy marketplaces.



AUTONOMOUS ASSET (AA) MANAGEMENT

This current Platform Application allows for (1) shared ownership of renewable energy assets and (2) trading renewable asset ownership. The AA is able to buy and sell its own electricity and distribute its income to assigned wallet addresses.



DISTRIBUTED MARKET MANAGEMENT

This Platform Application provides optimized metering data, the collection of big data, right to access and dispatch of assets, rapid transaction settlement, network load balancing, frequency management, demand side response and demand side and load management. The optimization of network assets is made viable by the near real-time



ELECTRIFY.ASIA

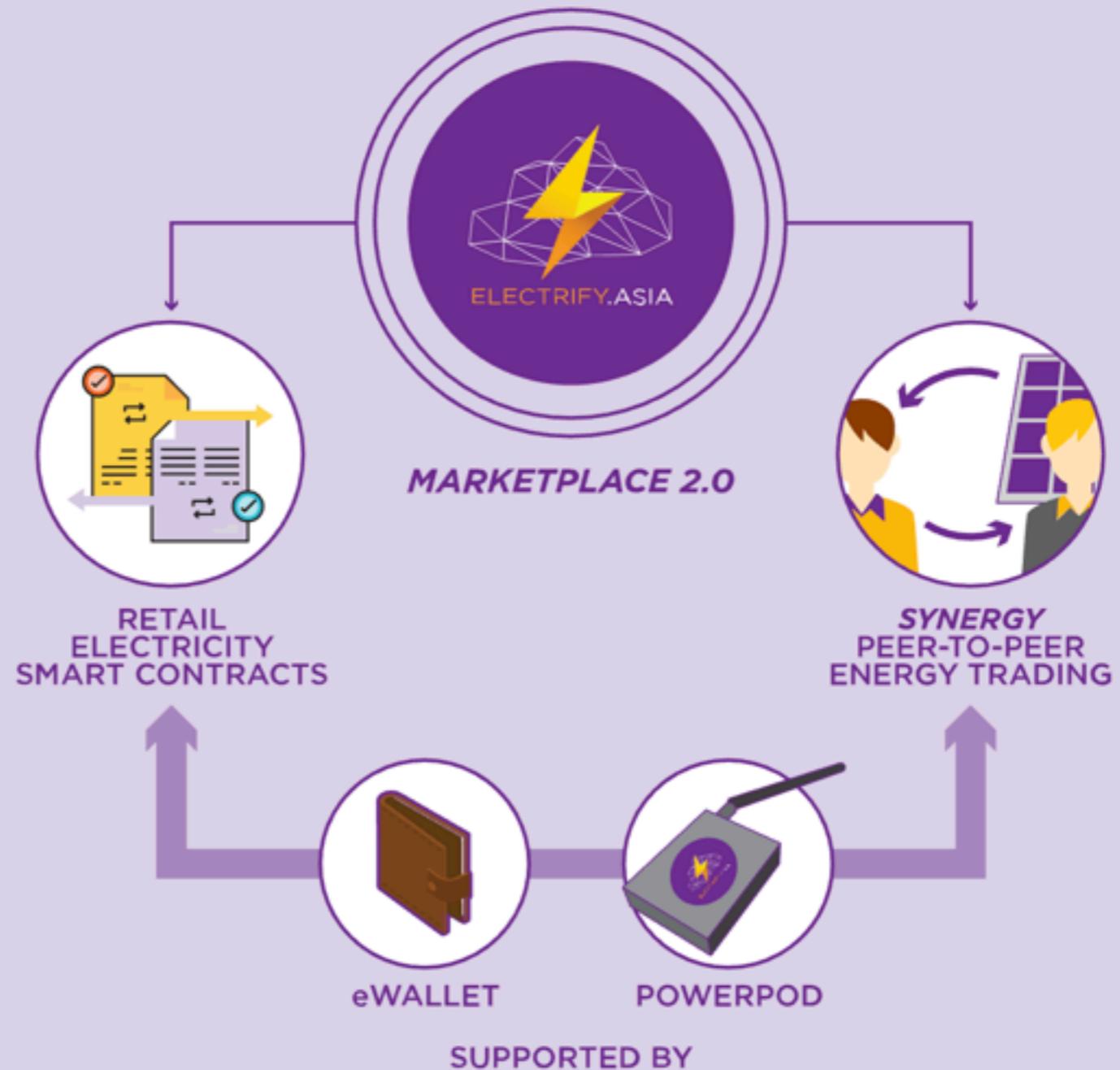
ENERGY MARKETPLACE (Current business)



RETAIL
ELECTRICITY
CONTRACTS

WEB APPLICATION

ELECTRIFY ECOSYSTEM (To be developed)



WEB & MOBILE APPLICATION

What do we plan to develop?



Marketplace 2.0

Marketplace 2.0 will be a web and mobile platform allow consumers to purchase energy from electricity retailers or directly from their peers (P2P) with smart contracts and blockchain.



Synergy

Synergy allows consumers to buy power directly from small-scale producers, such as residential rooftop solar and wind turbines. This removes the middleman, reducing energy costs for all consumers.



E-Wallet

eWallet will be used to facilitate payments via the smart contracts, allowing consumers to pay for their energy usage for payments in the Electrify ecosystem.



PowerPod

To accurately track and audit the output from a small-scale solar panel, we have developed an IoT smart device to measure and execute P2P trades via Synergy smart contracts. PowerPod will log energy produced onto a blockchain.



Building the grid's digital DNA.

The Energy Web is an open-source, scalable blockchain platform specifically designed for the energy sector's regulatory, operational, and market needs. It serves as a foundational, shared, digital infrastructure for the energy and blockchain community to build and run their solutions. Together, the Energy Web Foundation, Affiliates, and Community are unleashing blockchain's potential to accelerate the transition to a decentralized, democratized, decarbonized, and resilient energy system.

[>> Learn More](#)

It's not all business

Fun and Games are booming

Digital World



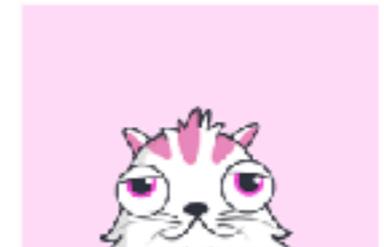
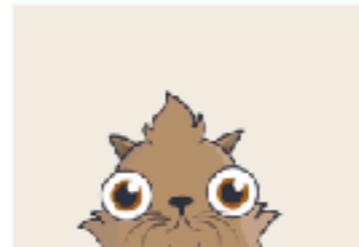
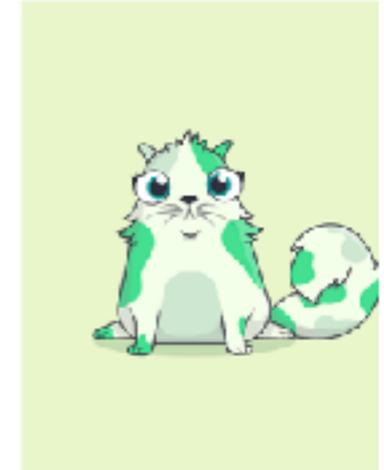
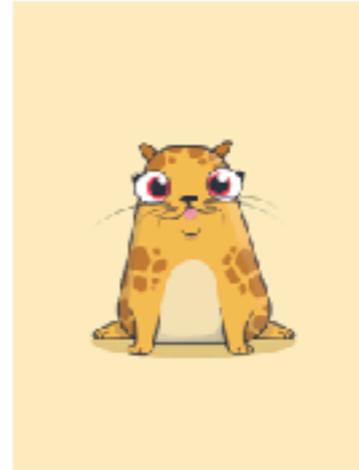
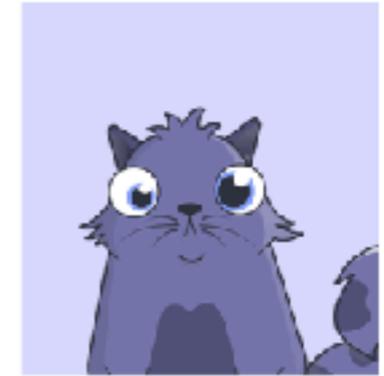
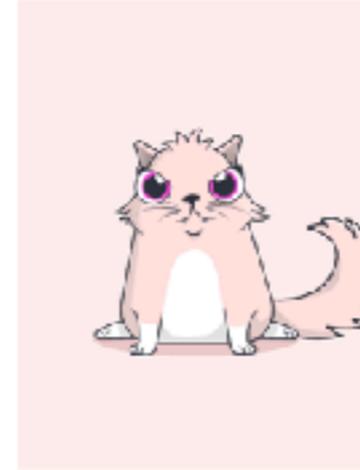
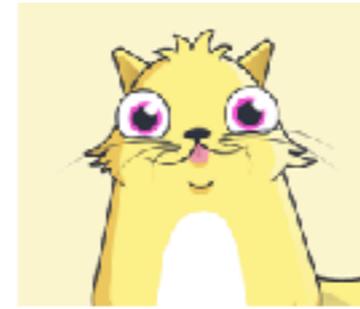
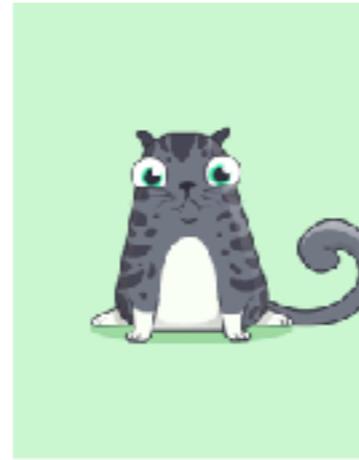
CryptoKitties

[Sign in](#) [Marketplace](#)

Collectible. Breedable. Adorable.

Collect and breed digital cats.

Start meow





What is CryptoKitties?

CryptoKitties is a game centered around breedable, collectible, and oh-so-adorable creatures we call CryptoKitties! Each cat is one-of-a-kind and 100% owned by you; it cannot be replicated, taken away, or destroyed.

What's the big deal?

CryptoKitties is one of the world's first games to be built on blockchain technology—the same breakthrough that makes things like Bitcoin and Ethereum possible. Bitcoin and ether are cryptocurrencies but CryptoKitties are cryptocollectibles. You can buy, sell, or trade your CryptoKitty like it was a traditional collectible, secure in the knowledge that blockchain will track ownership securely.

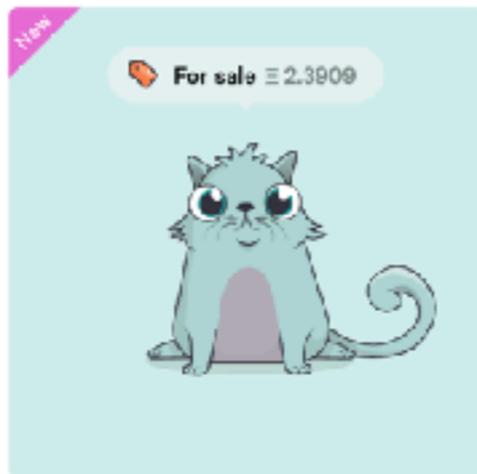
Search Kitties...

For Sale Siring Gen 0 All Kitties

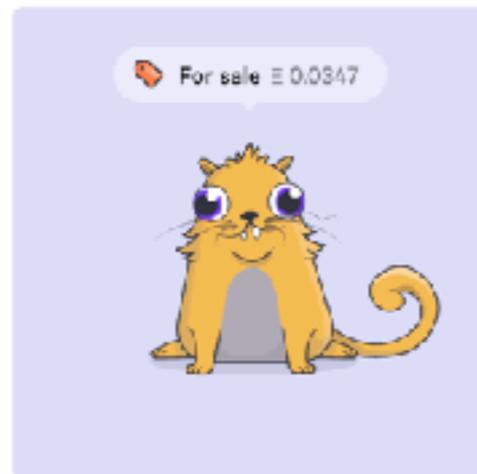
Sort by Youngest first

68,184 results

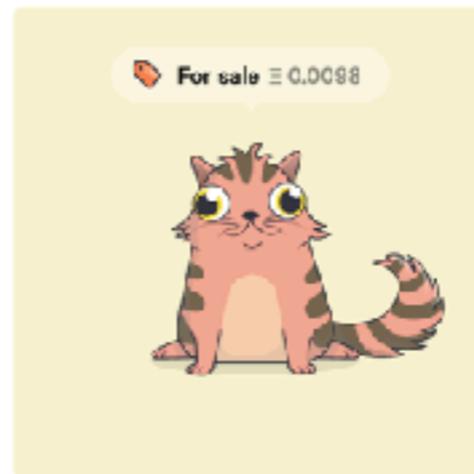
Filter results



Kitty 288755 - Gen 0
Fast



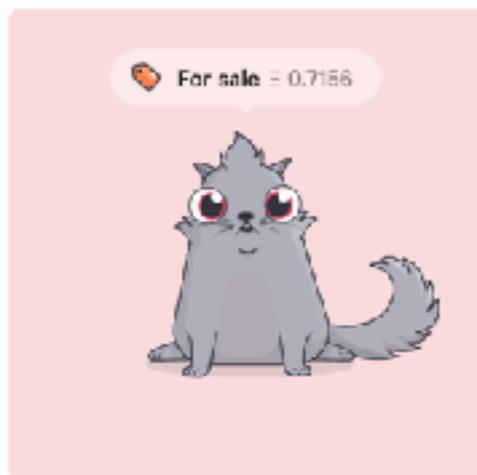
Kitty 288700 - Gen 4
Swift



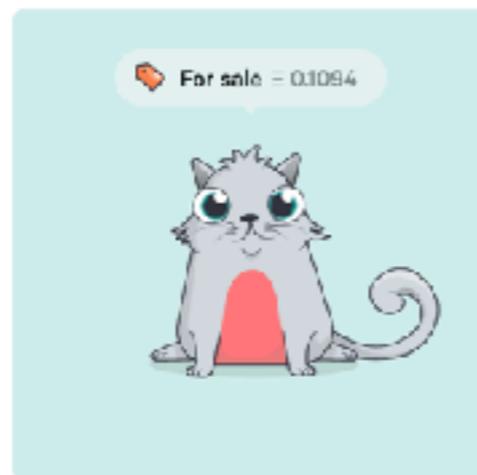
Kitty 288674 - Gen 4
Swift



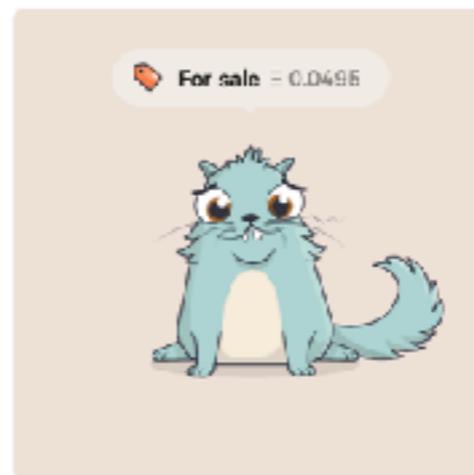
Kitty 288664 - Gen 3
Swift



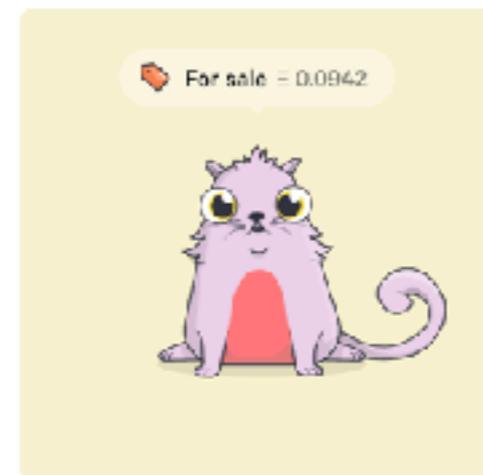
Kitty 288655 - Gen 3
Swift



Kitty 288651 - Gen 3
Swift



Kitty 288639 - Gen 5
Swift



Kitty 288633 - Gen 2
Swift





Conclusion: The Future is Meow

Our team believes in the potential of blockchain technology, but we're frustrated by the state and direction of its public perception.

We genuinely believe that education, an accessible user experience, and practical application are the missing factors for broader adoption. We strive to communicate this belief with CryptoKitties, Rufflet (our winning project at the ETHWaterloo Hackathon), and any any future blockchain projects our team works on.

We still see numerous opportunities to innovate with blockchain technology. With CryptoKitties, we're exploring digital scarcity, an exciting but underexplored concept that blockchain empowers.

CryptoKitties is the world's first game built on the Ethereum blockchain. It makes the blockchain approachable for the everyday consumer and brings us but a small step closer to widespread adoption of cryptocurrencies and blockchain technologies.

In our cheekily-titled "catifesto," we state that we didn't want to change the future, but rather, we wanted to have fun with it. That's not entirely true - we genuinely believe the power of fun and games can shape blockchain's future for the better.

We can't be sure that CryptoKitties will be a runaway success, a flash in the pan, or a blip on blockchain's biography. Like all things related to blockchain, the future is in flux.

But we do believe in a few things:

- We believe in blockchain's potential
- We believe in this product
- We believe in our team
- We believe in our community

Gambling Platform

WIN MASSIVE AMOUNTS OF ETHER!

vDICE IS THE MOST POPULAR ETHER BETTING GAMES IN THE UNIVERSE



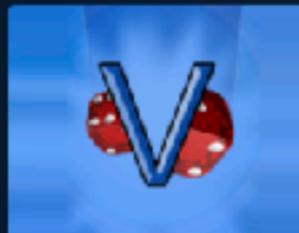
No Account Needed



Payouts are Nearly Instant



Play from Anywhere



vDice Game

BET COUNTER

70,236

ETHER WON

16,653

Step 1

Send ETH to a Game Address below. Min. Gas 180000.

Step 2

A Random Lucky Number Is Chosen.

Step 3

Win comes back to you automatically. Loss sends you back 1 Wei.

WIN COMES BACK TO YOU AUTOMATICALLY. LOSS SENDS YOU BACK 1 WEI

Game Address

0x4e646A576917d6A...

Win Odds

5%

Multiplier

x 19.6200

Lucky Number

≤ 500

Min. Bet

0.2210...

Max. Bet

0.45838775

Play



DAO.Casino

Blockchain protocol for gambling

Sign up for our Newsletter



CREATED BY FOUNDERS OF

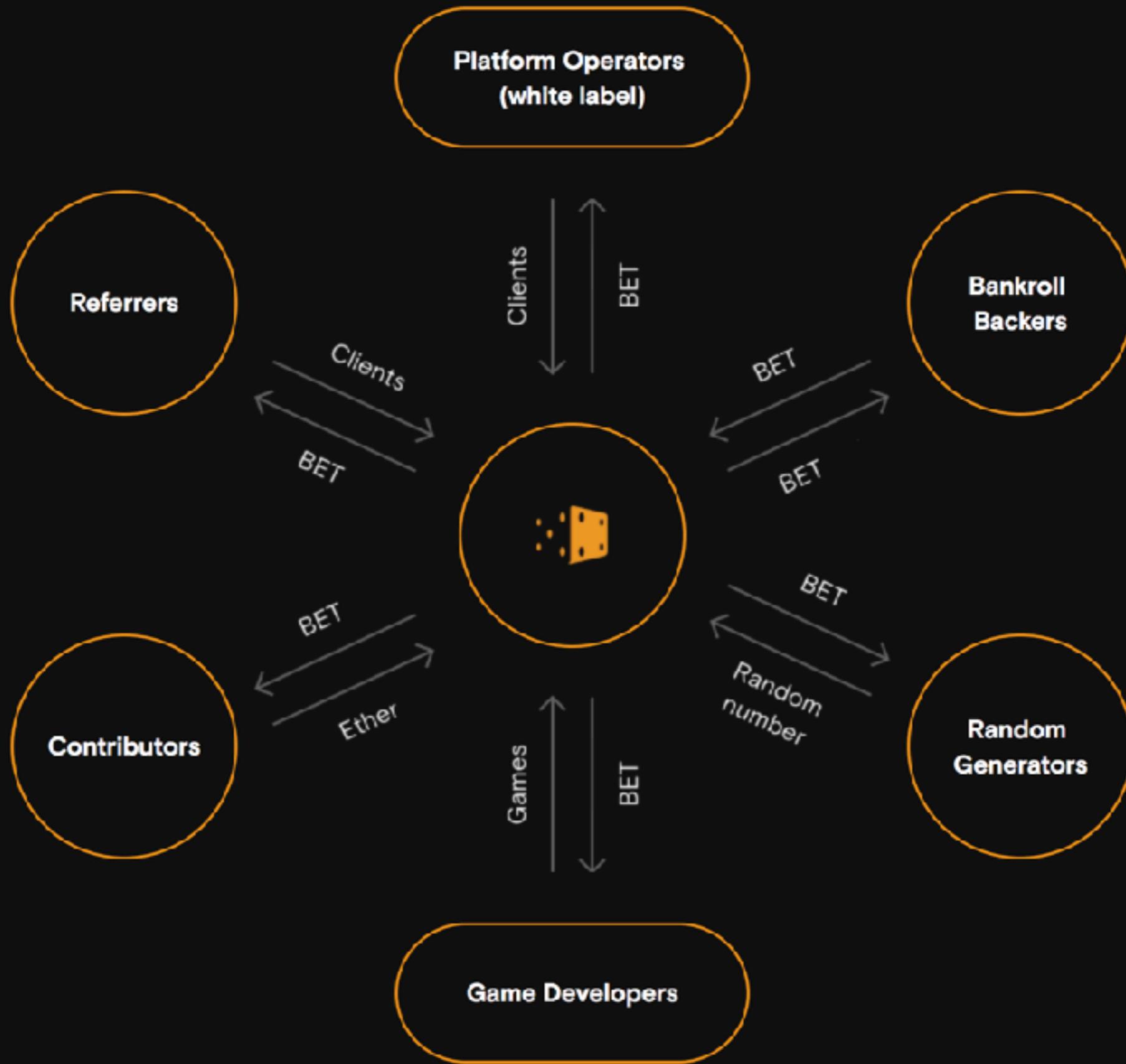
Satoshi Fund



cyber
Fund

AIRA DAO
environment

Drone
employee



*BET = DAO.Casino tokens

ICO

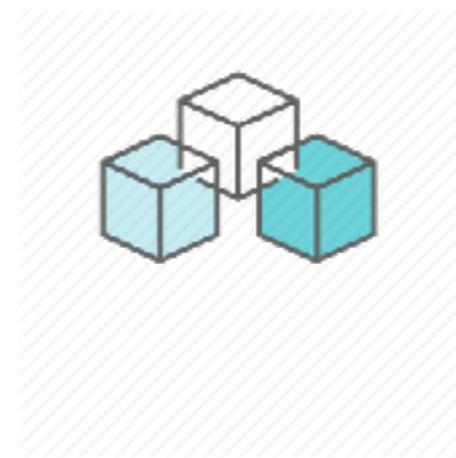
Initial Coin Offering

What is ICO?



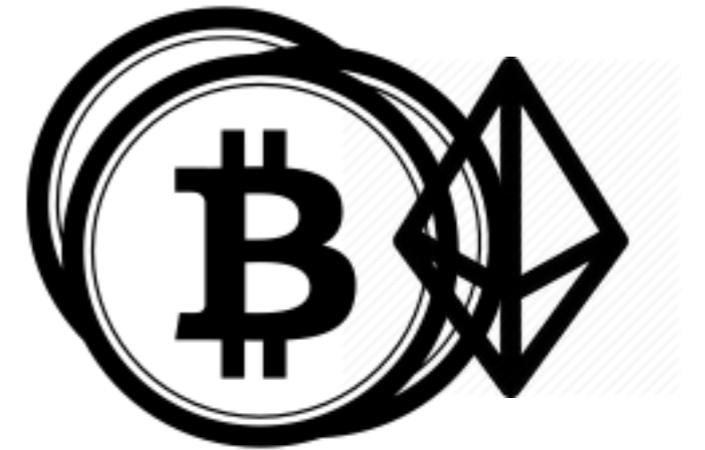
Crowdfunding

+



Blockchain

+



Cryptocurrency

**Innovator/Entrepreneur
of Project with
good idea**

**Trusted platform
that enforces
contract/rules**

**Programmable &
Independent
payment channel,
accessible globally**

ICO vs. IPO

- ต่างกันอย่างไร?
- Mechanics
- Ecosystem
- Process

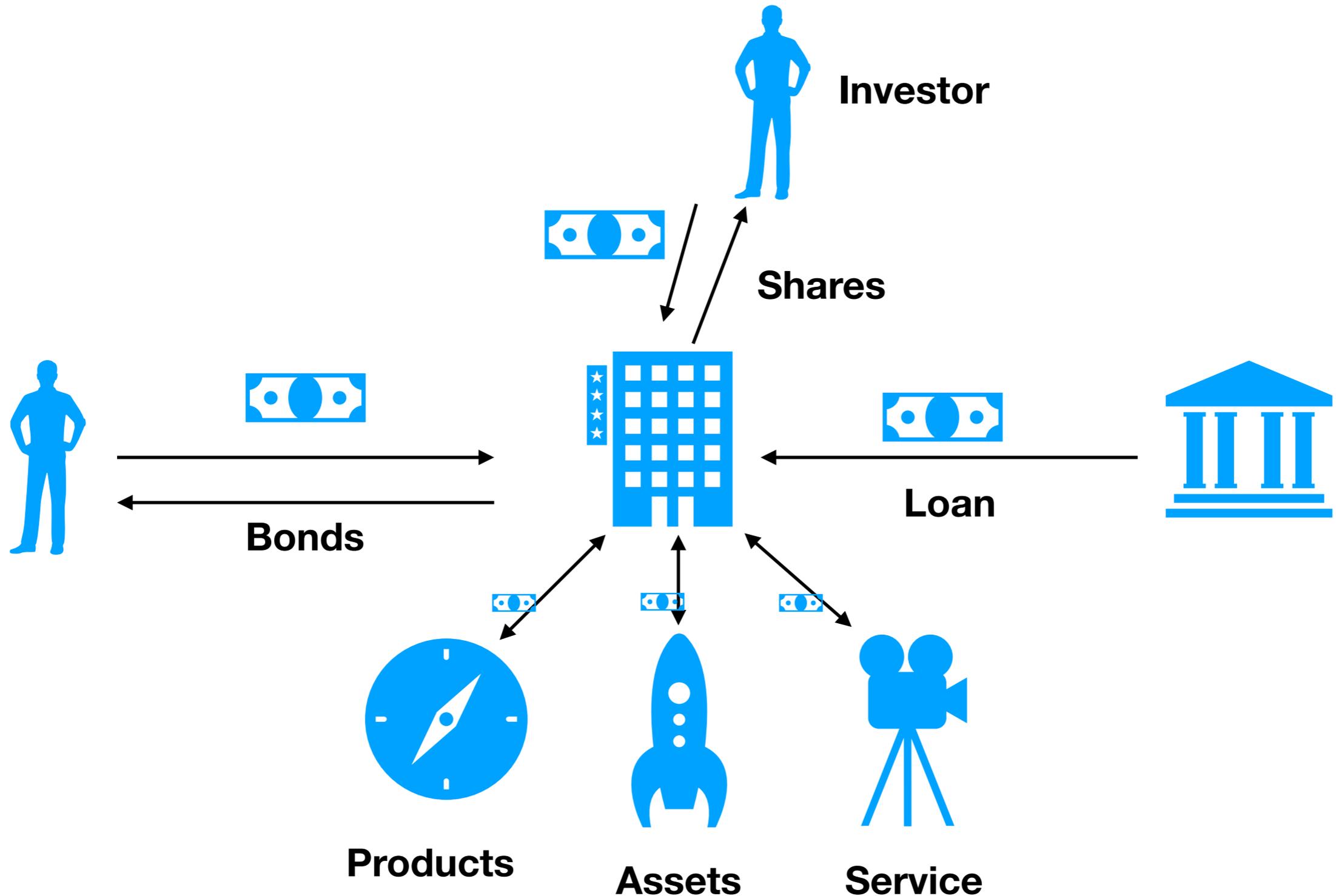
Mechanics of ICO vs. IPO

Mechanics	ICO	IPO
Units	Token of value	Equity (Share)

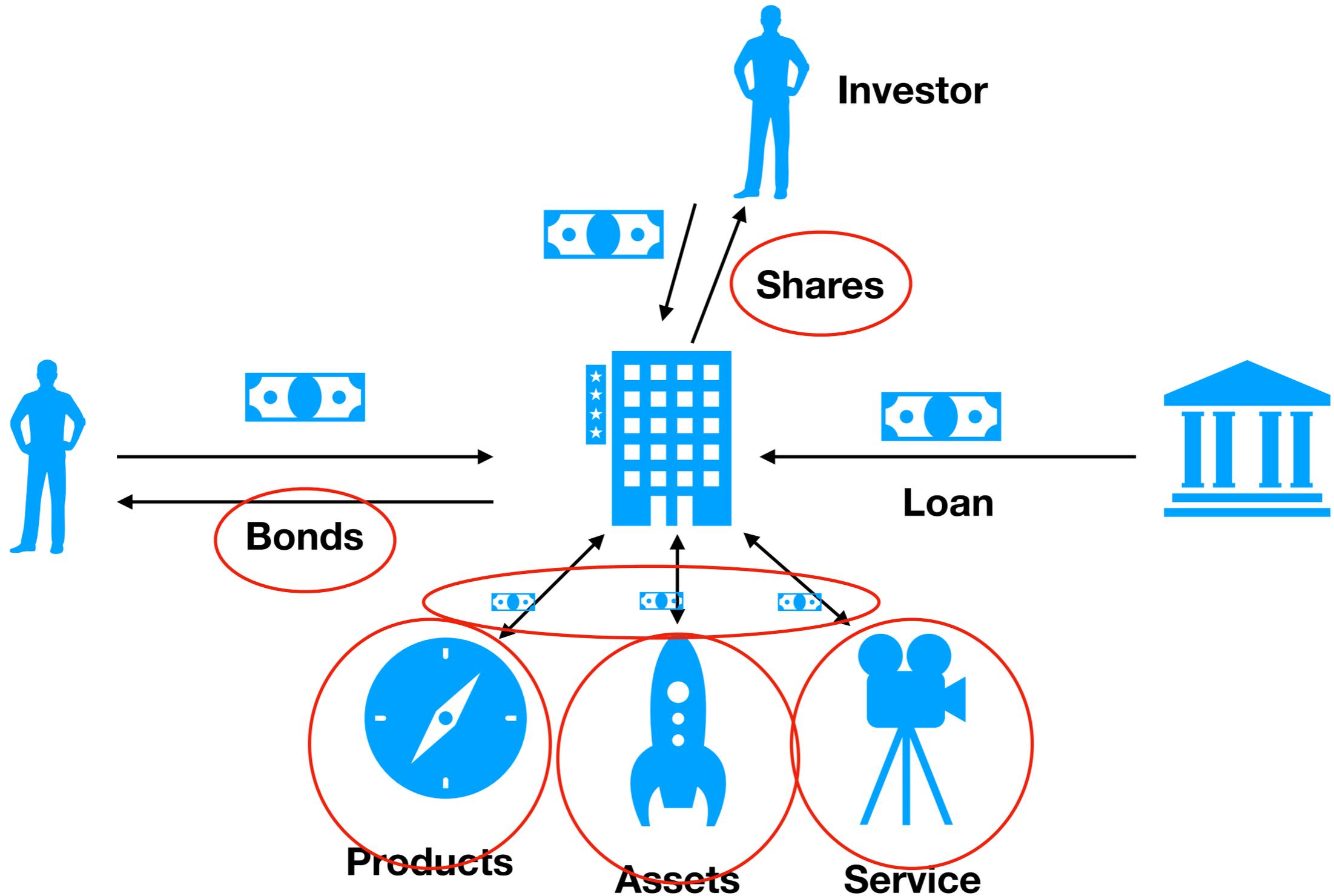
ICO = No share dilution

What is a token?

Traditional Business ways of raising funds



Token



Token

- Unit of value that can represent anything that can be exchange, trade, or profit from
- This includes
 - Coupons
 - Securities
 - Shares
 - Bonds
 - etc.....

Mechanics of ICO vs. IPO

Mechanics	ICO	IPO
Units	Token of value	Equity (Share)
Registration	Blockchain	SET
Regulation & Enforcement	Blockchain	SEC

Ecosystem

- IPO
 - Rigid rules and regulation
 - Such as silent period
 - Books audit
 - Controlled communication method
- ICO
 - Free for all (No rules and regulation)
 - More startup friendly
 - Web-board/forum for communication and discussion
 - Social media for promotion

Process

- IPO
 - Run business —> Profit —> Prepare business —> Plan —> Filing —> Silent Period —> IPO —> Funded!
- ICO
 - Build project Idea —> Write white paper —> announce plan —> Discuss with community —> Revise if necessary —> Launch Crowdsale —> Build project —> Run business —> Profit
- VC
 - Build Project Idea —> Pitch —> Negotiation with VCs —> Close rounds —> Build project —> Next round

Type of ICO

ICO

- Utility
- Debt
- Equity
- Security

Is ICO for every startup?

- No.
- It's not going to make owner rich.
 - You actually need to design the project to ensure token value appreciate over time
 - Basic idea is, the project must generate value for the user and investor, and not just the owner.
- Vital requirement:
 - Cryptocurrency or token must be integrated organically into your project's business model in a way that generate value for the token as the project/business grows

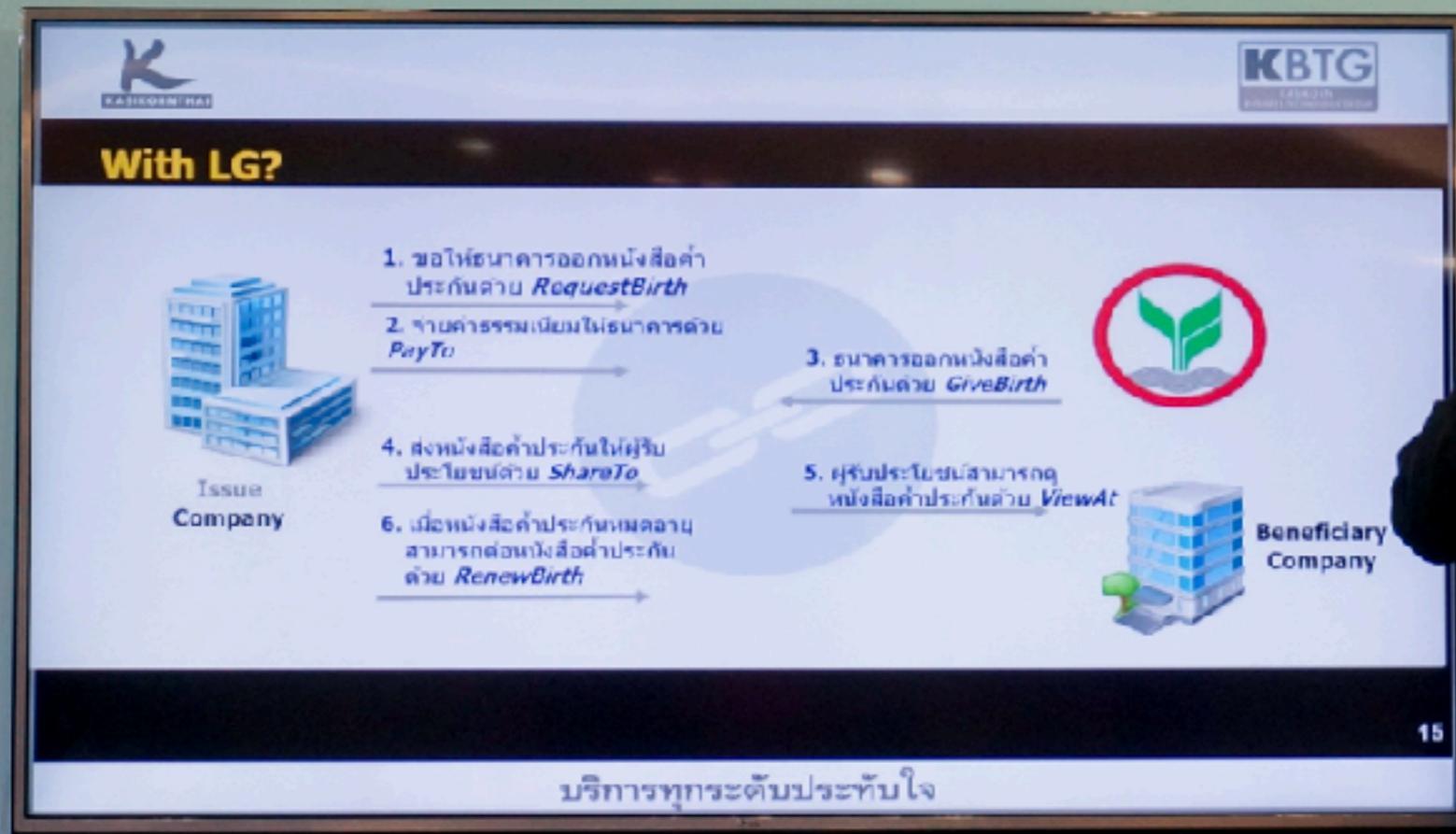
Key Success Factor of ICO

- The team, The goals, The protection of investor's interest
 - Goals & Investor's interest should be clearly spelled out in the **whitepaper**
 - It is a good idea to also build a **roadmap** of the project
 - **Proof of concept** is also very helpful (although many ICO are idea-only)
 - Premium **discount** for **early investor** ensure investor's interest is preserved
 - Setup **independent entity** that participate in ensuring proper use of money
 - Methods for **returning funds** to investor if project fail

Blockchain Application in Thailand

State of the industry

Unlocking the New Possibilities with



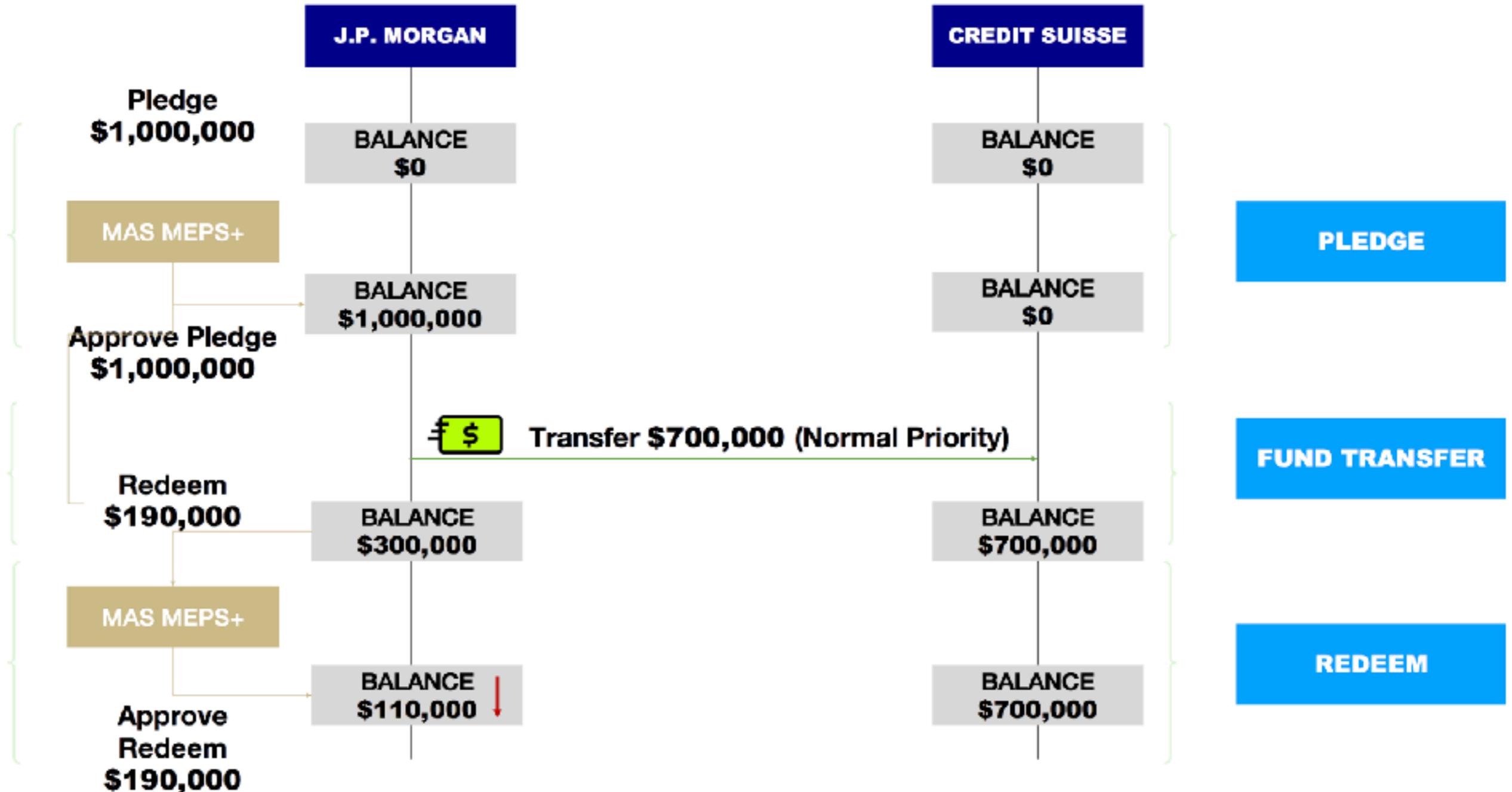
mxphone



Thailand BLOCKCHAIN



Wholesale CBDC



Healthcare



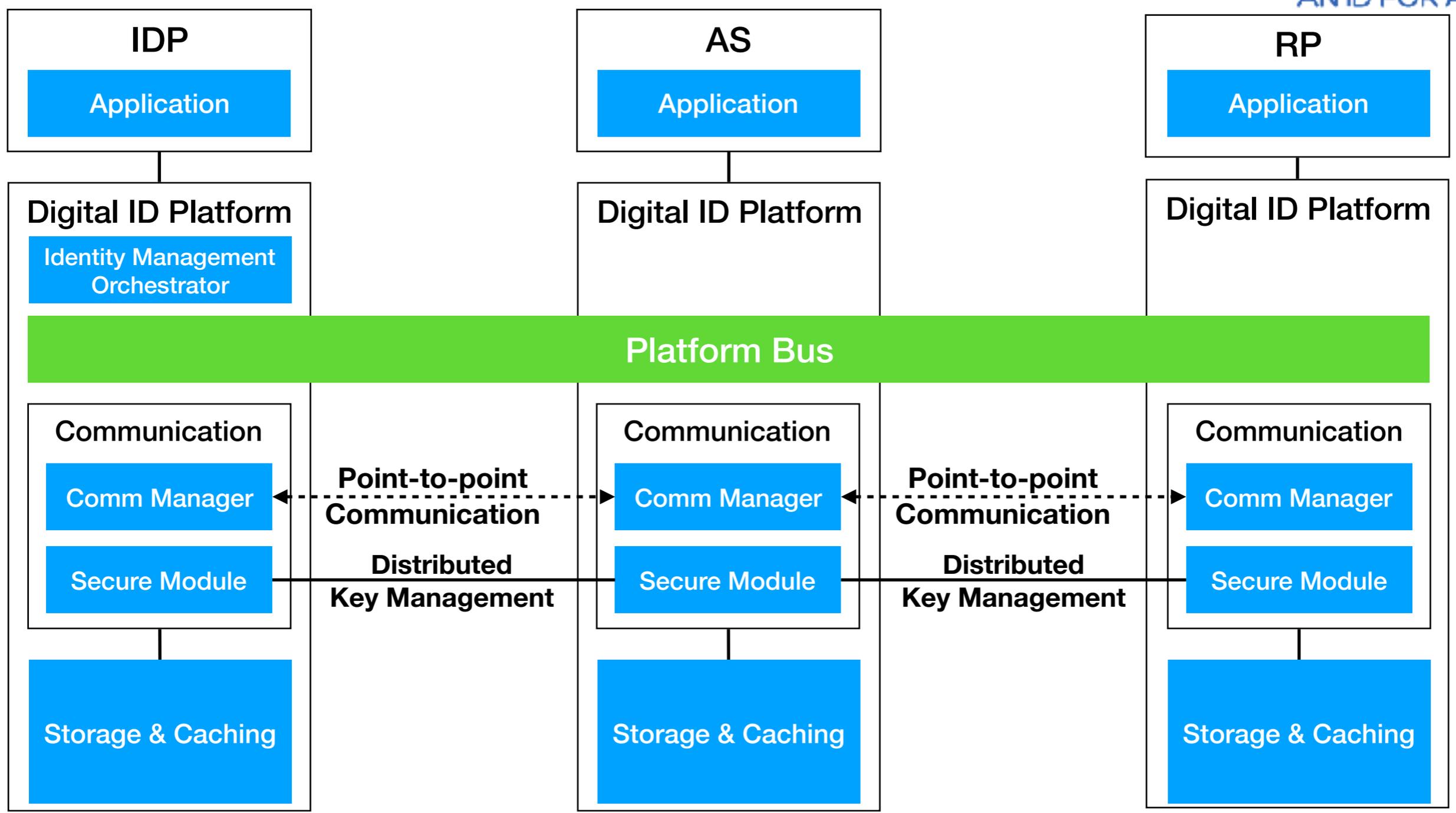
MEDICAL RECORDS on BLOCKCHAIN

Revolutionizing Electronic Health
Records (EHR) Interoperability

Blockchain as a service

The screenshot shows a web application interface for 'Platooreum | Blockchain Private Network : Setup in 1 Click'. The interface is divided into several sections:

- Header:** 'Platooreum Version 0.1.2 (Beta)' and 'Ethereum - Blockchain Private Network : Setup in 1 Click'.
- Start Private Blockchain:** A dark grey panel with the text 'Start Private Blockchain' and 'Just click Start Node; to ENTER your private blockchain'. It contains two buttons: 'Stop Node' (blue) and 'Get Connect Node' (orange).
- Wallet Information:** A teal panel with a user icon, the title 'Wallet Information', and the following details:
 - Address : 0x401727f3007e3efb78ac6ac76aa17f8b7fb21b49
 - Balance : 165.00 ethIt also includes a 'Connect http://localhost:3917' link and a 'Stop Miner' button (orange).
- Block and Node Status:** Three circular icons with data:
 - Block: 33 (with a checkmark icon)
 - Last Block: 3 s ago (with an hourglass icon)
 - Node: 0 (with a network icon)
- Transactions:** A bar chart showing transaction activity with green bars of varying heights.
- Footer:** 'Power by Entercorp Co., Ltd.' on the left and 'Control' and 'Help' icons on the right.

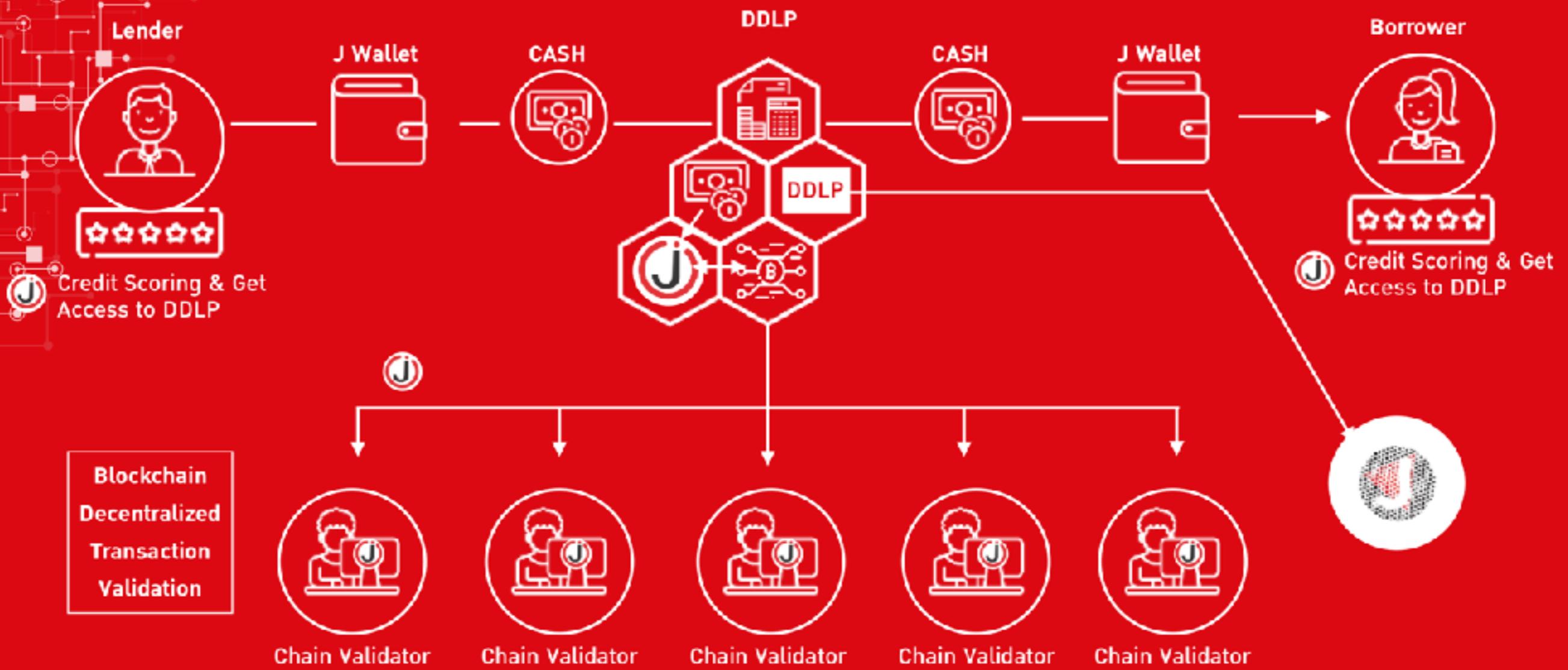


Other on going projects

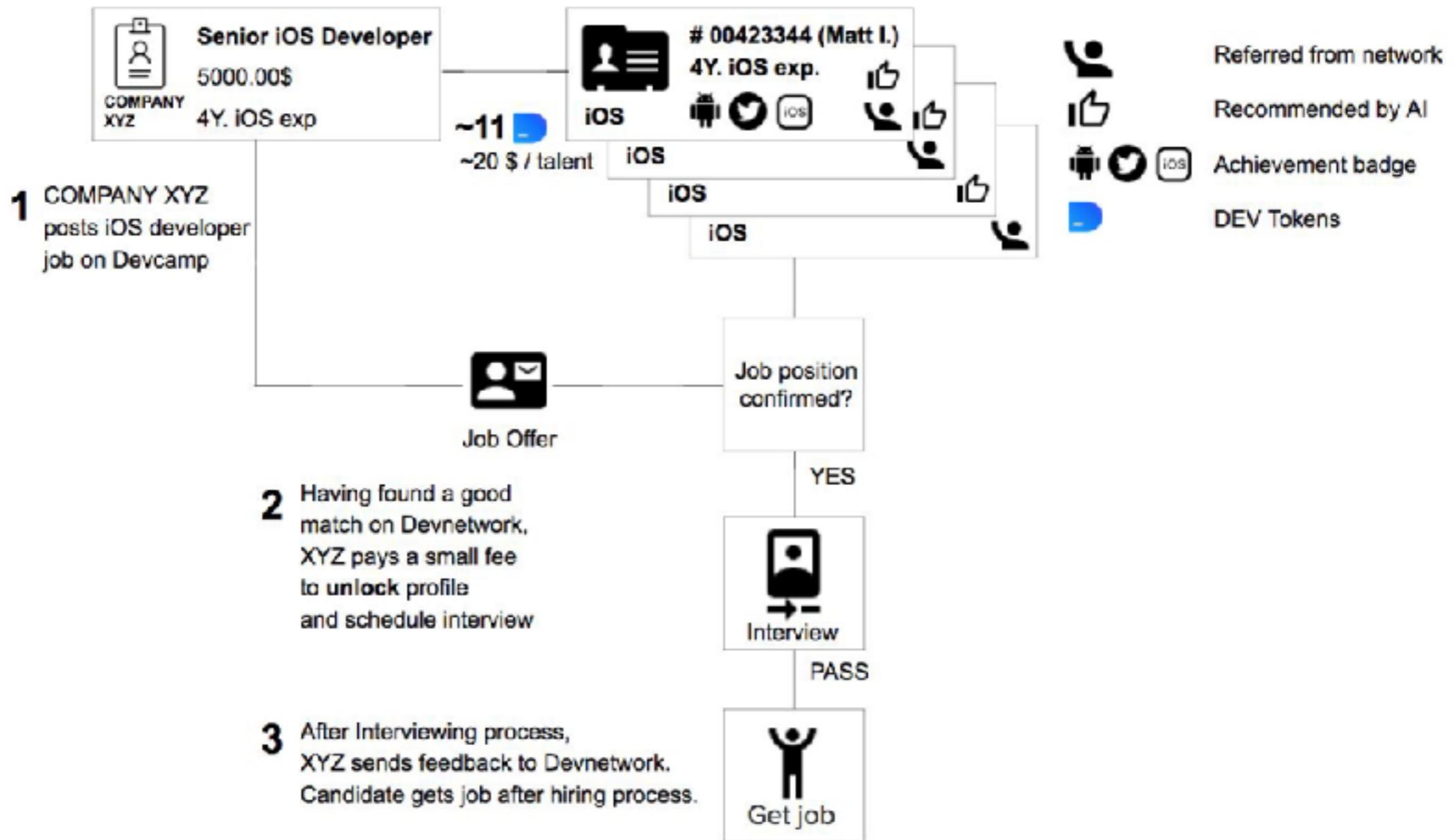
- Academic Certificate on Blockchain
- eTax Invoice
- Invoicing and Factoring
- Trade Finance
- SME Registration
- Health Information Exchange
- Miscellaneous other asset digitization projects

ICO projects in Thailand

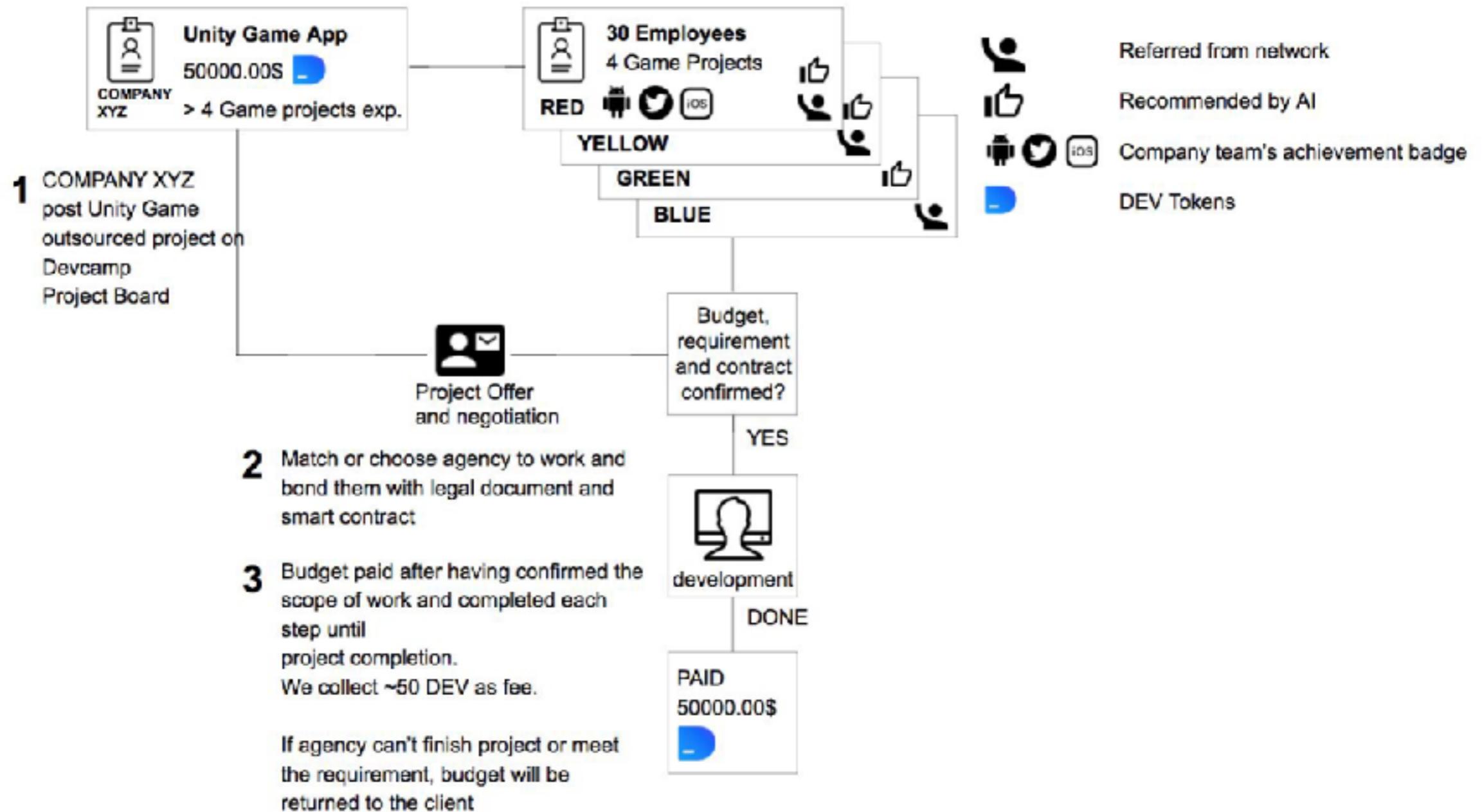
ระบบ DDLP และ JFin Coin Utility Token



5.1.1. Devnetwork Job diagram



5.1.2. Devnetwork Project diagram



Carboneum

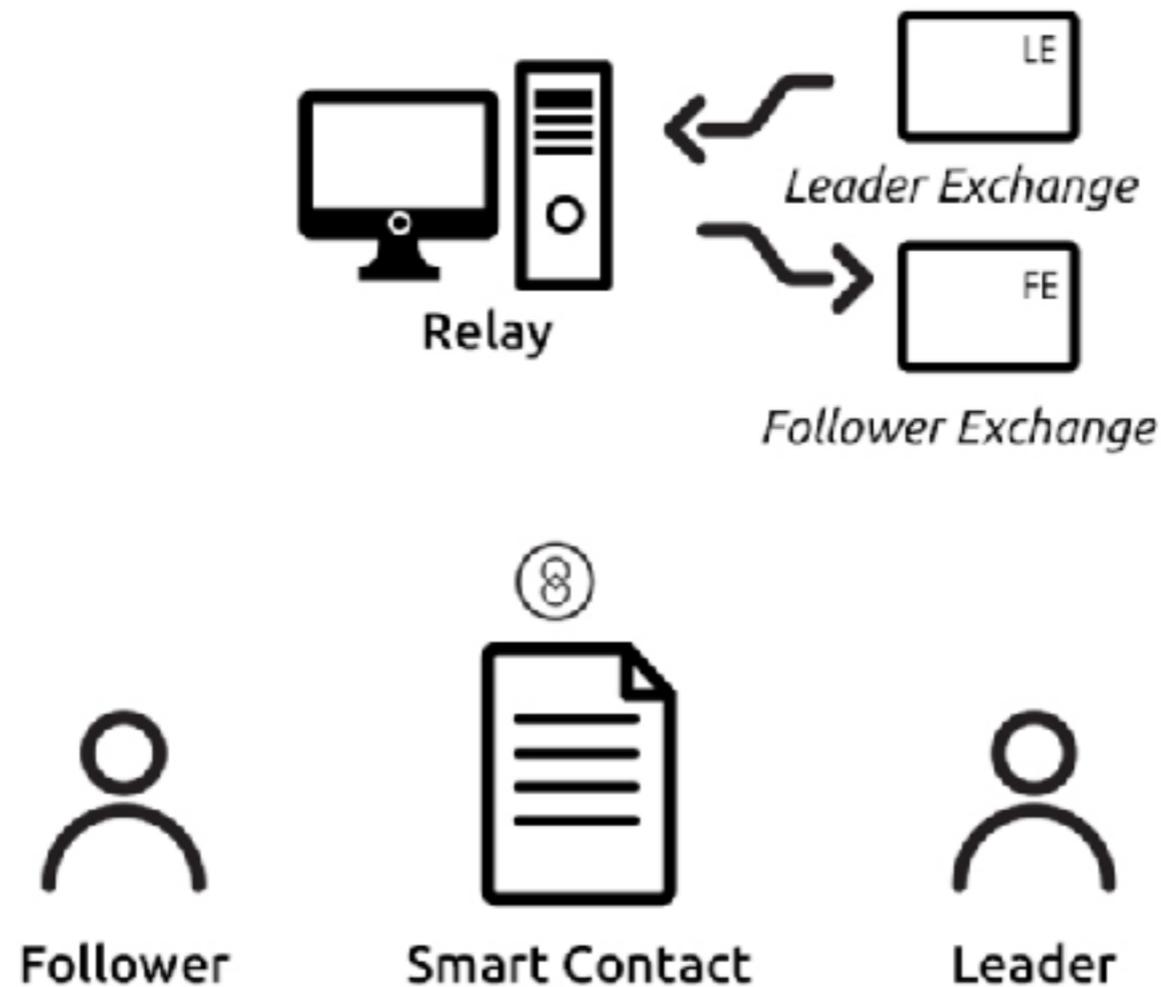


Figure 7: Technicality of Trading Mechanism on Carboneum – a leader provides access to their investment account, similarly to the way website giving away API key to third parties, to Carboneum and a follower. Relay will keep track of any changes in the leader's trading activities on their exchange(s) via exchange API and API key provided by the user.

Six.network



Image 1: The 3-Layer Economic Infrastructure of Six.network

Tokenization Exchange

Keep loyalty, credit card points, web credits, milage, reward points, in one places

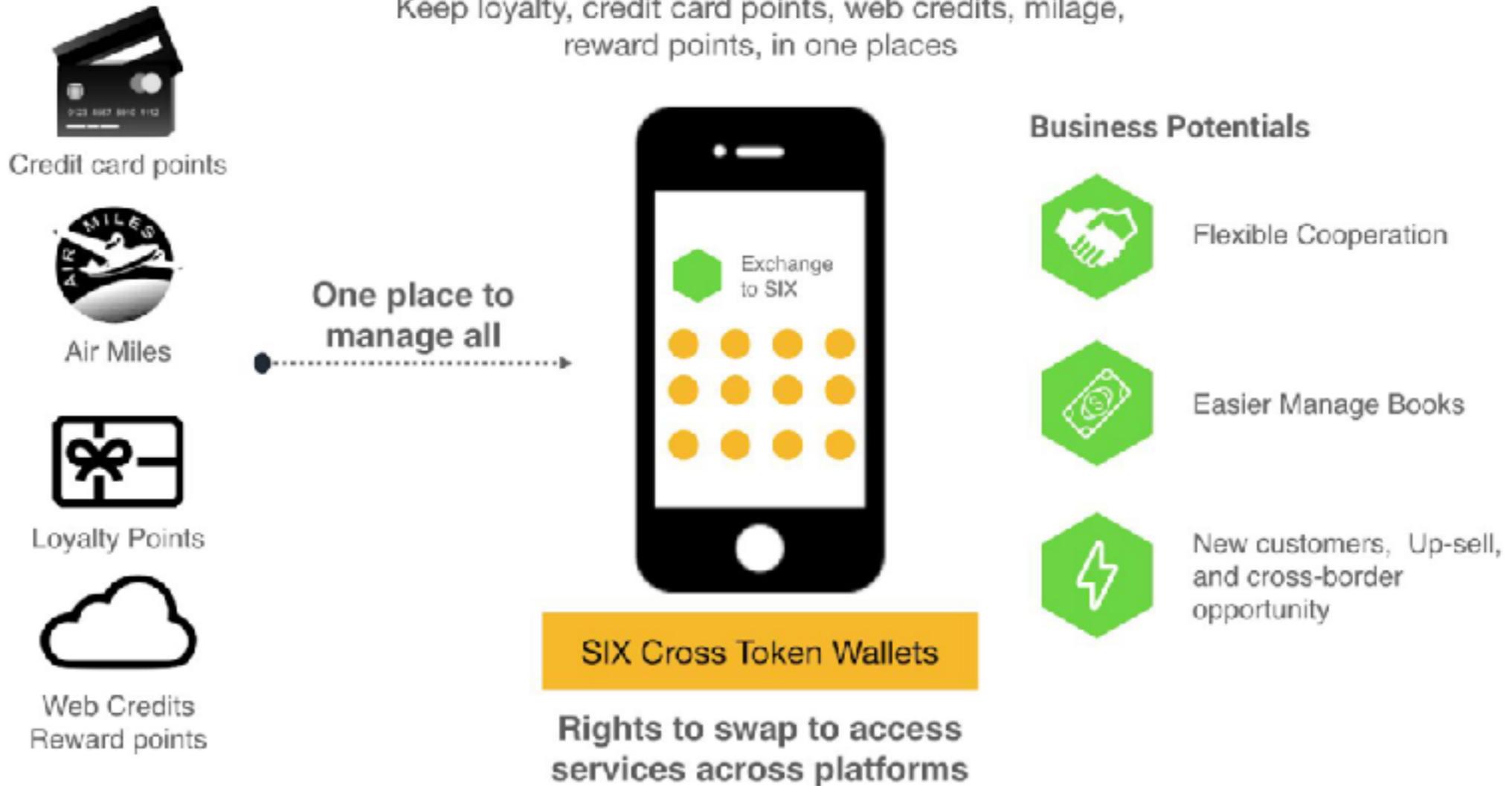


Image 7: Tokenization Exchange

Law and Regulation

1. Scope การกำกับดูแลสินทรัพย์ดิจิทัลภายใต้ พ.ร.ก.



หมายความรวมถึงหน่วยข้อมูลอิเล็กทรอนิกส์อื่นใดตามที่คณะกรรมการ ก.ล.ด. ประกาศกำหนด

กำกับดูแล

- การเสนอขายโทเคนดิจิทัลต่อประชาชน
- การประกอบธุรกิจสินทรัพย์ดิจิทัล (exchange / broker / dealer / อื่น ๆ ที่ รว.คลังกำหนด)

2 | กิจกรรมที่ถูกกำกับดูแลภายใต้ พ.ร.ก.

1 | การระดมทุน



บจก./ บมจ.
ออกโทเคน
ขายผ่าน ICO

ICO
portal

ผู้ให้บริการ
ระบบเสนอขายโทเคน
คัดกรองโครงการ
ก่อนมาขออนุญาต
ก.ล.ต.

คริปโท ๑ /
บาท
โทเคนดิจิทัล



ผู้ที่ลงทุนในโทเคน
ได้ผลตอบแทนหรือ
สินค้า/บริการ
ตามที่กำหนด

2 | การประกอบธุรกิจสินทรัพย์ดิจิทัล

คริปโท
๑ /
โทเคน
ดิจิทัล /
บาท



การซื้อขายแลกเปลี่ยน
ผ่านตัวกลางที่ได้รับอนุญาต
(ตลาดรอง : แลกเปลี่ยนคริปโทฯ/ โทเคน)
• ศูนย์ซื้อขาย/ นายหน้า/
ผู้ค้าสินทรัพย์ดิจิทัล

บาท
คริปโท
๑ /
โทเคน
ดิจิทัล



ผู้ที่ต้องการคริปโทฯ/
โทเคนดิจิทัล

คณะกรรมการ ก.ล.ต. สามารถยกเว้นการเสนอขายหรือการเป็นตัวกลางในบางลักษณะจากการกำกับดูแล

3. เกณฑ์การเสนอขายโทเคนดิจิทัลต่อประชาชน

พ.ร.ก.

- ต้องได้รับการอนุญาตจากสำนักงาน
- เป็นนิติบุคคลประเภท บจก. บมจ. และกรรมการ ผู้บริหาร ผู้มีอำนาจควบคุม ไม่มีลักษณะต้องห้าม
- เสนอขายผ่าน **ICO portal** ที่ได้รับความเห็นชอบเท่านั้น
- เสนอขายได้เฉพาะ ผลท. ที่คณะกรรมการ ก.ล.ด. ประกาศกำหนด



ร่างประกาศ

- **Issuer** : ต้องเป็นบริษัทไทย คุณสมบัติเปิดเผยข้อมูล & งบตามเกณฑ์ (เสนอขาย + ongoing) ขายครั้งเดียวหรือ **shelf** รับเงินบาทหรือ **crypto** ใน list ก.ล.ด.
- **ICO portal** (คล้าย FA): บริษัทไทย ทุนจดทะเบียน ≥ 5 ลบ. ระบบงานพร้อม
- คุณสมบัติ **investor** :
 - **II / UHNW / PE / VC / qualified investors** : ไม่จำกัดวงเงิน
 - **Retail investors** : ลงได้ไม่เกิน 3 แสนบาท ต่อคนต่อ deal
ทั้งนี้ มูลค่าสูงสุดของการเสนอขายต่อ **retail investors** ทั้งหมดต่อ deal:
 - ≤ 4 เท่าของ equity
 - $\leq 70\%$ ของมูลค่าทั้งหมดที่เสนอขาย ครั้งนั้น (แล้วแต่ค่าใดสูงกว่า)

4. เกณฑ์การประกอบธุรกิจสินทรัพย์ดิจิทัล (license รมว.คลัง)

Digital asset exchange

- **Role**
 - product screening
 - proper KYC
 - cybersecurity
 - asset safekeeping
 - fair marketplace
- **Eligibility criteria**
 - บริษัทไทย
 - ปฏิบัติตาม regulatory objective / requirements ของสำนักงานได้
 - ส่วนของผู้ถือหุ้นขั้นต่ำ 50 ลบ.
 - ค่าใบอนุญาต 2.5 ลบ. สำหรับ crypto & 2.5 ลบ. สำหรับโทเคนฯ
 - annual fee: 0.002% ของมูลค่าการซื้อขาย (0.5 – 20 ลบ.)

Digital asset broker

- **Role**
 - client suitability
 - proper KYC
 - cybersecurity
 - asset safekeeping
- **Eligibility criteria**
 - บล. หรือบริษัทไทย
 - ปฏิบัติตาม regulatory objective / requirements ของสำนักงานได้
 - ส่วนของผู้ถือหุ้นขั้นต่ำ 25 ลบ.
 - ค่าใบอนุญาต 1.25 ลบ. สำหรับ crypto & 1.25 ลบ. สำหรับโทเคนฯ
 - annual fee: 0.001% ของมูลค่าการซื้อขาย (0.25 – 10 ลบ.)

Digital asset dealer

- **Role**
 - proper KYC
 - cybersecurity
 - (ไม่ให้เป็นตัวแทนดำเนินการ แทนลูกค้า / เก็บรักษาทรัพย์สิน เว้นแต่ได้ใบ broker ด้วย)
- **Eligibility criteria**
 - บล. หรือบริษัทไทย
 - ปฏิบัติตาม regulatory objective / requirements ของสำนักงานได้
 - ส่วนของผู้ถือหุ้นขั้นต่ำ 5 ลบ.
 - ค่าใบอนุญาต 1 ลบ. สำหรับ crypto & 1 ลบ. สำหรับโทเคนฯ
 - annual fee: 1% ของกำไร (0.1 – 5 ลบ.)

4. เกณฑ์การประกอบธุรกิจสินทรัพย์ดิจิทัล (ต่อ)

พ.ร.ก.

- **หลักเกณฑ์การประกอบธุรกิจ** : ให้อำนาจคณะกรรมการ ก.ล.ด. กำหนดหลักเกณฑ์ / วิธีการประกอบธุรกิจ

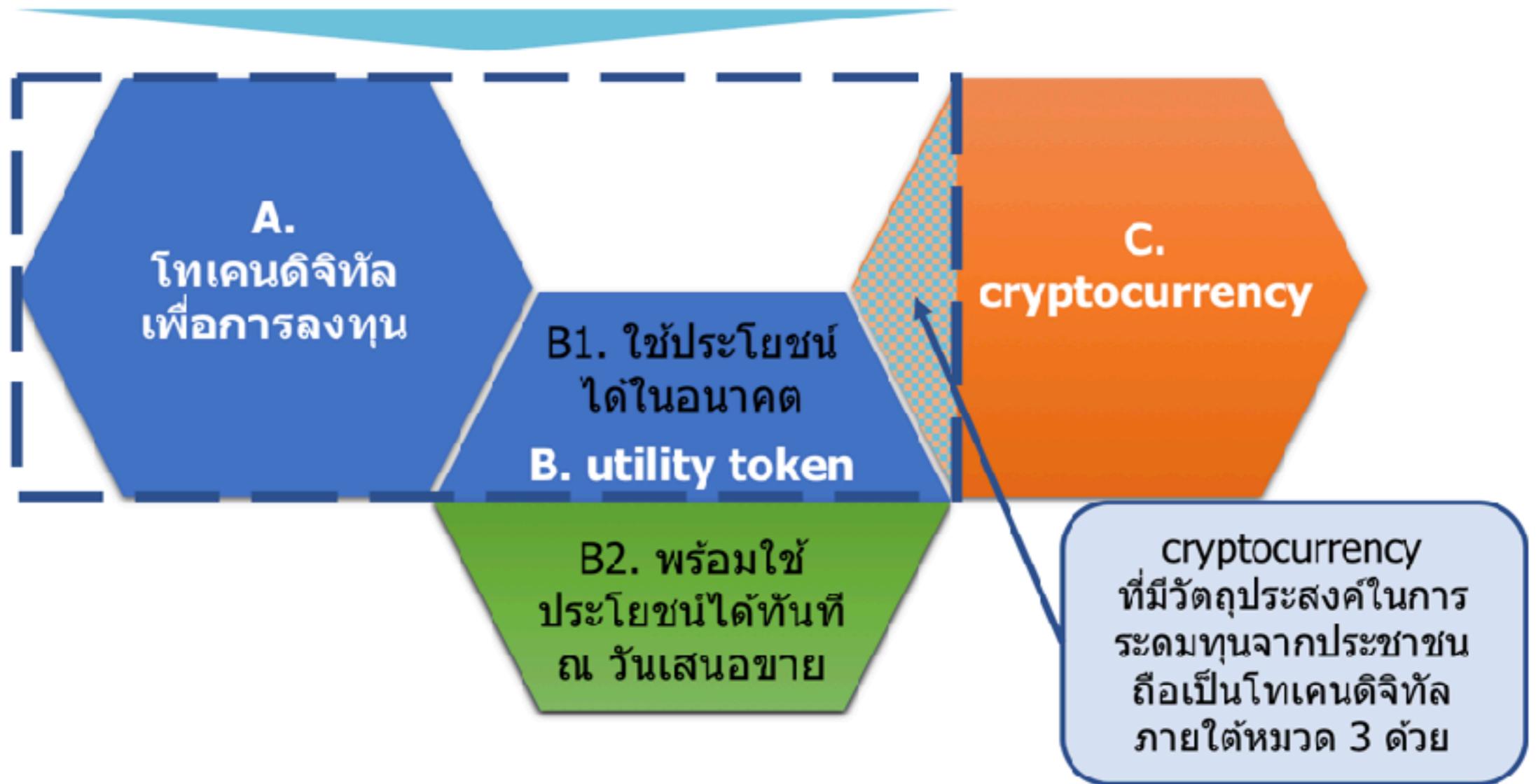


ร่างประกาศ

- มาตรฐานการประกอบธุรกิจสินทรัพย์ดิจิทัลตามประกาศคณะกรรมการ ก.ล.ด.
 - ดำรงส่วนของผู้ถือหุ้นขั้นต่ำ
 - มีโครงสร้างบริหารจัดการที่ชัดเจน
 - มีระบบงานที่มีประสิทธิภาพ
 - มีบุคลากรที่เพียงพอและมีคุณภาพ
 - จัดทำ **KYC / CDD** ตามมาตรฐานกฎหมาย **ปปง.**
 - งบตรวจสอบโดยผู้สอบฯ ตามเกณฑ์
- ซื้อขายแลกเปลี่ยนสินทรัพย์ดิจิทัลกับเงินบาทหรือ **crypto** ใน **list** ก.ล.ด. เท่านั้น

Scope การกำกับดูแลสินทรัพย์ดิจิทัลภายใต้ พ.ร.ก.

โทเคนดิจิทัลภายใต้ หมวด 3: การเสนอขายโทเคนดิจิทัลต่อประชาชน



หมายเหตุ: ยกเว้นกรณีโทเคนดิจิทัลที่ออกและดำเนินการโดยธนาคารแห่งประเทศไทย

Scope การกำกับดูแลสินทรัพย์ดิจิทัลภายใต้ พ.ร.ก.

กรณีที่ไม่ถือเป็นการประกอบธุรกิจสินทรัพย์ดิจิทัล

ผู้ให้บริการแลกเปลี่ยนระหว่าง utility token ที่พร้อมให้ใช้ประโยชน์ได้ทันที

- Utility token ที่นำมาแลกเปลี่ยนต้องพร้อมให้ใช้ประโยชน์ได้ทันที
- แลกเปลี่ยนระหว่าง utility token ในประเภทเดียวกันเท่านั้น
- ไม่มีการแลกเปลี่ยน utility token ดังกล่าวเป็นเงินหรือ cryptocurrency

ผู้ให้บริการซื้อขายสินทรัพย์ดิจิทัลที่มีมูลค่าคงที่เทียบกับเงินบาท (stable coin / reference coin)

- ผู้ออกมีกลไกชัดเจนในการคงมูลค่าตามที่กำหนด
- ซื้อขายกับเงินบาทตามมูลค่าที่กำหนดเท่านั้น โดยการชำระเงินต้องทำผ่านสถาบันการเงินตามกฎหมาย ปปง.

หมายเหตุ: การดำเนินการโดย ธปท. ในสินทรัพย์ดิจิทัลที่ ธปท. เป็นผู้ออก ไม่ถือเป็นการประกอบธุรกิจสินทรัพย์ดิจิทัล

Q&A