



# Cube Chain 2.0

WHITEPAPER



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# Cube Chain 2.0

Advanced Protecting your Benefit

## 1. Overview

This white paper is a Cube Chain 2.0 white paper that has completed the contents, development and changes of the contents that have described in the existing Cube Chain white paper and added new services. Through this white paper, we introduce Cube's progress, ongoing development, and ongoing services and at the same time, Cube Chain's differentiated cubing technology and special blocks.

It is a description of the services provided by the Cube Chain platform of the Cube Chain project and the technology being promoted and the technology that guarantees fast transaction speed while maintaining the security level by using the Cube Chain, that is the pattern block algorithm. In addition, we will describe what changes have been applied to Cube Chain 2.0. Cube Chain is currently in commercialization stage with core (engine) development, main net launching, wallet and scanning sites, and mining and mining systems completed.

We plan to develop additional APIs, protocols and smart contracts for future Cube Chain services, which will open the core source to the development group that has acquired the Cube Working Group (CWG) license and participate in development and testing. Cube Chain's service platform will be opened with APIs and protocols, and it is for service providers and general users who want to use Cube Chain in the field of E-commerce.

## 1.1 The Current State of Blockchain Technology and the Future of Cube Chain

In 1991, 17 years before Bitcoin appeared in the world, the core idea of decentralized blockchain technology proposed by Stuart Haber and W.Scott Stornetta spent 30 years old reaching maturity.

In the meantime, blockchain technology has been revealed and realized in the world centered around Bitcoin and Ethereum, ensuring stability through experimentation and improvement, and fully accepting structural contradictions and accusations. It is changing and evolving fast by constructing its own ecosystem in the rapidly changing IT technology environment.

The value of stable infrastructure technology has been found beyond the recognition of the coin speculation-oriented malformation structure derived from the experiment process. In addition, various ideas are intertwined around large corporations, and the existing order centered on platform construction is changing to the core technology of the business platform centered business model. In the near future, blockchain technology will be positioned as a service model that can reliably coexist and coexist in life rather than its value as a coin itself

Cube Chain intends to organize and looks back on the development stages and footsteps that have passed since the beginning of 2020, and to provide services with new direction and new value in line with the current trends and demands.

## 1.2 Changes of Cube Chain

Existing blockchains like Bitcoin have a linear connection of blocks. Data transaction speed is slow because communication is performed only between adjacent blocks. Cube Chain is structured to extend the functional elements of the database through the concept of cubes instead of blocks. It speed up through parallel data processing by providing a way to three-dimensionally implement and multiplex blocks.

Currently, blockchain technology has evolved into a wrong structure that deviates from the meaning of basic blockchain, which is heavily biased around coins, which are rewards for mining in people's perception.

In this current situation, as mentioned in 2.1 above, Cube Chain finds a new direction and value. To form a brand new culture and to have it reflected in our lives, Cube Chain goes beyond the identity as a platform that has been pursued until now.

In addition to short-term changes in direction and values, we are keenly responding to changes in users and changes in blockchain.

## 1.3 Amendment

### (1) Changes of Total issue

- \* Total existing issue (50 years): 12 billion QUB
- \* Total issue after change (50 years): 6 billion QUB (50% reduction)

### (2) POS: POW rate change

- \* Item: POW / POS-> POW / SPOS / NPOS
- \* Ratio: change every 5 years-> fixed

### (3) Directional

- \* Existing: Provide a useful platform for the E-commerce field by discovering and attracting various services
- \* Change: Extending its own service as a platform to talk, broadcast, Online shopping mall

## 1.4 Completion and Progress

### ► Completion

- (1) Launch of Cube Chain main net WAVE 1.0
- (2) Distribution of USB type mining device Q10 exclusively for Cube Chain
- (3) Distribution of CUBEMINER mining program for Cube Chain
- (4) Listed on the Cube Chain (QUB) exchange
- (5) Completed technical and security audit -Audit company specializing in blockchain technology and security

## ► Progress

### (1) Smart Contract

We will provide you with the ability to construct smart contracts in the form of a Cube Chain that guarantees your own language or developer freedom. Cube Chain smart contract provides smart contract templates for developers to ensure short development time, stability and easy development access. This smart contract will be compatible with Ethereum and will be optimized for free use with minimum gas cost, such as establishing a free policy for certain traffic.

### (2) Mobile Android /iOS Wallet

By commercializing the Android Cube Chain wallet, Cube Chain users can easily and freely access anytime, anywhere with their smartphones for free transactions, transfers, and commercial activities.

### (3) WAVE1.0 optimization

- Reduce cube creation time
  - Changed to faster processing speed by changing the cube creation time of 180 seconds from the first white paper to 30 seconds after launching WAVE1.0.
- Cube Chain Wallet Features
  - The Cube Chain wallet has been used since the launch of WAVE 1.0. Based on more secure functions, there are convenience functions and various transfer functions for users to use conveniently, and special functions of Cube Chain are developed and completed. Each feature will be opened sequentially.
- Security function: Safe, 2nd authentication
- Convenience function: label, address book, domain, message
- Transfer function: Direct debit, payment request, escrow, coupon creation
- Special Function: POS Participation, Token Generation

\* Detailed changes and schedules can be found in later chapters and roadmaps.

## 2. Introduction to Cube Chain Service Platform

### 2.1 Cube Chain and E-Commerce

E-commerce means the purchase and sale of services and goods through the Internet or through the network. It can be understood that it is not just a transaction but a whole process that connects producers and consumers. Therefore, it includes all activities such as advertising, promotion, strategy, customer support, delivery, and payment, and etc.

Cube Chain is a blockchain for E-commerce, and will improve customer service internally through the service platform of Talk, Broadcast, and Shop, and cut the cost through the reduced fee. It will also expand the market externally to the world. Therefore, the Cube Chain team has been working its continuous efforts to make Cube Chain (QUB) safer and more competitive. In addition, the new policy has been established for transaction authentication and security, payment, and protection of the consumers and intellectual property rights.

Information and communication technologies and information systems have brought changes in the individual's conscious structure and the social structure. Indeed, we expect another revolution through the blockchain. There is a new era that the reciprocal transaction will be widely used without a central organization or a third-party broker.

Cube Chain's team aims to bring about innovative changes in all aspects of the E-commerce industry in all directions. We will break existing frameworks for signing up, selling products, advertising, promotion, and expanding our business, and change the current form of being influenced by the impact of intermediaries. We will make the sharing economy happen by rationally distributing profits using Cube Chain (QUB).

## 3. Cube Chain Service

Cube Chain 2.0 has evolved into a service platform that includes functions such as messenger, individual broadcasting, online shop, etc. by extending the existing blockchain platform for the convenience of users and the development of Cube Chain. Cube Chain has integrated technology to provide services to existing blockchain platform technology. In order to differentiate from many existing blockchain projects, we intend to activate Cube Chain around the service by integrating the service on the existing platform technology.

Cube Chain will provide and implement which services are available on the platform directly

in connection with the Cube Chain platform. Cube Chain has the advantages that all services are integrated or connected so it is easy to connect and utilize, in addition safe and fast by combining functions of Cube Chain.

- Weegle

### 1) Weegle Characteristic

Weegle platform aims to provide mobile media professional services through messenger and live broadcasting R & D, and aims to lead the 5th generation AI messenger media integration platform market. It is a next-generation AI messenger platform that can proceed data security and free P2P transactions by incorporating blockchain, which is one of the Core keywords of the 4th industrial revolution, into this service.

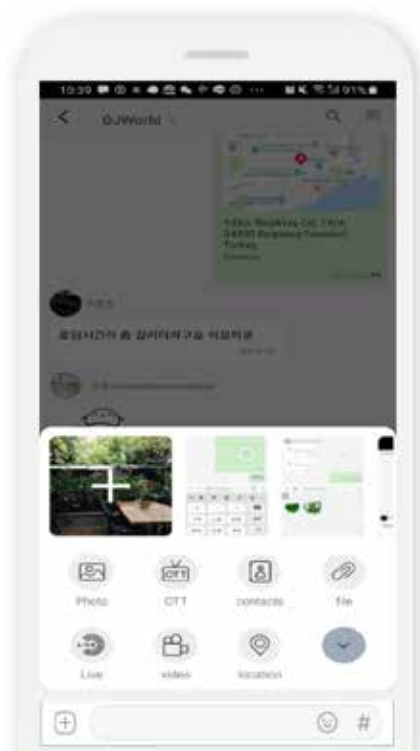
### 2) Weegle Service

Weegle is an all-in-one animation messenger platform service that allows you to watch videos and broadcasts anytime, anywhere. You can chat with your friends and family free of charge, dreaming of a future star with Weegle live broadcast, you will open your own store with My Shop, and will rise into a messenger who can become the owner of a new mobile TV shopping mall.

### 3) Chat

Chat performs the same function as a basic messenger. It is a space for one-on-one or group conversations and secret conversations.

- Regular Chat
- Secret Chat
- Group Chat

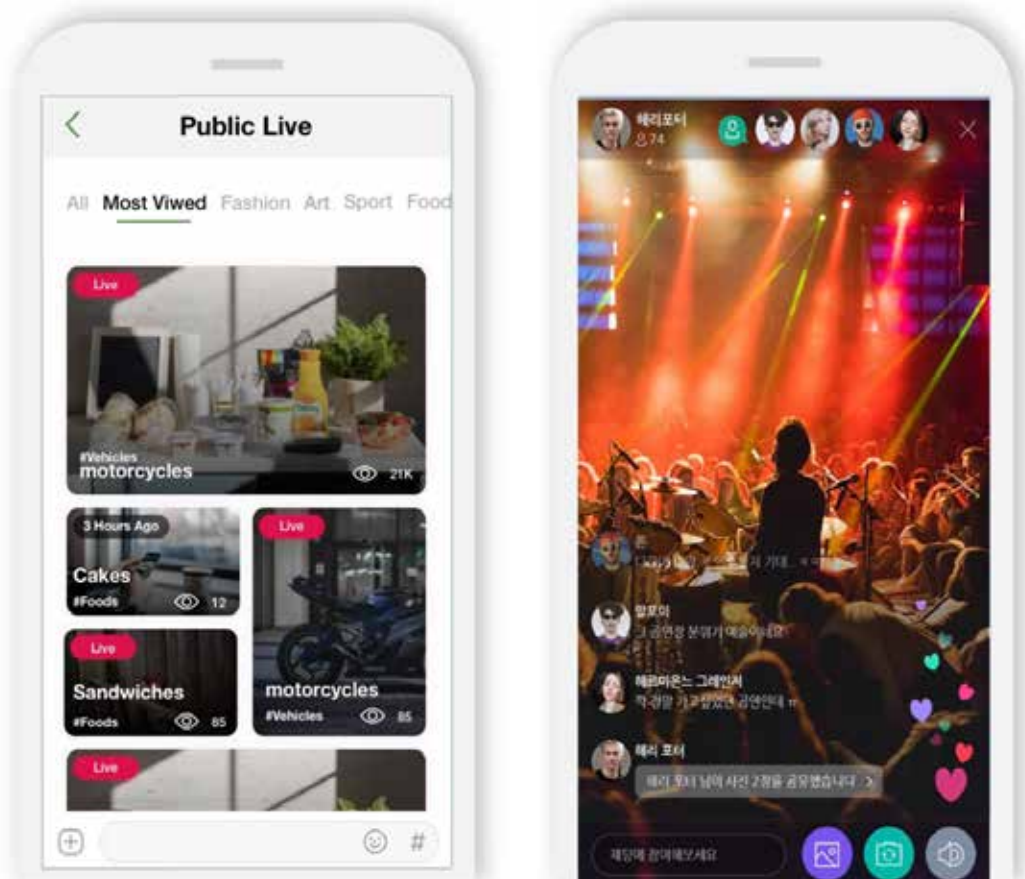




## • Chat & Mobile Live Streaming

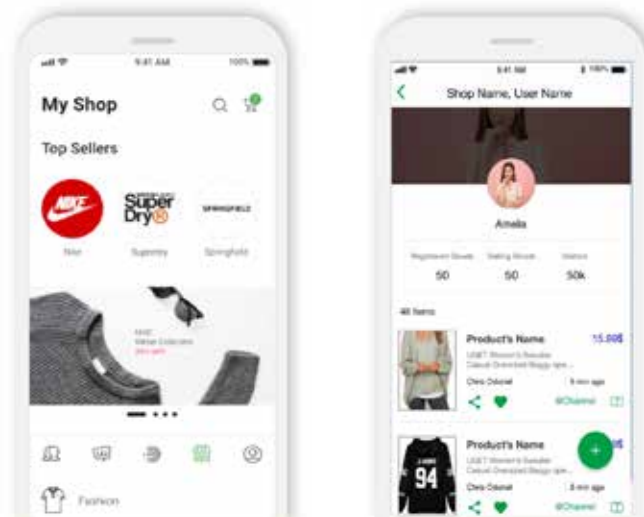
Chat function is provided with mobile broadcasting. Mobile broadcasting is available for public broadcasting, group broadcasting, and secret broadcasting. It has the function that can hold up to 10,000 people participation in the case of group live chat rooms.

- Chat & Mobile Live
- OTT Service
- Group & Public Live
- Secret Live



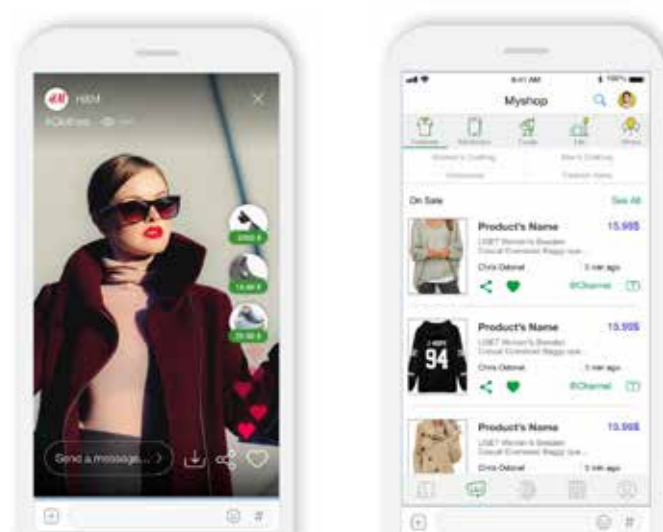
## My Shop

The MyShop feature in Weegle allows individual sellers to open and sell their own online stores. It is possible to pay for purchases between countries and provide purchase information with AI function support. If you look at how companies set up Net Revenue for their marketplace operators, they are mostly in the 10-30% range. Weegle's market service model will set the minimum cost as long as the platform can be maintained to reduce entry barriers to participants.



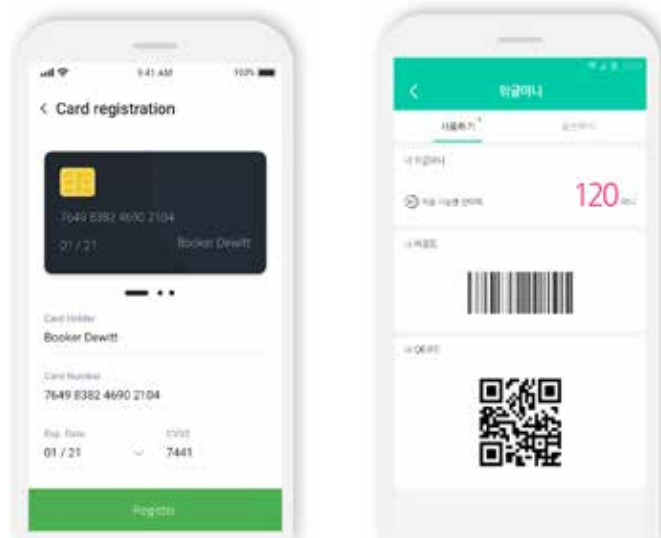
## Touch Commerce

Touch Commerce function is a function that allows you to sell and purchase products through mobile home live broadcasting. You can shorten the selection and purchase time of the product, and any Weegle users can participate in the promotion. Touch Commerce can promptly respond with chat service support that asks and responds in real time.



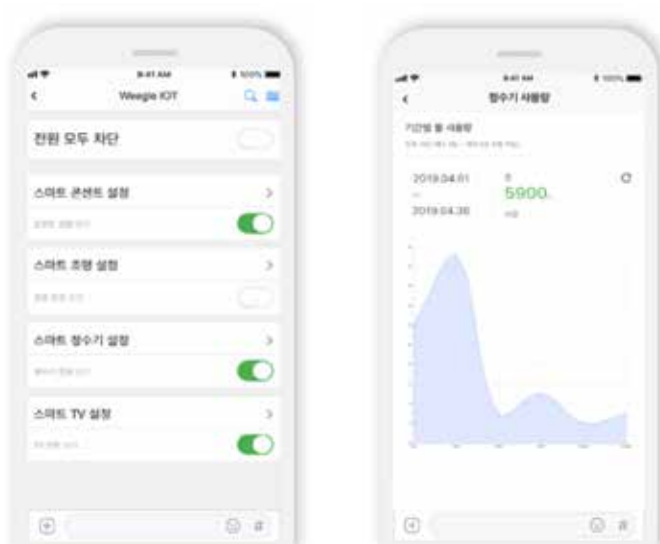
## Payment

Weegle has a payment function. The payment system for operating and selling MyShop is one of the indispensable functions in the Weegle ecosystem. The payment system also adds transparency and security with a cryptocurrency wallet. It provides QR payment and remittance, cryptocurrency exchange connection and reward charging function.



## HomeloT

Weegle Platform will provide home IoT services. Weegle's home IoT service can be compatible with all products that used the existing IoT service, and can check IoT changes during chat or live broadcasting. In the future, we will introduce remote control IoT such as voice recognition AI and car to provide more convenient information and functions.



## Cryptocurrency Wallet

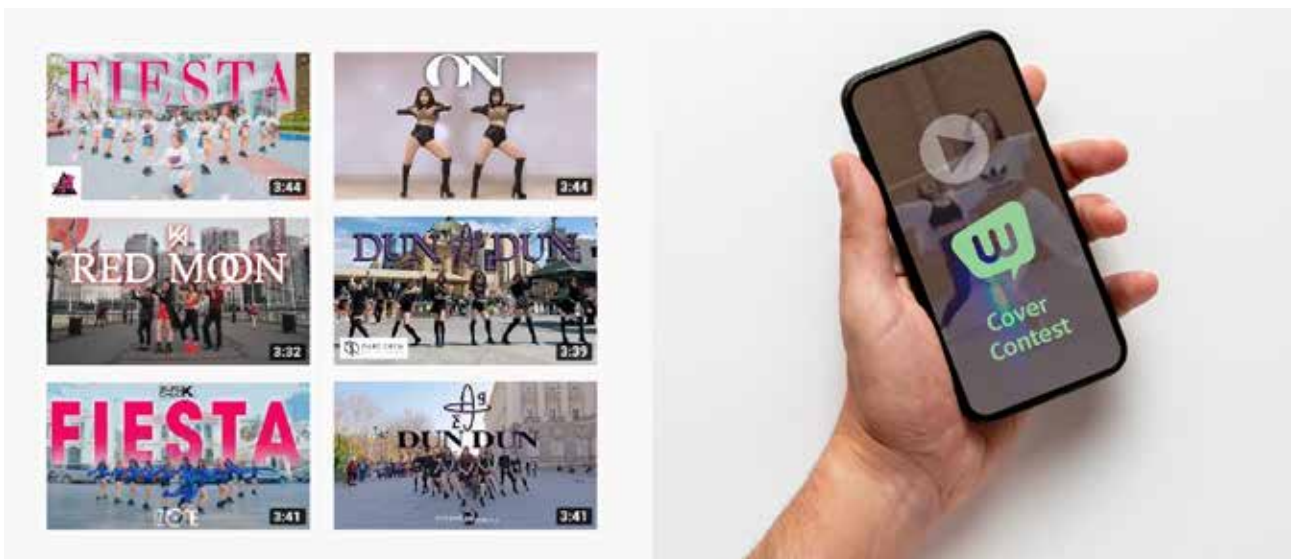
Weegle offers cryptocurrency wallets. Weegle's cryptocurrency wallet is essential for receiving, paying and trading rewards. Cube Chain SPos(Service POS) will be rewarded by linking ETH wallet and Cube Chain main net. You can receive SPos distribution simply by sending and receiving messages with your friends in Weegle Messenger. Sending and receiving messages within Weegle is considered mining activity on the blockchain.



## Entertainment

We will provide fun to users of the WEEGLE platform by providing Cover Contest function using AI. The cover video can be made in various ways. You can earn Weegle coins through cover play and voting of participants, most similar to the original video. By rewarding content for production, you can motivate participants to bring quality content into the Weegle Platform.

The cover contest will be a very popular entertainment as the content of the challenge videos and product testimonials is the main consumption video.



## Features

Weegle Platform forms a community with a combine of text, individual broadcast and social media. It Integrates various mobile service ecosystems.



## Business hub

It will play a leading role in various markets by country with advertisements, E-commerce, 24/7 Live and AR Emoticon Shop. The capabilities and know-how that developed various contents will be expanded to AI platform.

## Weegle Features



### CHAT

- Regular chat, secret chat, group chat, video sharing and viewing together, live broadcast with friends



### LIVE

- Public live broadcast
- Share live moments with only chosen people



### Touch Commerce

- Products can be sold during live broadcast
- Able to trade between individuals
- Products can be purchased through real-time product check



### My Shop

- Possess your own online store
- Anyone can easily become a show host for home shopping



### Weegle Pay

- Secure and easy payment platform
- Fast, easy and secure payment with card, Weegle Wallet & QR code

Weegle is a new concept messenger platform that allows you to share and watch online contents in a messenger window and communicate at the same time. Live streaming is public / Group / Secret type is supported. In addition, by utilizing Touch Commerce, the Weegle messenger platform will become a blockchain messenger platform that enables content sharing, peer-to-peer transactions, payment, and delivery.





- **OTcube**

## **1) Service Introduction and Vision**

OTcube is a service registered on the Cube Chain service platform and will be expanded to enable the connection between OTQ and QUB, the key currency of OTcube service.

OTQ Natural Asset Coin (OTQ) is a producer who owns natural resources that allows consumers to participate in the cost of production activities, thereby rewarding profits as prosumers when converting natural resources into commodities. It is a reliably new concept coin.

In particular, building a convergence system of blockchain technology and fintech technology and forming a consumer platform through natural asset OTQ coin will create a stable economic profit structure based on new concept distribution.

## **2) Service Architecture**

### **Token Eco-System**

Water, OTcube's natural asset, has been digitally extended through the blockchain. This is a revolutionary solution to the problem of highly volatile and unstable cryptocurrency trading and application ecosystems. In order to solve the problems of network latency, scalability, volatility, the existing method has to solve some design problems related to the entire blockchain in addition to the entire transaction method.

OTQ has formed an ecosystem to solve the problem by introducing the concept of giving stability to exchange certain tokens with water, while laying down the business model of its use. In other words, based on OTQ, it operates as a payment system that can trade while preserving capital. We call this OTNAE (OTcube Natural Asset Eco-System).

OTQ takes the key currency role here.

With those reasonable factors above, OTNAE will grow and will be freed from the effects of uncertainty in the market. We strive to provide a guaranteed demand for OTQ to be used for a variety of services. Therefore, the investor's assets can be expected to exceed the initial value. Many components in the system will increase the value of OTQ through interaction.

\* Details on Weegle, OTcube and three other services (SignOne, Cube Chain Product, Qblog) are detailed in the Cube Chain 1.0 white paper.

## 3.2 Wallet Service

Cube Chain aims to be a versatile and convenient blockchain service platform. To this end, we will provide basic services to maximize Cube Chain utilization and provide an environment that can be concentrated on application program or service development.

- Offer of Wallet
- Wallet Address Domain Service
- Wallet Grouping Service
- Direct Debit Service
- Wallet Message Forwarding Service

\* Service details are detailed in the Cube Chain 1.0 white paper.

## 3.3 Cube Chain Utilization Based Service

Cube Chain utilization-based service is a service that is deployed after building the base service platform to use blockchain-based Cube Chain technology as a business model in various fields. This aim is to create a development environment for companies or individuals to create a wider Cube Chain ecosystem using Cube Chains, and to provide a cornerstone for further development of secondary Cube Chain applications. The base service using Cube Chain will evolve into a completed form that can directly apply business model, which is a template app form, will be distributed separately.

- Cube Chain Personal Information Authentication Service
- Cube Chain Message Delivery Service
- Cube Chain File Storage Service
- Cube Chain Database Service

\* Service details are detailed in the Cube Chain 1.0 white paper.

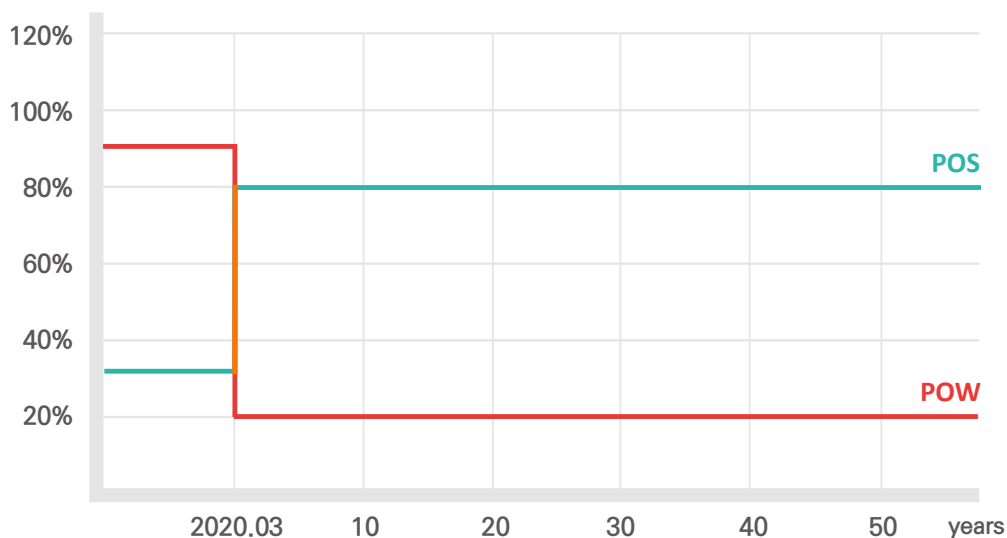


## 4. Consensus and Issue amount

### 4.1 POH (Proof of POW + POS hybrid)

The basic mining method of Cube Chain POW is to reward the nodes participating in the proof of work. However, in order to solve the difficulty of rising problem caused by excessive network resource waste and excessive heat competition, POH (Proof of POW + POS hybrid) method is adopted, which combines the compensation method of POS.

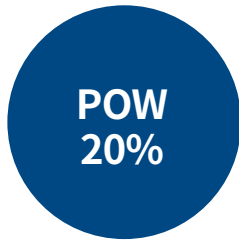
Cube Chain's unique POH method increases the POS ratio gradually while simultaneously performing POW and POS. This aims to prevent industrialization of mining due to POWs and to avoid wasting network resources.



### 4.2 QUB issue amount and POW: POS detail ratio

A total of 6 billion Cube Chains will be issued over 50 years. This has been set in consideration of the circulation and transaction volumes in the upcoming services of Cube Chain. The quantity to be issued is distributed based on the ratio below.

Cube Chain will issue a total of 6 billion coins over 50 years, and the ratio of POW: POS will be 7: 3 until February 29, 2020, and the ratio of POW: POS: SPOS will be 2: 4: 4 from March 2020. This ratio fixed up to 50 years. POS is more efficient than POW in constructing, maintaining, and utilizing the nodes of the Cube Chain, enabling more stable and fair Cube Chain mining compensation.



## 1) SPOS

SPOS is an abbreviation of Service POS and means POS that is allocated to service providers participating in the Cube Chain platform. Service providers make up nodes and use this POS reward to improve the quality of the service and pay users for the use of the service.

Period	5 years QUB Compensation	POW:POS	5 years POW Compensation	5 years POS (General)	5 years POS (SPOS)
8month	128,351,808	7 : 3	89,846,266	38,505,542	-
5year	301,209,600	2 : 8	60,241,920	120,483,840	120,483,840
10year	350,400,000	2 : 8	70,080,000	140,160,000	140,160,000
15year	350,400,000	2 : 8	70,080,000	140,160,000	140,160,000
20year	350,400,000	2 : 8	70,080,000	140,160,000	140,160,000
25year	350,400,000	2 : 8	70,080,000	140,160,000	140,160,000
30year	350,400,000	2 : 8	70,080,000	140,160,000	140,160,000
35year	350,400,000	2 : 8	70,080,000	140,160,000	140,160,000
40year	350,400,000	2 : 8	70,080,000	140,160,000	140,160,000
45year	350,400,000	2 : 8	70,080,000	140,160,000	140,160,000
50year	350,400,000	2 : 8	70,080,000	140,160,000	140,160,000
<b>Total</b>	<b>3,454,809,600</b>		<b>690,961,920</b>	<b>1,381,923,840</b>	<b>1,381,923,840</b>

- The number of reward QUBs paid for generating one block through POW / POS /SPOS mining is divided into 70 QUBs in total, and 14/28/28 QUBs are paid.

#### 4.3 POW compensation method

Nodes participating in the Proof of Work will be paid out after the cube is created. If you participate in duplicate of a task, it will be calculated as a duplicate and paid in aggregate.

#### 4.4 POS compensation method

POH is a unique way to participate in Cube Chain, which combines the mining method of POW and the reward method of POS. In the Cube Chain, you can participate in the Cube Chain wallet regardless of the node participation. Based on the previous block, more than 5,000 QUB balance holders will be paid in proportion to the amount held. However, the number of POS participants cannot be transferred during the participation period. If you want to transfer, you can transfer it by excluding the participation quantity. The payment time is paid at the beginning of the current block creation, and the payment quantity is paid by calculating the ratio of the retained quantity to the total quantity. The Statistics Block of Cube Chain stores the quantity of POS targets in each block, so you can quickly calculate the reward amount and send it to each wallet address.

## 5. Conclusion

Talk, Broadcast, and Online Shopping Mall, the representative services of Cube Chain 2.0, have a new technology paradigm that can bring about innovation and productivity in various industries, starting with the E-commerce industry.

Cube Chain technology alone does not implement everything for sure. It will be integrated with various protocols such as big data and machine learning and process innovation will be carried out.

Cube Chain will enable an environment that supports, analyzes and learns transparent and secure data sharing environment, which will explode various customized services. Cube Chain's vision is to provide a cryptocurrency ecosystem through blockchain technology that will be used by more people, penetrating our lives and acting as a culture like Facebook, KakaoTalk and various other platforms. Since it is highly scalable to various industries, it can be used with other industries, institutions and related E-commerce companies.

By establishing a partnership, we will strive for an effective and systematic collaboration model.

Blockchain technology is constantly evolving to become the foundation technology that will lead the fourth industrial revolution. It will soon be popularized not only in the cryptocurrency market but also as a technology that secures freely sharing and safety of data across all industries. Cube Chain aims to contribute to the development of blockchain technology by complementing the shortcomings of existing blockchain. We hope that Cube Chain will play a leading role in the Fourth Industrial Revolution and be widely used in various fields.

## 5. Road Map

### ► 2018 - Second Half

- Launched "Weegle" Globally by OJWORLD, a messenger based on Cube Chain
- Developed SignOne presents five business models of Cube Chain, led by Qblog
- Developed and Stabilized the wallet site 'Cube Wallet'
- Cube Chain Private Test Net establishment and integration (SignOne, Qblog)
- Cube Chain Platform Improvements
- Added structure change and token generation function for Smart Contract
- Upgrade Block Generation Time
- USB type ASIC Mining Device Q10 Sample Production
- Developed Cube Chain Mining Pool
- Cube Chain Mining Program-Node Configuration

### ► 2019 - First Half

- Development of SignOne, Qblog MVP
- Listed on the Global Exchange
- Launched main net WAVE1.0
- Complete Q10 development (USB type ASIC miner)
- Development of Cube Chain Product
- Launched wallet site "Cube Wallet"
- Launched transaction history website "Cube Scan"
- Launched Cube Chain Mining Pool
- Distribution of Cube Chain Mining Program
- Swap ERC20 QUB Token to QUB Coin
- Started QUB Public Mining (PoW + PoS)

### ► 2019 - Second Half

- Launch of Weegle messenger in multilingual version
- Coming soon of Cube Wallet for Android
- Distribute Q10 (USB type ASIC miner)

## ▶ 2020 - First Half

- Promote listing multiple Won and Global Market
- Design and policy formulation of WAVE 2.0 project architecture
- Development and launch of WAVE 2.0 Whitepaper
- Launch TESTNET WAVE 2.0 version
- Started development of WAVE 2.0 Project and Cube Engine soft fork
- Started project for NODE extension
- Launch and commercialization CUBE CHAIN WALLET Android application
- Development of CUBECHAIN based Service Platform and OTCUBE, OJWORLD collaboration
- Launch Cube Chain Mining Device Q10 officially
- Development of Application for CUBE CHAIN WALLET IOS

## ▶ 2020 - Second Half

- Development of Cube Chain X E-commerce Platform Service
- Business Model expansion through partners
- Development of CUBECHAIN based extension service
- Establishment of CUBECHAIN based TOKEN Business Model
- Development of platform service for Ecosystem Expansion

## 7. Team & Advisory & PartnersTeam

### Team

Dongoh Kim - CEO

Major in Computer Engineering and System Information Engineering  
20+ years of ICT solution and information system construction

Sangyep Nam - CIO

Ph D. in Computer System Engineering Embedded System  
Blockchain Security, IT Business Platform Study  
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Rohwook Myung - CPO

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Client Asset Management Manager/Apgujeong Branch Manager

Yongwoon Kim - CTO

25+ years experience in Blockchain  
Leader of Cubechain Core development  
BlockChain and Online Trading system development

### Advisory Team

Paul Yoo

GLOBAL GENERAL MANAGER

Master degree on Pulic administration

CEO of EnM academic institute, Speciallist of Blockchain

Masafumi Sonoda

REGIONAL MANAGER / JAPAN

Blockchain PROJECT Consulting

Board chairman of PROJECT PAI, Brahama OS, Japan Kominka Association

REDM JAPAN CEO blockchain consulting

## Partners



CUBE Medical  
CubeMedical



OJWorld



ENBER



YellowBucket



HYEAN - Lawfirm

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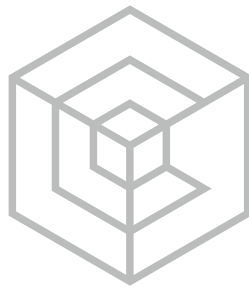
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## Appendix

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