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# 1. Profile

## K· Black Hole, building the sustainable business model based on blockchain

The K· Black Hole project is being jointly promoted with several companies under the lead of D&T Investment, the Korean blockchain service company. The key purpose of the project is to research, develop and to support blockchain-based sustainable business model services and solutions that are operating in partnership with various companies.

D&T Investment plans on to research, develop and to provide the services and solutions in below that are using blockchain-system collaborate with various companies from the base in Korea.

## Develop and Provide the Solution of the Cryptocurrency Exchange Service.

General Exchange	We plan to develop the Crypto Asset Economy Solutions based on blockchain technology that meets global standards and distribute initiatively to the global market.
Futures Exchange	We plan to provide the futures exchange service solution that gives maximum leverage to the global market and supports cryptocurrency margin trading, based in Korea. Trading history of professional traders and real-time multilingual chatting consultation are also provided.
Stock Exchange	Cooperate with global exchange as well as Korean exchange to develop and provide service solutions that applicable to security token exchanges is planned.

## Develop and Provide the Solution of the Data Center

Cloud Mining	In accordance with legislations and regulatory in different countries around the world, starting with Korea, we plan to found a cryptocurrency mining pools data center (DC), develop and support cloud mining services.
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## Develop and Provide the Blockchain Fintech Technology

Blockchain Project	Based on blockchain technology, we plan to develop and support the private blockchain for financial ecosystem development, cryptocurrency wallet development, service for FATF and AML policy compliance, and decentralized identity (DID) service for non-face-to-face digital financial activities.
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## Develop and Provide of Blockchain Mobile Telecommunication Technology

**Blockchain Mobile Network Project**                      In order that blockchain technology can be applied to mobile network, the core infrastructure of future ICT that will lead the digital economy, we develop and support related technologies

## Develop and Provide of Identifying Genetic Information Service

**My Genome Project**                              Develop a service that enables the identification of one's own personal information easily through application based on human genome data and provide through global platforms.

## Develop and Provide of Education Management Service

**Education Platform**                              Developing and apply blockchain technology to support systematic learning education to achieve sustainable improvement of the education standards of foreign languages and learning.  
Also, recording the process, completion of the education information in the blockchain to manage individual education data efficiently.

## Develop and Provide of Vehicle Management Service

**Vehicle Management Platform**                              Apply blockchain technology to vehicle management platforms for vehicle purchase, procurement of components, repairs, etc. to support transparency and in transaction and distribution as well as market fraud prevention.

## Develop and Provide of Food Supply Chain Management Service

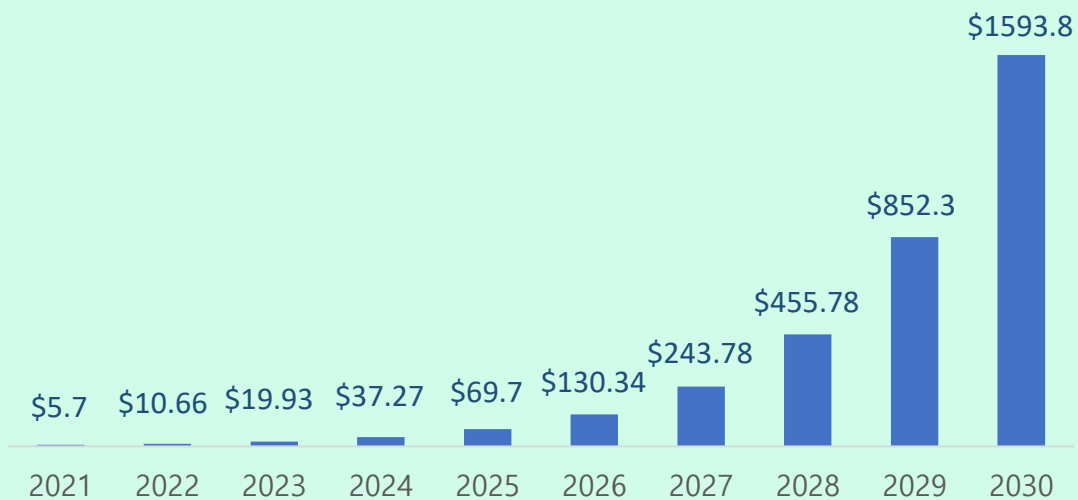
**Halal Food Supply Chain**                              As many muslims are living in Korea already and demand for halal food is greater now than ever, we plan to provide 'halal certification' verification service on both web and mobile by applying blockchain technology to the main process of the halal food supply chain.  
Furthermore , we plan to develop more to make same applies to variety of food supply such as organic food supply and so forth as well as halal food supply in food supply chain.

## 2. Industry Trends

### Future of Blockchain

According to a recent report by 'Precedence Research', the size of the global blockchain technology market was \$5.7 billion in 2021, and is expected to attain approximately \$1.6 trillion by 2030. This represents the phenomenal average annual growth rate of 87.1% from 2022 to 2030.

Blockchain Technology Market Size, 2021 to 2030 (USD Billion)



Source : [www.precedenceresearch.com](http://www.precedenceresearch.com)

Conversely, 'The Forecast of The Korean Blockchain Market' published by KISA (Korea Internet & Security Agency) found that the growth scale was only 1.4 billion dollars in 2023 (8% of the global market), failed to reach the global blockchain growing trend and assessed that blockchain technology in Korea is 2.4 years behind the United States.

However, the probability of growth of the expanding blockchain market in Korea turned out to be very large.

## The Major Motive for The Growth of Blockchain Market

### **Increase of Venture Capital**

The primary driving force, contributes to sustained growth rate of blockchain market includes the increase of venture capital and investment in blockchain technology.

Extensive use of blockchain solutions in the field of banking and cybersecurity; active adoption of blockchain solutions for smart contracts, payments and digital identities; Government initiatives have increased.

### **Increase of The Number of Market Participants**

Blockchain technology has been booming since the birth of Bitcoin and has been used in transactions of various financial institutions.

The application of blockchain technology solutions has come into wide use over the past 2-3 years in various business applications such as documents, exchanging, payments, smart contracts and receipts.

### **Increase in Governmental Investment of Blockchain Technology**

Blockchain networks are pursued by government authorities in many countries.

This is primarily due to the offered benefits of this technology in various businesses, such as increasing transparency and efficiency.

Additionally, Government initiative and partnership with commercial body to integrate blockchain networks to secure the conventional systems are leading demand for the blockchain.

### **Primary Market Opportunity**

Drastic demand for blockchain-based technology among companies working in developing countries has helped leading the blockchain technology market.

The rapid adoption of innovative technology across the whole industry has taken the market up onto a whole new level.

After the development of the most prominent peer-to-peer decentralized cryptocurrency, the growth of the blockchain technology market has been accelerated.

Today, many investors in large and diverse field understand the benefits of this technology.

Diverse industry, ranging from finance to medicine, are choosing adoption to integrate blockchain technology into their infrastructure.

### 3. Mission



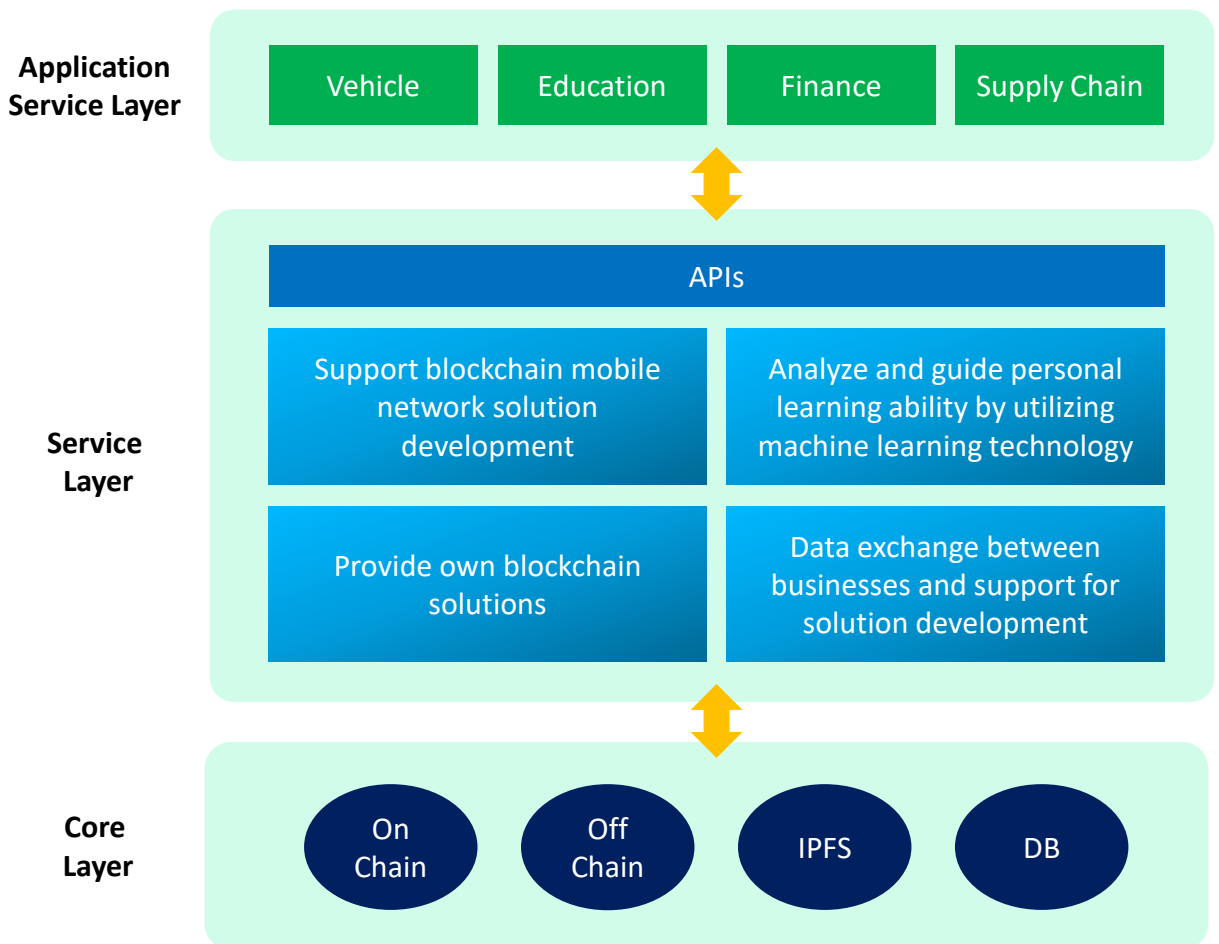
Project 'K-Black Hole' planned by D&T Investment aims to build a virtuous cycle ecosystem by utilizing blockchain technology with the vital components of the 4th industrial revolution such as data, network, ICT(information and communication technology) and AI (artificial intelligence) Also, creating new value in conjunction with forementioned industries through own cryptocurrency, KBH Token.

**Contribution to expanding bilateral economic exchanges between Korea market and the global market based on D&T Investment's blockchain technology.**

- Promoting overseas expansion of blockchain companies in Korea.
- Performing pivotal role in merging the blockchain industrial-educational expertise.
- Supporting for the build of the global digital economy platform by applying blockchain technology-the key technology of the fourth industrial revolution.
- Offering comprehensive technical advice for the fourth industrial development policies.
- Promoting global win-win through enhancing the exchange of material and human resources.
- Finding global cooperation projects with other neighboring businesses through blockchain business.

## 4. K-Black Hole Platform Architecture

K-Black Hole is broadly comprised of three layers: application service layer, service layer, and core layer. We will systematically interwork with various services and make it to operate based on blockchain technology with data transparency, security, and stability features.



**K-Black Hole Architecture**



## Application Service Layer

The application service layer is the layer of services drive provided by the K-Black Hole platform. Broadly, we plan to develop and operate DApps (Decentralized Applications) for companies in various fields, such as finance, vehicles, supply chain, education etc.

Users can access easily and conveniently to the blockchain through this application service layer, and available to various services such as crypto Asset trading service for cryptocurrency trading, KBH Wallet for digital asset exchange, cloud mining service, online financial service, virtual account, easy cash advance, service for untact digital financial activities, etc.

## Service Layer

The most key layer that composes the K-Black Hole platform and connects the application service layer and the core layer.

Since API (Application Programming Interface) which is approachable to the K-Black Hole platform is supported, many new firms and services can easily participate in the ecosystem in DApps form in the future.

Collected data from multiple services in the application service layer can be analyzed and learned by using machine learning technology, and new values can be proposed and predicted based on what has learned.

Additionally, have plans to develop and commercialize the platform continuously through data exchange and business support between own blockchain services and other companies.

## Core Layer

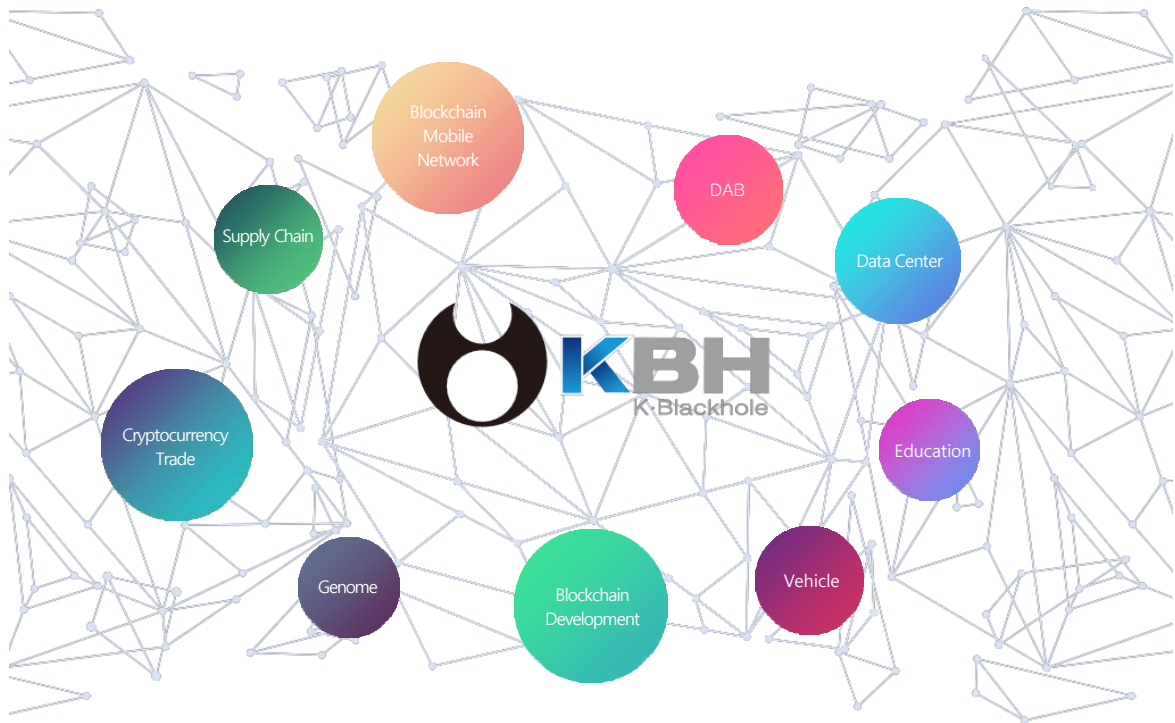
The core layer plays key role of transparently storing and managing data, generated by the K-Black Hole platform and services.

General data are stored in the existing database(DB) by according importance to the data generated by users.

Publicly available important information such as authentication information and payment information are stored in anti-forgery/tamper-proof on-chain blockchain network and the information that cannot be divulged, such as personal information are stored separately in off-chain blockchain network.

Early K-Black Hole utilizes the Ethereum blockchain network and distributed file system (IPFS), Incidentally, have plans to operate own blockchain network through the development of own main-net or side chain in the future.

## 5. K-Black Hole Token Model



To enable the utilization in all the various services above, the K-Black Hole project will issue its own cryptocurrency, K-Black Hole Coin (KBH), and continuously expand the scope of utilization through agreements with companies.

Additionally, even if existing companies already have established business models using cryptocurrency, we have plan to support the Atomic Swap to enable to cross-use.

Atomic Swap, so called 'Coin Swap', acts as a sort of bridge that enables cryptocurrencies existent in other networks to be traded directly without cryptocurrency exchanges.

Through this, it is possible to bring in an influx of users naturally and to secure liquidity of token, by sharing existing services operating in different blockchain platforms.

Token supply conditions for each users are applied vary from one another by each platforms and each operators of services so that there may be occasions when there is available for use and access only. The reason for this is that the K-Black Hole project is providing not only single service but also the various services from many companies.

## 6. K-Black Hole Token Tech

### Ethereum Blockchain Platform

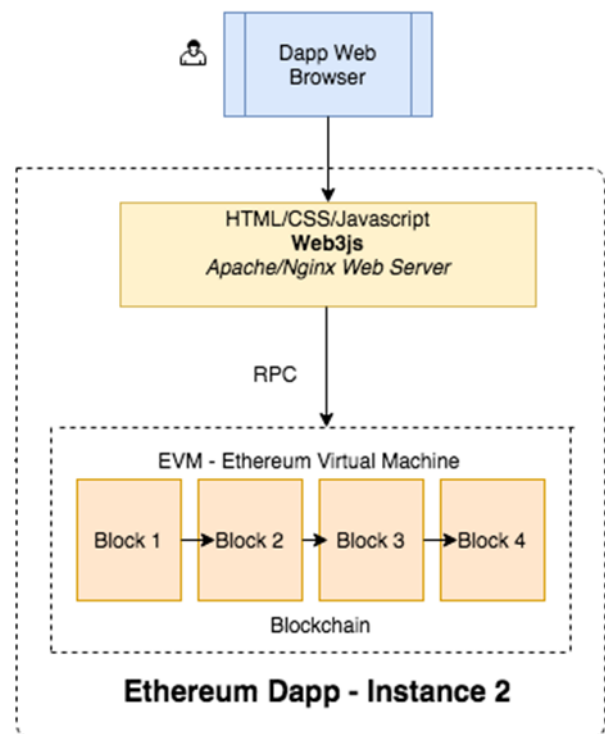
The KBH blockchain network is implemented as a decentralized application through Ethereum and the platform, and all transactions are in the public so that anyone can look and check, therefore, KBH transaction data can never be able to forge or falsify.

To make sure that all the nodes in the network have identical copy of data and to ensure that no erroneous data is recorded on this database, Ethereum uses an algorithm called Proof-of-Work to secure the network. The aspect of blockchain's database is just for storing transactions, but to implement event generation in the service by using smart contracts is possible.

In the Ethereum world, logics and application codes(called contracts) are distributed in language called Solidity. After compiling them to Ethereum Byte Code by using Solidity compiler, that byte code can be distributed on blockchain.

The Ethereum blockchain does not only store transactions, but also store and execute the contract codes. Event data(transactions) generated in DApp are uploaded through the blockchain, and event function codes are implemented and put into effect through the EVM.

DApps were developed in various development languages(Java Script, JS framework, React(:Android, IOS, AWS)). Supporting third-party is available through the scalability of development and simple API.

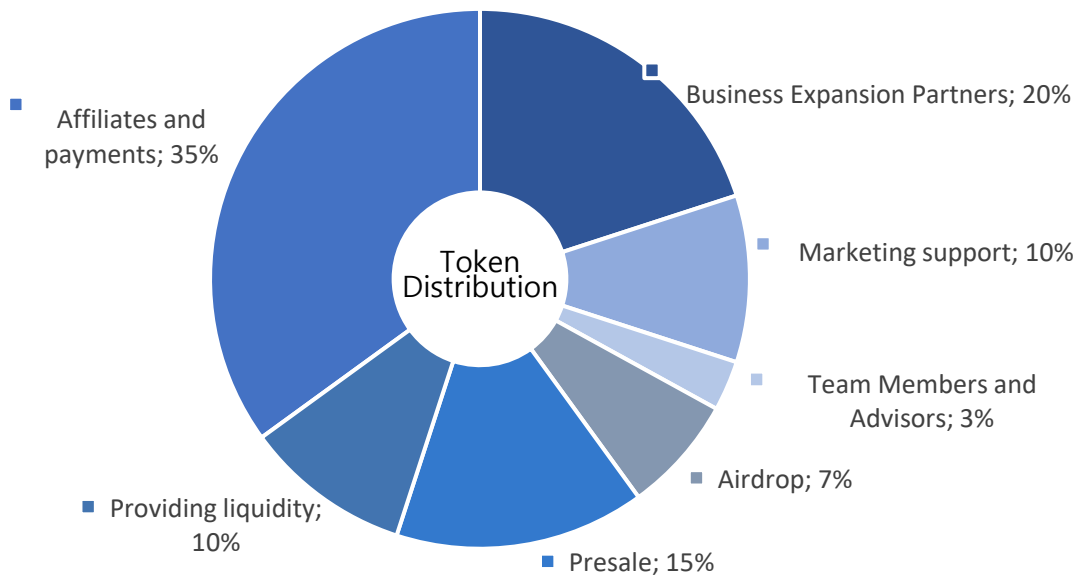


## 7. K-Black Hole Token Matrix

The basic information of the token is as follows.

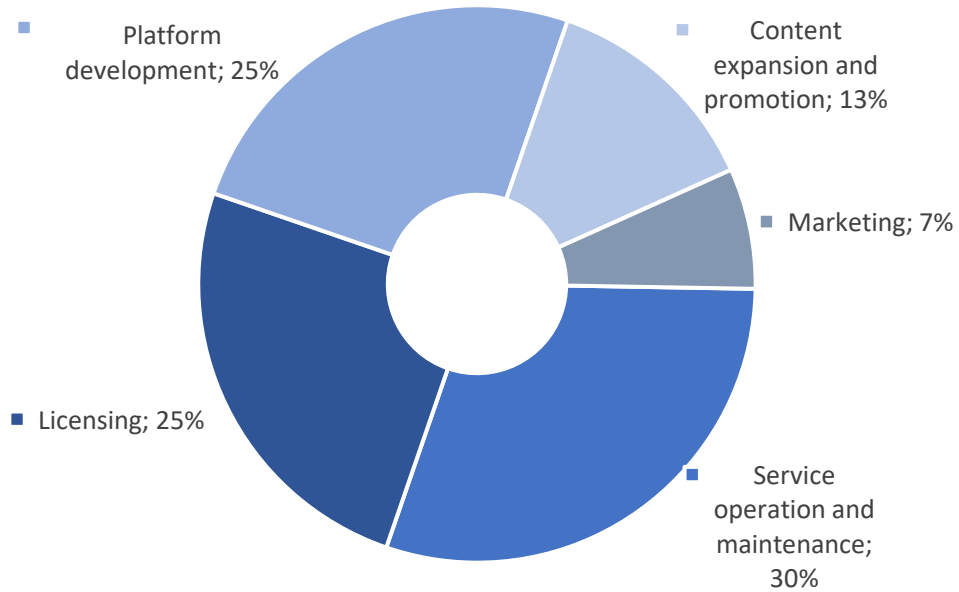
Token Name	K-Black Hole Token
Token Symbol	KBH
Technology Base	Ethereum (ETH) ERC-20
Total Issuance	4,000,000,000 (4 billion KBH)

The token issuance plan and lock-up information are as below.



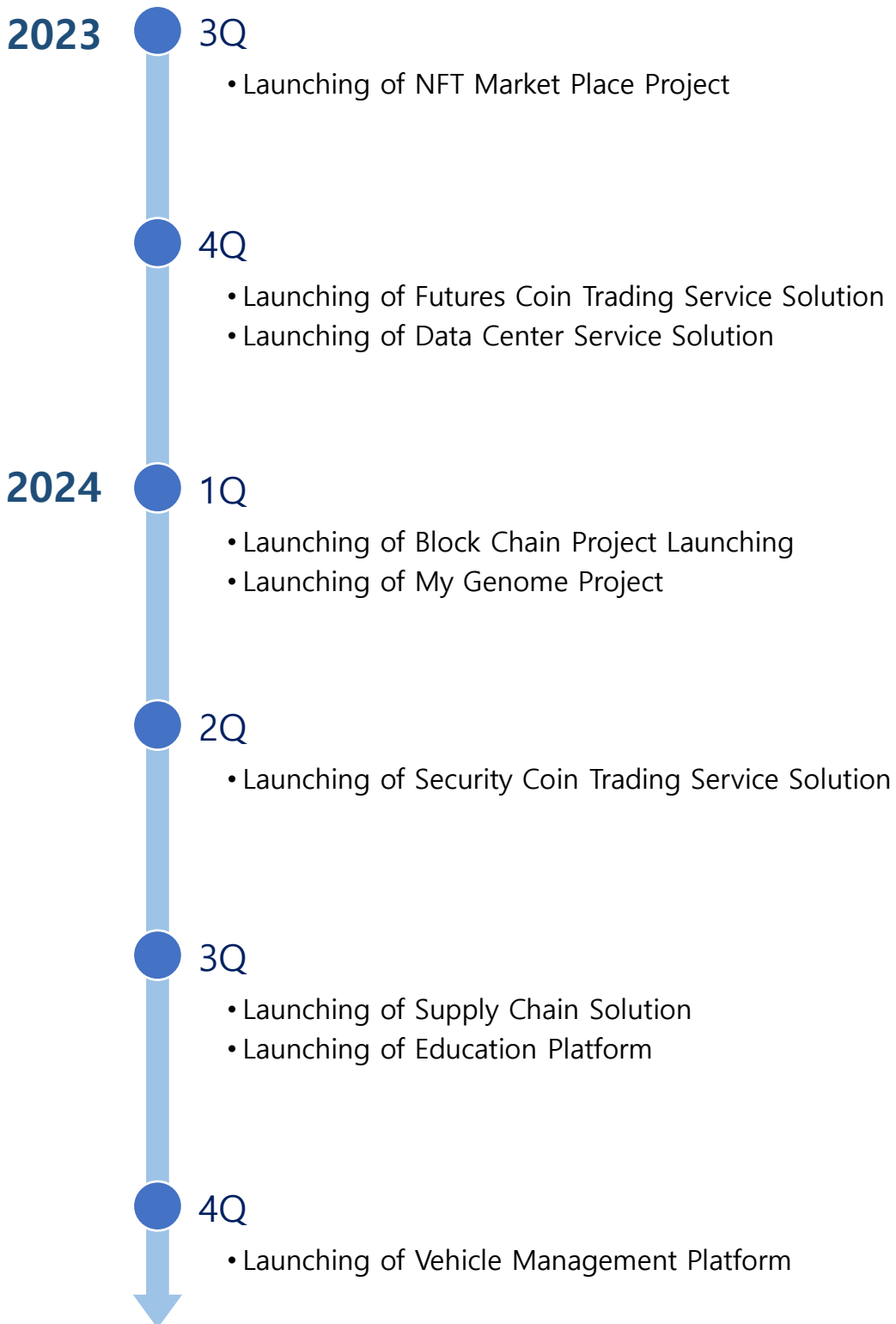
Affiliates and payments; (35%)	Lock release by arrangement when payment for exchanges and companies
Business expand Partners (20%)	Unlock the lock when the quantity is distributed according to the contract conditions after the project is confirmed.
Marketing support (10%)	Support the cost of the marketing operations expenditures. Allocate the ratio and unlock in accordance with the enlargement enterprise when expansion of the business.
Team members and advisors (3%)	Team member 1.5% / Advisor 1.5%, - unlock 10% monthly after 2 years.
Airdrop (7%)	Reward for the marketing enterprise, pre-sale airdrops, and airdrop volume for invigorating the user.
Presale (15%)	Unlock 10% monthly after 6 months since IPO(initial public offering).
Provide liquidity (10%)	Volume of deposit and volume of reserve fund for the stabilization of the market when IPO.

The Plan for use of fund is as follows:



Service operation and maintenance (30%)	Use Funds for the operation and maintenance of the project services.
Licensing (25%)	Use funds for the cost of various license.
Platform development; (25%)	Use as platform development funds to support the various services.
Content expansion and promotion; (13%)	Use funds to dilate and promote the contents of the project.
Marketing (7%)	Use funds for the marketing agreements of the project.

## 8. K-Black Hole Project Roadmap



## 9. Team

### D&T Investment



**Mi-Suk Cho**

CEO

- Joe&Deco Director
- LG Telecom Marketing Creative Team Leader
- Toronto Canada & Chicago USA Business Consulting Firm



**Jong-Wook Kim**

Marketing Leader

- Dow D&C Co., Ltd. CEO
- CEO of Sejong IBC
- Suhyup Bank Investment Advisory Committee
- Gimpo-si, Gyeonggi-do Urban Renewal Project Advisory Committee
- Korea Housing Association Public Relations Manager



**Jong-Won Kim**

Sales Leader

Vice President of Korea Blockchain Entrepreneur Association  
Vice President of Korea-CIS Entrepreneurs Association

- CEO of Maven Education
- Director of Pagoda Foreign Language Institute



**Jung-Han Gwon**

Technical Leader

- Expertise in Blockchain
- Exchange core
- Exchange matching engine

## 9. Team

### Advisor & Partner



#### Sung-Joon Park

Chief Blockchain Advisor

- Head of Blockchain Research Center, Graduate School of International Information Security, Dongguk University
- Korea Internet & Security Agency (KISA) Infrastructure Technology Team Leader
- TTA Blockchain Sector National Standards Expert Committee
- Seoul Blockchain Advisory Committee
- Chairman of the Information Security Research Committee of the Blockchain Society under the Ministry of Science, ICT and Future Planning
- National Security Research Institute Blockchain Future Task Expert Advisory Group



#### Se-Yong Roh

Advisor

- CEO of Union Mobile
- Managing Director, LG Electronics
- Managing Director, LG U+
- Managing Director, LG Electronics



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Thank you

