

Crypto Investment Top 10 ranking Case Study

A fact finding approach to **Crypto** industry by CDI—Keyman Technology

2018 #1 CDI-PT Newsletter (Digest) Ver.2

July 5, 2018

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ChainSecure, Chief Blockchain Researcher **Chen, Chih-Hao (Jamie)**

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Purpose of this Ranking

- To address rapid evolving blockchain technology, Crypto investment project which deserves to pay attention were selected.
 - Every project is trying to maximize decentralized network systems power and efficiency
 - Understand most recent trend of Crypto investment projects and cutting-edge technologies improve efficiency or security

【Remarks】

1. Outline

- ◆ **As of 2018, top 10** Crypto-currency investment projects **out of more than 3000 ICO Projects.**

A remarkable Crypt currency investment project that is supposed to make a social impact through innovative effects by taking advantages of the decentralize feature of the Blockchain in the future. Both public and private Blockchain, blockchain technology has the "Magnitudes power" of the potential to radically transform society in the same way the internet did 20 years ago.

- ◆ People say "more than 90% ICO are scam". So we tried to evaluate "Real Projects or services" that are deserve for introduction.
- ◆ This case evaluation was conducted by discussion by **Fumitaka Okumura** (CDI) and, **Chih-Hao (Jamie) Chen** (Experienced ICO engineer, Chief Blockchain researcher) , **J.C. Lin** (Keyman Tec. CTO) in ranking style.

2. Approach of Ranking

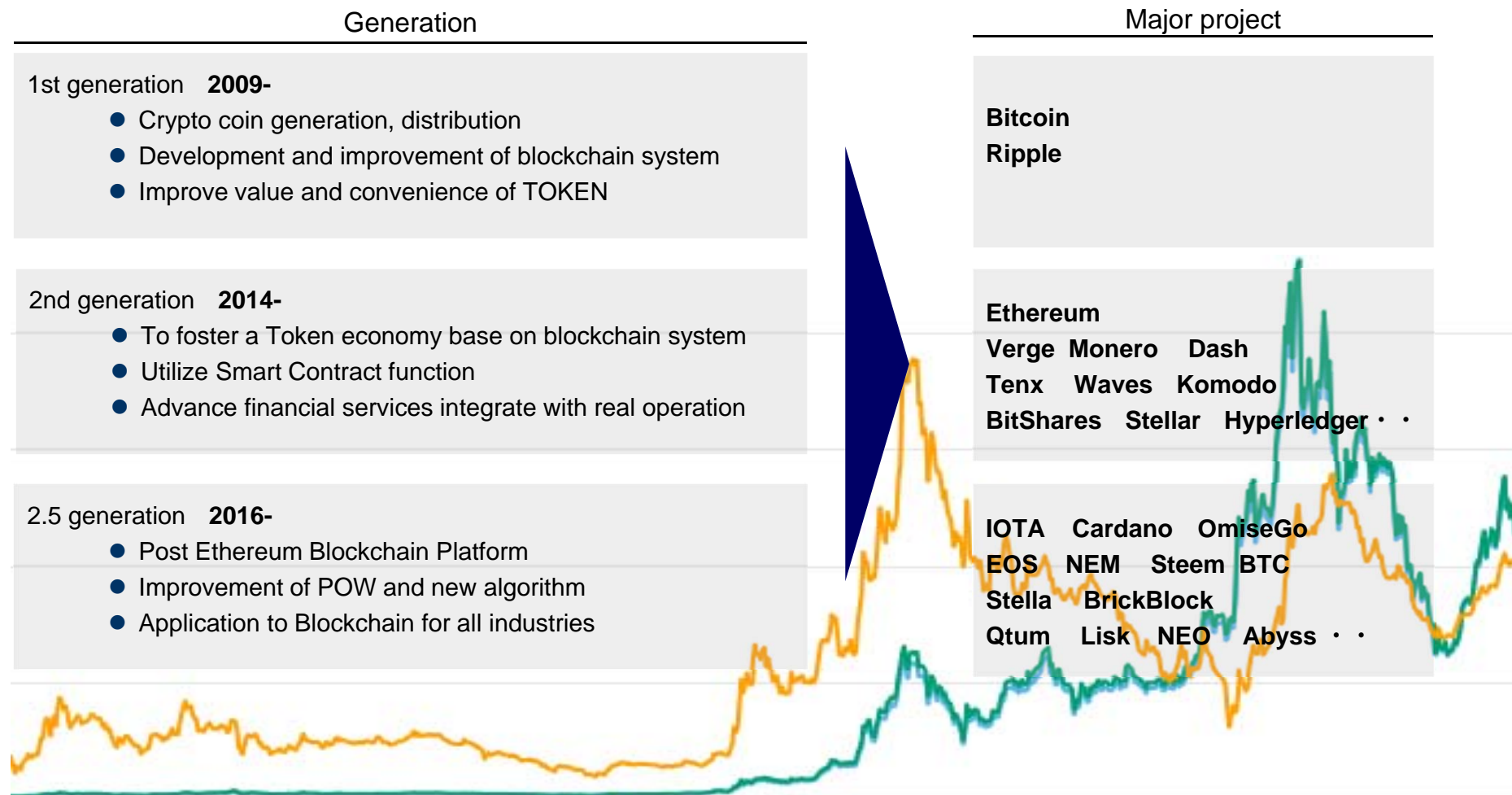
- ◆ The basic evaluation clusters are the following four points **1 accessibility 2 efficiency 3 reliability/security 4 Innovation of technology.**
- ◆ We could not have a consensus of ranking top 10 especially after 3rd. We found this work requires deep insight, wide knowledge and strong belief for decentralization. So, We are going to update every 18 months.

3. This evaluation does not evaluate the attractiveness of token nor does it predict the growth of coins or services. The meaning of case studies are to study future possibility and reliability of decentralized system.



Background of this research project

- The Crypto-coin / Blockchain projects that began with Bitcoin in 2009 has evolved to the 2nd generation with the emergence of Ethereum in 2015, and continue to evolve further, spreading throughout the industry.



CDI Ranking Top 10

■ Our top 10 ICO projects and services (as of July 2018)

Project outline

Rank#	Project name, MarketCap#	Protocol/Application Platform	Consensus Algorithm	Token/Coin Native Token Type	Cryptography Developer Support
■ 1	Ethereum # 2	Protocol Smart contract	PoW -> PoW/PoS (2019)	Coin Execution, Stake(2019)	ECDSA, Keccak256 Solidity
■ 2	EOS # 5	Protocol Smart contract	Delegated PoS Smart	Coin Stake	ECDSA WASM, mostly C++
■ 3	Lisk # 24	Protocol Side Chain	Broadhash(DPoS)	Coin Execution	Schnorr Java script
■ 4	Ripple # 3	Private Protocol	XRP LCP, Permissioned Nodes	Coin Execution	N/A Close, promise to go open
■ 5	Cardano # 8	Protocol Smart contract	Pos (Ouroboros)	Coin Stake	BLAKE2b-256 Solidity
■ 6	Stellar # 7	Protocol Asset Transaction	Stellar Consensus (FBA)	Coin ExecutionCoin	ed25519 Java, JS, C#, Python
■ 7	IOTA # 9	Protocol Transaction	MCMC Consensus	Coin N/A	Curl Java, C++ API
■ 8	NEO # 12	Protocol Smart contract	DBFT	Coin (NEO)Stake(GAS)Execution	Lattice cryptography .Net Framework
■ 9	Bitcoin/BTC # 1,4	Protocol Transaction	PoW	Coin Execution	ECDSA, SHA256 Script
■ 10	Monero # 14	Protocol Smart contract	PoW	Coin Execution	Crypto Night JSON RPC



CDI Ranking Top 1-2

Ethereum as 1st in rank and EOS as 2nd in rank in the consensus of the evaluator. There might be objection to the 2nd place, but we expect a lot as Ethereum's successor candidate.

Rank Project name

Comments to ranking

1 Ethereum (ETH)



Positive

- Ethereum actually changed the Block world. First smart contract enable platform since 2015
- Very active developer community and Partnerships
- Many DApps and over 10% ETH runs on Ethereum. It has really invention of Token Economy
- First generation contract with model. Smart contract is not limited due to very few gas token price, but still a 1% also
- Simple and decentralized

Negative

- Efficiency becomes a huge issue in the future. Scaling Layer 2 and Sharding will be critical
- Very slow in 2018
- Many challenges in the future. Smart contract is not perfect. Sharding solution, PoS and Plasma
- High network cost and slower Transaction. 15 sec

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2 EOS



Positive

- EOS Provide all of the cryptography and application-level communication functions to allow developers to focus on their business specific logic functions
- Decentralized non-based permissioned the Block leader by consensus. No mining mechanism, self-declaring address schemes, and a decentralized
- Zero transaction fee. Other developers should be able to create DApps with 100% of their share of resources
- High efficiency. High through and almost 100% success

Negative

- Block Producer Rewards might cause risk in the future. Mining process is too hard to proceed
- Consensus is the only solution. Implementation of solution is hard 3 months. Main net not stable and no test net

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Consultant and Researcher Profile



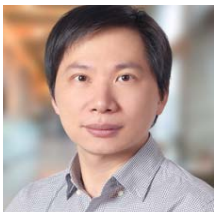
Fumitaka Okumura
(CDI PT-Partner)

- Master of business administration (MBA) Keio University.
- Technologies expertise the apply of blockchain, 8K high-definition technology, 5G technology
- CDI Japan partner. CDI Taiwan Chief Executive Officer. Keyman Technology advisor. ZAGAMA advisor. NGO Wildlife advisor.
- Blockchain technology strategy for Infrastructure company ● Promotion of 5G Management for Smart city Program ● International Competitive Advantage of 8K/SVOD technology



Chih-Hao (Jamie) Chen
(Chief Blockchain Researcher)

- Master of Computer Science and Information Engineering (CS) National Chiao Tung University
- Bachelor of Mechanical Engineering Nation Tsing Hua University
- CEO of CloudEX.app, the first decentralized EaaS(Exchange as as Service) platform ● Blockchain Security and Smart Contract Auditor ● OTT/DRM expert ● A serial entrepreneur ● Technical leader of legal-tech(AI) project



JC Lin
(Keyman Blockchain consultant, Co-founder)

- Institute of Business Administration (MBA) National Cheng Kung University
- Information management (MBA) Fu Jen University
- Keyman Blockchain consultant, Co-founder Time Box Blockchain service CTO, Co-founder
- Zagama Cloud Service CEO Game Heaven CTO
- Advisor and business consultant in Blockchain/Cryptocurrency-related projects ● Project leader of Accounting and tax, sales and distribution, procurement and materials and business processes, etc., ERP, BPM, BPR ● Decision making in Artificial intelligence and big data analysis ● Organization planning and info construction of AR/VR new ventures

CDI-PT Blockchain Consulting Menu

Blockchain Implementation

Blockchain Business Consulting

- Business transforming Engineering with B.C.
- Reliability and accessibility analysis
- Design product / service consulting

Blockchain partner alliance

Blockchain technology alliance with Japanese partner consulting

- Technology and regulation feasibility
- Pitch/ Introducing document design
- Opportunity long list / Visit support

Blockchain research

Blockchain security analysis Consulting

- Incident analysis
- Trend of World wide regulation /Compliance
- Design Security guide line

Blockchain technical trend research

- Each country's government strategy for B.C.
- Trend of innovative new platform

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As of July 2018