

# CyDotori.

The Cyworld Metaverse

CyDotori Whitepaper



# Represent Korea as a Social Network

## Abstract

Cyworld, which was launched in 1999, is one of Korea's representative social network services. The basic framework of Cyworld was that users become 'ilchons' (friends that have shared their real names) based on offline/online activities and shared their daily lives, photos, and music through Cyworld's 'mini homepage' service. As Cyworld was synced with Nateon Messenger (used in cellphones and PCs) and SK Telecom cellphones, it contained a vast amount of user data.

Also, character skins, music, and items that were used to decorate 'Mini homepages' were bought using cyber-money named "Dotori". The mini home page project, consisting of mini-me and mini-room, was loved by the whole country and became a countrywide sensation together with Cyworld's Dotori. In 2007, CNN reported Cyworld as one of Korea's leading IT cultures. But as new social networking services came along, Cyworld became less popular and closed down. The user data that had been accumulated over a long time disappeared into people's memories.

The DOTR Foundation plays an important role in developing the mainnet, issuing Cydotori Tokens and building a virtual ecosystem in the metaverse world through the vast user database pursued by Cyworld. The new Cyworld will be based on a more advanced lifestyle metaverse platform and move away from the ordinary structures of other social networking services. The new Cyworld will develop into a new space made by and operated by users while linking together with other services. CyDotori Tokens will initially be minted as ERC-20 tokens for quick roll-out and expansion and will be converted into the mainnet later on for DApp partners and additional service expansions.



# Hello, Again World

## Introduction

In the early 2000s, when the Internet itself was a sensation, Cyworld's Mini homepage was the best way to express one's personalities and color. The 'Minime' was the perfect avatar that allowed users to express their unique personalities that they could not do in reality. Users decorated their Mini homepage skins, chose their Mini-homepage's BGM, and decorated their mini homepages in the form that they wanted to. The diaries and photo albums inside the users' mini homepages were filled with precious memories. Such posts and photos sometimes developed into trend-leading memes.

In order to purchase an item to implement the above-mentioned aspects within the platform, users purchased a point called 'acorn', and there was a time when the maximum amount of transaction was over 5 billion won per-day. To decorate their mini home pages, users bought 'items' with cyber-currency 'Dotori'. The maximum daily transaction was over 5 billion won. Dotori was used to express oneself online and to communicate with Ilchons. Purchases with real-life money were a common phenomenon as Cyworld was a metaverse platform.

From the past to the present, the concept of the metaverse has broken down the boundary between the virtual and reality, and also has shown that it is possible to perform real-life activities in a virtual space. Also, possessing and transacting real value in virtual space through blockchain has already been proven as a fact. The new Cyworld mini homepage will contain our memories and individuality and will utilize the latest technology and trends around the Metaverse and blockchain technology to introduce an expanded worldviews and provide new and technologically advanced services.

## CyWorld as the Metaverse

The new Cyworld will implement various new services in the huge metaverse worldview. First, we intend to provide an open market decentralized platform and related services for Metaverse by constructing a virtual asset ecosystem using Dotori and CyDotori Token. Users will start their activities on a familiar platform in the beginning, but will experience various activities on a continuously expanding metaverse platform in the future.

Cyworld aims to provide a new style of social networking service. Users will be able to freely engage in various DApps such as CyDID or CyClub. Each user is provided with a storage space combining SNS and blockchain technology through CyCloud enabling each user to build a platform that can interact with other metaverses by creating their own metaverse in CyCloud.

When a new platform is built, the CyDotori Token will become the new Cyworld's key transaction method and will become the basic unit that validates all user activities. This allows the user to build their own virtual world beyond their mini homepages and use services that encompass content such as music, webtoons, and games, and services covering the user's lifestyles such as location-based markets.

## Platform Overview

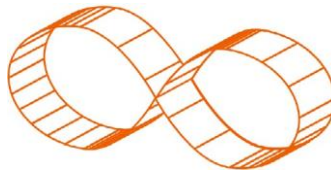
The Dotori from the previous version of Cyworld will be converted into blockchain tokens (CyDotori), which will be used in the new Cyworld, a metaverse that provides an overall lifestyle method including music, webtoons, video s, and beauty.

The new Cyworld will be built in phases based on three key pillars:



### Cyworld Classic

A small metaverse that provides a mini homepage with analog feelings, the beginning of the metaverse



### CyClub

An SNS platform operated mainly by community content and content streaming



### CyDotori Marketplace

Tokens of domestic and foreign blockchain startups and digital asset trading platform for users

## 1. Cyworld Classic

The most fundamental element of the new Cyworld is Cyworld Classic. Cyworld is a platform that enjoyed national popularity in the 2000s, and many users are hoping to recover their memories and waiting for the sensibility of that time. With these factors in mind, the Cyworld team will restore the existing data and start by restoring old IDs and Dotoris to announce the start of the official Cyworld revival. When Cyworld temporarily opened on October 15, 2021, the number of users reached 8,727,000, exceeding the number of monthly active users (6.8 million) in its heyday, showing how much the public is waiting.

Many users were complaining that existing SNS were boring. The MZ generation found the solution to that boredom in the metaverse, and as the MZ generation grew together with the Internet they had no objection to consumption in virtual space. However, there were many cases where the other age groups had difficulty accessing the metaverse, as the metaverse is a trendy online space that changes quickly.

With the trendy metaverse in mind, Cyworld Classic will serve as a platform to revive the memories and emotions of marginalized generations and serve as a bridge to the metaverse. Cyworld will be starting with a familiar platform and later evolve it into the world of pure metaverse and become a platform where anyone can easily participate. Cyworld Classic is the most essential and basic platform to start this evolution.

## 2. CyClub

CyClub is a content production and consumption platform based on Cyworld Classic. CyClub encompasses music, webtoons, video, beauty, and overall lifestyle services. When a large number of people gather, there must be content suitable for them to generate consumption and to activate the community.

As its first steps, CyClub will focus on content creators to produce content necessary for the Cyworld ecosystem. But like the old Cyworld, all users will become both content creators and consumers as time goes by.

Everything will become content; not only generally accepted content such as music, webtoons, videos, and beauty, but also episodes and emotional writings created by users themselves will become content. In this process, popular-content supported by users will be proved ownership, and will be consumed by users who own CyDotori Tokens.

CyClub will be linked with CyDotori Marketplace, allowing users to trade content created and consumed.

## 3. CyDotori Marketplace

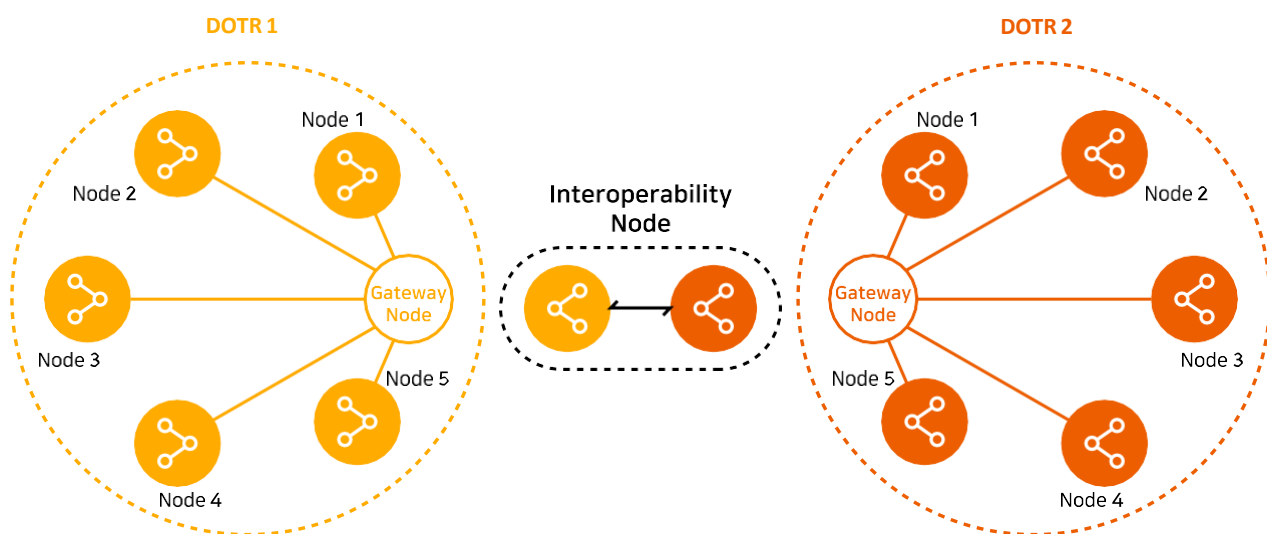
Cyworld's CyDotori marketplace basically provides the ability to consume and trade items and various contents and services through CyDotori Tokens between users. Users will experience a metaverse environment through Cyworld Classic and CyClub and naturally increase their interest in other digital assets by using blockchain-based DApp services. To provide these services, the Cyworld Metaverse CyDotori Marketplace plans to build an exchange ecosystem within the platform where tokens of blockchain startups participating in the Cyworld Metaverse ecosystem can be freely traded. In other words, Cydotori Marketplace will act as a decentralized exchange that relays P2P transactions between users, and at the same time become a marketplace where tokens of various partners can also be traded.

In the new Cyworld Metaverse, users can request and express their opinions on the services they want, and they will also be given an environment where they can trade tokens issued by new service providers that have been confirmed. All these governance aspects will be realized with CyDotori Tokens.

## Product Design – CyMetaverse Chain

The existing Cyworld's mini homepage space was a space to express an individual's individuality in 2D, but each item did not have value apart from the platform, and access to personal data had to depend only on the choice of the platform. These limitations were not limited to Cyworld but were common among other contemporary social networking services. To escape these limitations, the new Cyworld will create a new advanced platform together with blockchain to explore new possibilities with the CyMetaverse.

By composing CyMetaverse Chain nodes and Dapp partnerships for ecosystem configuration and management in stages, each role and authority is clearly defined to increase efficiency.



As each blockchain has distinct characteristics, DOTR enables cross-chains with ERC-20, Klaytn, Huobi Ecochain (HECO), and Binance Smart Chain (BSC), enabling DOTR to adopt a multi-chain method instead of being limited to one ecosystem that adds value to other ecosystems and makes the original ecosystem more robust.

The representative layer 2, HECO and BSC, are protocols that solve the scalability problem of Ethereum. By providing faster transfers and lower fees compared to the existing Ethereum network, DOTR enables fast scalability of DApps operating on the Ethereum network, reduced fees, and linkage with other chains.

This enables developers to focus on the original project without having to solve essential problems such as the gas price or transaction speeds. As a result, users get the opportunity to use more DApps. For example, swap-related projects such as Pancake Swap are designed based on Uniswap's basic mechanism, with differing Front, UI, and operating policies. In other words, it is not only fully compatible with the Ethereum main network, but also provides services with improved UI and UX without the need for designing and developing a new mainnet.

By doing this, the ecosystem will become more robust and diversified, and it will be able to meet the needs of a variety of consumers, leading to the development of the ecosystem. For these reasons, DOTR builds its own layer 2 compatible mainnet based on Ethereum.

Another axis of the ecosystem is the swap function such as Klaytn. The reason swap is important is because more participants can bring in various virtual assets. Therefore, an interbridge that connects different blockchains and is compatible with each other is essential. Therefore, DOTR constructs its own mainnet, and it builds a bridge to connect to other mainnets.

Through the two axes, various DApps can be developed and released, and an ecosystem where various digital assets can be traded and swapped can be created. This means that through Multi-Chain, it is possible to support differences and services rising from different business structures and expand the ecosystem. Also, when it is possible to apply and operate business structures from various fields and sectors within DOTR, it will be possible to develop DApps with differing designs and to support the token ecosystem model that suits the characteristics of different tokens. By supporting other types of token economies, it will be possible to expand into various businesses regardless of the existing structure.

## Main Products

Prior to developing the current CyMetaverse Chain, the following products are the core products and services.

### 1. CyClub

CyClub is Cyworld's blockchain social network. Users can experience a more advanced social network service by experiencing new content and entertainment in the metaverse provided by Cyworld Classic. All content that is communicated and uploaded in the form of text and voice is saved within the storage space provided by Cyworld. In addition, the content is linked with the CyDotori Marketplace to implement token transactions between users. In addition, all user activities and transaction details are recorded in the blockchain which can prove ownership of content and ensure transaction transparency.

In detail, it provides the following functions :

#### - Token gifting and transfers between users

A wallet function is supported enabling token gifting and transfers between users.

#### - 100GB storage space provided CyCloud :

CyClub supports 100GB of storage space for all users. Users share user-generated content such as photos, videos, and sound sources using the storage space. Additional storage space of up to 1TB is provided as a reward for activity and inviting other users to the CyDotori and Cyworld Metaverses.

The reason that more storage space can be allocated to users compared to other platforms is due to the IPFS (Inter Planetary File System) and distributed file systems are the main foundations of the storage space. IPFS is a distributed peer-to-peer (P2P) file system that intends to link all computers. Since distributed nodes distributed around the world store the same information, users can store and retrieve data much faster than the existing HTTP method by using IPFS.

The principle of IPFS is as follows.

- 1.The contents of the data are converted into hash values and distributed and stored in various computers around the world.
2. When retrieving the contents stored in this way, data is divided into small pieces.
- 3.Then the IPFS quickly fetches the divided data and merges it into one. As a result, even 9PB(Petabyte) worth of data can be stored in IPFS format.

As a result, a vast amount of data of 9 PB (Petabyte) is actually stored in IPFS.

IPFS is called a decentralized web because of its structural characteristics. IPFS cannot be tampered with, and data cannot be lost because there is no centralized server. In addition, as middle managers and servers do not exist, users have ownership of all data. A big advantage of IPFS is that users don't have to worry about censorship or data loss.

#### **- Record the user's brass records and transaction details on the blockchain**

All records of content created and consumed by users within CyClub are recorded on the blockchain. By being recorded on the blockchain in this way, ownership can be proven. Content that can prove ownership is all content including photos and videos. In addition, when exchanging or transacting CyDotori Tokens and tokens of other partners within Cyworld, the transaction details are also recorded on the block chain to ensure transparency in the transaction.

## **2. CyDotori Marketplace**

Cyworld's CyDotori Marketplace supports the token activation of various blockchain startups and focuses on building other token ecosystem networks.

The DOTR Foundation will add a CyDotori marketplace to expand and revitalize the ecosystem. Like the existing-DEX, users can participate in advance voting for coin stocks listed on the new platform using CyDotori Tokens, and trading fees can be paid using DOTR. This will allow more people to participate in the platform and will allow CyDotori Token to quickly dominate the market.

In the CyDotori marketplace, various products, items, and services can be used through CyDotori Tokens. Products, items and services may be unique items created by users or services of DApp provided by partners or products and shopping items provided as part of marketing and promotion even if not partners. The CyDotori Marketplace connects the Cyworld Metaverse platform and the CyMetaverse Chain, so that all transaction details are recorded on the block chain, and when all transactions are made, the CyDotori Token is used as a fee.

### 3. CyDID(Cy-Decentralized Identifier)

In the existing social login, the ad tracking problem has always been criticized. Leakage of personal information has now become a common problem, and some services have even sold user data to advertising platforms, leading to privacy issues. CyDID, which complements this problem, is a system for secure login and security of users. It will start with a system based on Oauth and evolve into a system based on DID.

CyDID aims to achieve complete user privacy protection by monitoring logged-in information, where it is used, and the purpose of use within the platform. By implementing an abnormal login detection system with FDS (Fraud-Detection System) and Machine Learning, it prevents infringement of user's personal information and blocks abnormal ad tracking.

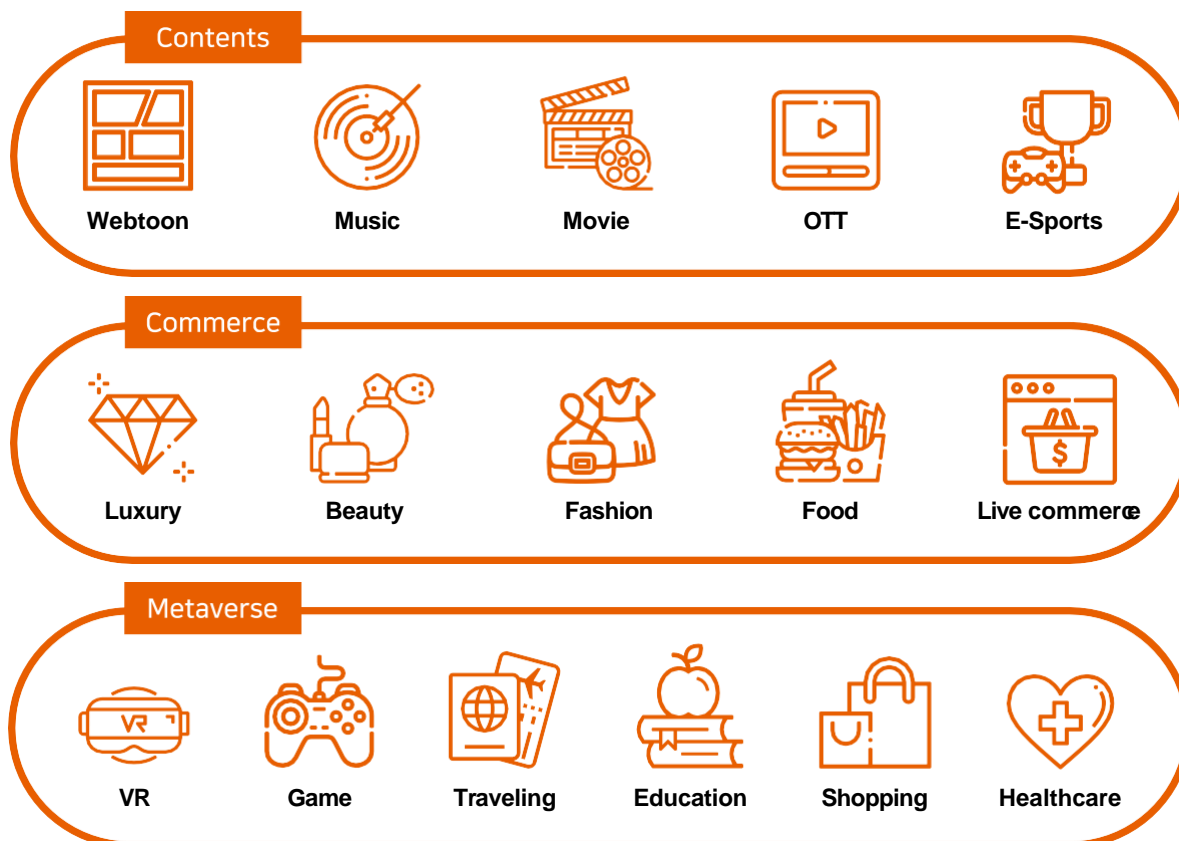
If the CyDID-based login system is activated, users can choose a transparent personal privacy policy, and when third-party apps and services try to run advertisements, users can receive rewards for viewing advertisements and the impact on the service ecosystem can be monitored.

Therefore, when the CyDID ecosystem is activated, companies and commercial advertisement execution platforms, including users, can transparently hold various events and hand out rewards, thereby increasing the participation rate of individuals.

## DApp service partner

In order to expand the existing platform to the metaverse, it is necessary to plan, build, and activate various DApps, and through this activation, various services must be provided to users. However, considering the characteristics of blockchain, it becomes nearly impossible to provide such a service unless it is an infrastructure that is scalable and has a high processing speed. In order to build an infrastructure that can utilize this, the DOTR Foundation will recruit high-quality DApp service providers that can be quickly onboarded for a certain period of time after the mainnet is opened. These providers will play a major role in the Cyworld metaverse by assuming the role of PMs within their respective areas.

### Main DApp Partner Recruitment Areas (Infographics)



The above areas will be built as the DApp areas and DApp partners will be given the right to build.

Through this build-up process, the Cyworld Classic platform will expand into the realm of the metaverse through continuous evolution.

The role of service partners is very important and will be selected through a rigorous screening process. To implement blockchain services based on user base, services that are compatible with Cyworld's Metaverse are prioritized. In addition, only services that can provide real value to average users are selected, and partners who provide services to Cyworld have the option of issuing their own tokens or providing services with CyDotori tokens.

In the future, Cyworld will hold its own Hackathon and Cyworld Meta Miniverse (DApp presentation contest) programs to secure companies with clear strategies for the future or projects with full potential. In addition, Cyworld plans to increase the participation rate by providing CyDotori tokens and additional benefits to DApps that have made a greater contribution.

## CyMetaverse Chain Governance Council

The CyMetaverse Chain Governance Council (CGC) will operate nodes and form a strategic consortium. This is a gathering of governance partners with voting rights on the mainnet, and participating nodes can be added as conditions are met. As individuals cannot be a node, among organizations that are in cooperation with the DOTR Foundation, only entities that contribute in technological expansion to proceed with a continuous business model in the future, or entities that are in charge of expanding the infrastructure of DOTR's ecosystem will participate as nodes instead.

### Roles and Responsibilities

#### A. Node operation

- Partners participating in CGC must install, operate and manage nodes. Partners must have hired personnel that can respond to bugs and failures and communicate smoothly with the Foundation when upgrading. Partners must also continuously stake a certain amount of CyDotori Tokens. The amount that is staked and the rewarded can be changed through the voting of the nodes.

#### B. Governance Participation

- Partners must actively make decisions in the operation, expansion and improvement of CyDotori Token. Partners must also participate in regular meetings and make unified decisions regarding the changing trends and regulations of virtual assets.

#### C. Business cooperation and expansion

- Partners must cooperate with the Foundation for the expansion and stabilization of the CyDotori metaverse and its derivatives. In the midst of changing regulations, partners will promote business together with the Foundation and ultimately operate the most successful metaverse platform in Asia.

#### D. Mutual monitoring and reward are given to each node

- Mutual monitoring is to ensure that each node is performing its assigned role or agreeing to its B315 role correctly. Also, a reward system will motivate nodes to participate. A stable operation of the CyMetaverse Chain Governance Council using game theory will be pursued. The authority to monitor and give out punishments for wrong actions or node operation for self-interest is distributed to each node, and punishment is performed through PoS-based DAO. The rules of punishment are operated through the DAO of the nodes that stake CyDotori Tokens. A node that has staked more than a certain amount of CyDotori can issue a ticket to the DAO, and a penalty system is operated through staking-based voting to determine whether this ticket is valid or not.

## CyDotori Token Economy

CyDotori Token is the key currency of Cyworld Metaverse and it is a payment method that can be used in various ways within the business model that is continuously expanding in Cyworld.

After the development of the mainnet through the smart chain in the future, CyDotori Token will support swapping with coins listed on the CyDotori Marketplace, DID, DOTR-based DApp infrastructure construction, and independent networking that can be linked to cloud systems.

In addition, as the CyDotori Token is a token that is essential for activities such as participating in governance or launching DApps, it has a variety of uses and value rising from its inevitable high demand and frequency of use, where it has different utilities and high usage rate.

The usage and utility of CyDotori Tokens can be summarized as follows.

### 1. Metaverse's open market service payment method

In the metaverse of Cyworld Classic, users use CyDotori Tokens to use open market services such as music, games, webtoons, photos, styles, and education. Service usage refers to all activities regarding construction of a world unique to the user's content consumption, reproduction, and sale rather than a unilateral consumption of content.

### 2. CyDotori Marketplace's key currency

The CyDotori Token is also used as the key currency of the CyDotori Marketplace operated by DOTR Foundation. Users can participate in pre-voting for coins circulated on the CyDotori Marketplace with CyDotori Tokens. CyDotori is also used as a means of payment for trading fees.

### 3. Rewards paid to ecosystem participants

CyDotori Tokens are paid to users participating in CyClub and CyMetaverse DApps according to their activities and contributions and through various events. It will be used in the underlying CyMetaverse chain DApps and general services.

The CyDotori Token will be used for CyDotori Token staking as follows to implement the Defi ecosystem.

## Staking Service

When staking CyDotori Token, users will be paid interest. Such interest will be paid according to the period and scale of staking in the form of a locked CyDotori Token for a certain period of time, which will be automatically converted into a usable form after the period has elapsed by the smart contract.

Users and nodes who agree with the future value of CyDotori Token will stake CyDotori Token, which will serve as fuel for various activities in the metaverse. In particular, an operating model that will encourage staking will be established by configuring an exclusive activity in which staking must be staked over a certain amount as an operation policy. Through this, the lock-up effect of the token can be predicted, and this will be a major point in the rise of the token's value.

## Foundation Technology

### FDS

CyMetaverse Chain, the mainnet of Cyworld, will integrate an anomaly detection system and KYC (real name authentication) into the mainnet by building an FDS that has been verified in the financial sector.

Regarding transaction details coming from CyWallet and CyMetaverse Chain, it will follow the guidelines for the prevention of anomalies and money laundering in accordance with the financial reporting system of each country's regulatory and financial authorities.

In CyMetaverse Chain FDS, anyone can transparently monitor the abnormal signs of the entire transaction, and when participants add a roulette rule scenario, they can transparently receive rewards. A separate Deep Insight FDS Monitor for financial regulators is also available for financial crime prevention.

### CyDNS

CyDNS is as intuitive as a website's WWW address system, and has a unique address system that is not vulnerable to phishing organizations. As the existing address systems of Bitcoin and Ethereum are anonymous, random text-systems, they are vulnerable to fraudulent activities such as remittance mistakes and phishing.

The address system in CyDNS uses separate unique user nicknames, sorted according to its affiliated organization. We can verify the verification of the wallet address through the verification mark.

Category	Pre-Fix	Example
Government	GOV	Korea.GOV USA.GOV
Company	COM	Apple.COM
Foundation	Foundation	BitCoin.Foundation ETH.Foundation
Bank / Financial bodies	BANK	Seoul.BANK
Private	User	John.CyWorld Olive.Korea.Seoul

## Decentralized Cloud Storage

Cyworld will build a multi-chain-based system. Cyworld aims to be an inter blockchain connecting various mainnets such as Ethereum and Bitcoin, storage blockchains such as File Coin and CHIA Coin, and blockchains specialized for computation such as EOS.

To achieve this, the interchain system is implemented as a testnet to test the possibility, performance, security, and scalability.

The CyMetaverse Chain will construct the CyDotori Bridge, which will provide a more scalable system by connecting mainnet outside Cyworld. It be based on the CyDotori token and will have functions such as a payment system, operation, and Ethereum compatibility.

CyDotori Bridge is an inter-chain service that operates as an inter-chain system for interworking or connection between CyMetaverse Chains and compatibility with external mainnet services. It operates as a hub connecting Cyworld and the world outside Cyworld.

CyMetaverse Chain is based on Ethereum smart contract and operates in a form that supports ERC-20, ERC-721, and ERC-1155. It aims to implement a variable TPS of 150 ~ 1000 TPS. Also, as a DPoS-based mainnet, it aims to seamlessly support users' activities in Cyworld.

Afterwards, the Cyworld cloud storage service (CyCloud) based on Filecoin and CHIA Coin will be launched. By utilizing the blockchain-based cloud storage of Filecoin and Siacoin, CyCloud aims to provide users with storage that is about 10% cheaper than existing cloud storage.

CyCloud aims to provide affordable data storage capacity in the 5G era, and prioritizes privacy, security and availability. More than 50% of PC storage is wasted as idle space. From an environmental point of view, the usage of this idle space in CyCloud is eco-friendly.

CyCloud is a CDN, cloud storage, decentralized storage, and cold storage that has a multi-layered storage system and storage usage scenario. It does not exactly correspond to other storage chains such as Filecoin and CHIA Coin. Therefore, development is divided into Phase 1 and Phase 2, and in Phase 1, the existing storage blockchain, CDN, cloud object storage, and cold storage are appropriately distributed and used. After advancing development and analyzing users' storage usage patterns to secure optimized storage usage scenarios through machine learning, CyCloud will expand to its own decentralized storage mainnet.

## CyDotori Bridge

Cyworld is a set of extensible components and is also the backbone of the metaverse with its infinite possibilities. CyDotori Bridge is a mainnet that operates as a shuttle and bridge that connects newly added blockchain-based services, mainnet, and existing legacy systems. The CyDotori Bridge aims to provide APIs and smart contracts that can be easily used by consumer oriented developers by tying the characteristics of various mainnets into one- form.

CyDotori Bridge focuses on intercommunication and operability rather than speed (TPS). In order not to cause any problems in sending and receiving user core data of CyDotori Bridge under any circumstances, high availability (HA), firewall, and IPFS are built and operated.

## CyMetaverse Chain

The CyMetaverse Chain can be said to be inseparable with the history of Cyworld. The old Dotori payment system can be said to be the beginning of domestic virtual currency, and it worked as a means of bringing a fair share of profits to musicians, artists, and creators. The CyMetaverse Chain can process large transactions of up to 2000 TPS or more and has a low transfer fee compared to many mainnets such as Ethereum and Bitcoin, making it more suitable for PG, small transfers, payments, and item purchases.

This is achieved through the establishment of an Ethereum network through the DPoS-based governance council by combining the advantages of mainnets operating in L2 form such as smart contract system based on Ethereum virtual machine (EVM), Huobi ECO, and Binance smart chain. Users can experience fast block generation and stable usability through DPoS council nodes, and developers can expand their service by migrating to the existing Ethereum language and system. Cyworld will provide cross-chain development and debugging tools to develop DApps that will provide users with easy access to blockchain.

## CyCloud

The core of Cyworld is in its data storage. The memories and records of users accumulated for decades cannot be replaced with anything. However, due to the nature of the Internet, data is continuously lost and damaged. The goal is to make it possible to upload and delete users' data immediately on demand by introducing storage services based on Filecoin and Siacoin that will enable data to be stored for long periods of time. Blockchain storage enables semi-permanent storage of user data at an affordable price. If blockchain storage is used, it will provide an environment where users can use the Internet without worrying about data loss.

However, the current blockchain storage technology is in its infancy. Only products in the PoC (Proof of Concept) stage are listed. Research is still needed on how to safely store and efficiently use large amounts of user data in Cyworld. For this reason, CyCloud aims to build its own mainnet for R&D and aggressively introduction of new technologies. The goal is to allow users around the world to use 1 terabyte of data for less than 10 cents per year. To achieve this, CyDotori Token-based storage rental/payment/usage services will be built, user storage space will be shared, and blockchain-based lightweight clients will be supplied (as CyDotori Token compensation).

## CyDID

CyDID will create a new type of blockchain based on social graphs. Various types of DID resolvers and identity authentication services such as W3C DID v1.0 standard, Microsoft Sidetree, Metadium, Omni-One, PASS, and Hyperledger Indie have been released, but they are experiencing considerable difficulty due to fragmentation and failure to secure many users.

CyDID will aim to provide a next-generation DID service through CyDotori Bridge and CyDID (and silo) connected- to the CyMetaverse Chain, which will enable CyDID to be interoperable between DIDs, secure sufficient user data, confirm user identity, and create secondary trust identities using Ilchons.

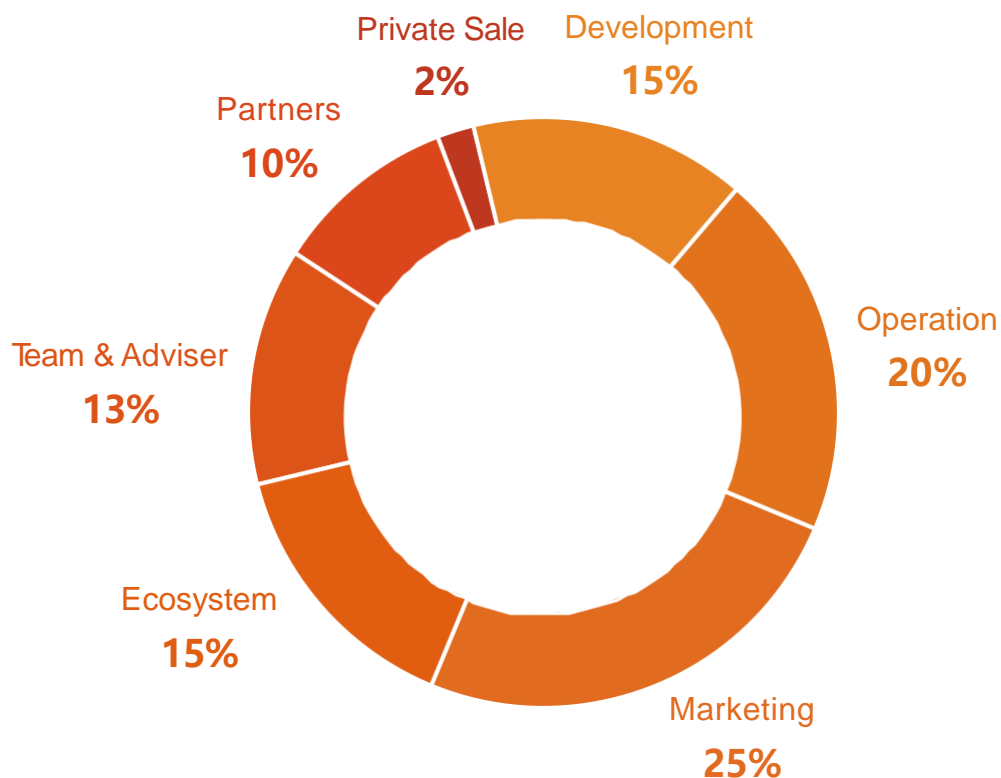
Through DID, Cyworld users will not need to exchange business cards or SNS information to be connected. Users will be able to be connected to each other just by becoming Ilchons. To achieve this goal, an extended W3C DID schema will be used.

CyDID's goal is to prevent traditional social networks from targeting advertising through privacy protection.

CyDID can be used to give out minimal amounts of personal information, protect privacy through 3rd party DApps, create profiles for financial transactions, and carry one-time transactions. Using CyDID, users can check in which system their login information was used and what information was exposed.

## Token Distribution

Token name	CyDotori Token
Symbol	DOTR
Initial total	10,000,000,000 DOTR
Blockchain network	It is first issued as ERC-20, and when the CyMetaverse chain is officially operated, it will be used as the mainnet key currency of the chain.



Index	Rate	Lock-up Plan
Development	15%	40 month Vesting
Operation	20%	40 month Vesting
Marketing	25%	40 month Vesting
Ecosystem	15%	40 month Vesting
Team & Adviser	13%	6 month Lockup / 34 month Vesting
Partners	10%	1 year Lockup / 28 month Vesting
Private Sale	2%	Unlocked

## Exemption clause

- CyDotori Token exemption from responsibility and announcement of general business details

-CyDotori Token is regulated by Singapore Laws. In addition, it is not guaranteed to obtain permission, licenses and approvals in all jurisdictions (countries and regions) where CyDotori Tokens are used.

-CyDotori Token operates in full compliance with relevant laws and regulations, making an effort to obtain licenses and approvals required for operation. CyDotori Token-related services are influenced by the regulations and policies of each country, and no complete guarantee can be offered as to whether they are licensed or approved. Therefore, in case where an appropriate license failed to be obtained within the service jurisdiction, the CyDotori Token service may be restricted or rejected in the App Store.

1.The value of virtual currency changes every day. Transactions or balances of virtual currency can rise or fall sharply. It is important to keep in mind that there is a possibility of which the price of virtual currencies such as CyDotori Token can transform to zero.

2.Depending on the policies of the virtual currency exchange, the decision to suspend trading or delist the CyDotori Token can be made. CyDotori Token shall not take any responsibility for this situation.

3.Transactions of CyDotori Token may fail or become difficult due to decreased enthusiasm among users. In addition, depending on the market conditions or size, the transaction price can be made at a significantly hostile price. This can lead to a risk of trading liquidity.

4.CyDotori Token trading is possible only when the trading counterparty has a similar price. In other words, it can be made only at specific times when there is an appropriate level of trading.

5.If the user loses his/her CyDotori Token account key or password, he/she may not be able to access his/her CyDotori Token account. CyDotori Token shall not take any responsibility for this situation.

6.CyDotori Token operates services and platforms both in the Cloud and IDC. We do our best to carry out security inspection, security patch, and service checks pursuant to each country's security regulations. Nevertheless, there may be difficulty in service access or failure due to security vulnerabilities, zero-day attacks, and DDoS. In this case, CyDotori Token shall not take any responsibility.

7.There is a risk that the business may encounter difficulty continuing the operation due to factors such as changes in the external environment. In this case, the business operation cannot continue. Therefore, all proceedings, including customer assets shall be interpreted in accordance with Taiwanese Laws and shall be conducted pursuant to the Bankruptcy Act, Corporate Act, Corporate Rehabilitation Act, Personal Rehabilitation Act and other relevant laws.

### 8. Tax and income tax

Regarding virtual currency laws and tax regulations, they have not yet been determined at the global level, including Taiwan. Each user is required to consult with his/her country's law firm, tax accountants, or qualified professionals to verify the relevant information. Acquisition and loss of capital produced by the trading of CyDotori Token can be attributed to the Capital Acquisition Act and the Tax Act. CyDotori Token shall not be responsible for any customer's tax payment. For additional information regarding tax payment, each user is required to consult with his/her country's relevant tax advisors or qualified professionals. CyDotori Token shall not be responsible for any personal tax payment. According to the regulations of virtual currency established in each country, CyDotori Token may withdraw its business from the corresponding country or terminate CyDotori Token.

### 9. Securities Token Exclusion

CyDotori Token Whitepaper and supplementary documents are not investment prospectus or financial services proposals. Regardless of country, it cannot be treated (handled) as a securities investment product or regulated product. This Whitepaper and supplementary documents must not be used for purchase or purchase proposals for CyDotori Token and service products. CyDotori Token owners are not entitled to claim any rights to CyDotori Token operators and their related companies, including income, such as royalties, profits, and revenue regarding share, stocks, bonds and capital related to companies or intellectual property in connection with CyDotori Tokens.

### 10. Management and operation of CyDotori

The operation and management of CyDotori Token (hereinafter referred to as "CyDotori Token Steering Committee") shall be conducted by the main wallet as well as wallet for each business purpose through a multi-signature wallet. The multisignature private key of the CyDotori Token Steering Committee shall be stored, managed, and operated by the corporation above mentioned, and cannot be sold, transferred, secured (held), or seized. The "CyDotori Token Steering Committee" shall take effect immediately after posting this document on the website.

#### 11. SAFT

CyDotori Token can proceed with the sale of unissued coins because it is under the Simple Agreement for Future Tokens ("SAFT"). SAFT - related detailed contracts shall be concluded through the CyDotori Token Steering Committee and professional legal advice. The terms of this contract may not be disclosed to the external world depending on the contract.

#### 12. Block deal and IEO

Block Deal and IEO of CyDotori Token may sell unissued coins according to the decision of the CyDotori Token Steering Committee. Relevant detailed contracts shall be concluded through the CyDotori Token Steering Committee and professional legal advice. The terms of this contract may not be disclosed to the external world depending on the contract.

#### 13. Translation

This Whitepaper and supplementary materials are published in English. All translations are for informational (reference) purposes only and shall not take any legal liabilities. No guarantee can be made with respect to accuracy and completeness of the translation. If there is a difference between the translated version and the English version of this Whitepaper and supplementary documents, the English version shall have the right of legal basis.

#### 14. Transmission restrictions

It is not allowed to bring or send this Whitepaper to a region or country where the distribution or dissemination of this Whitepaper and supplementary documents are prohibited or restricted. If this document and Whitepaper was opened online, CyDotori Token has comprehensive immunity rights. Transmission is restricted in the People's Republic of China, where ICOs are banned.

#### 15. Third Party Information

This Whitepaper and supplementary documents contain data and reference information obtained from third-party sources. Even though management believes that such data is accurate and reliable, it has not been gone through independent auditing, verification or analysis conducted by professional advisors from the legal, accounting, engineering, or financial field. Therefore, there is no guarantee regarding accuracy, reliability or completeness of the corresponding data.

#### 16. Opinions of CyDotori Token

Opinions other than the viewpoints expressed in this Whitepaper and supplementary documents belong to CyDotori Token and they do not reflect the official policies or positions of the government, quasi-government, authorities, public organizations, and regulatory agencies of all regions under jurisdiction. This Whitepaper has not been reviewed by any regulatory authorities.

#### 17. Risk description

This Whitepaper and supplementary documents inform the users that the purchase of CyDotori Token may involve significant risks and can bring about a substantial amount of loss. Before purchasing CyDotori Token, the users ought to carefully evaluate and consider the related risks, including those listed in any other documents. Therefore, buyers must not purchase CyDotori Token for the purpose of speculation or investment. Users can purchase or trade CyDotori Token only if they accept the risks inherent in CyDotori Tokens after fully understanding the risks and nature of CyDotori Token and the CyDotori Token business.

#### 18. CyMetaverse Chain and ERC20

The CyDotori Token is issued as ERC-20 and will be converted to CyMetaverse Chain after mainnet development. It counts on blockchain technology. CyDotori Token can constitute a separate blockchain ecosystem and nodes such as Sidechain to reduce transaction speed and handling fees. In addition, data can be stored and preserved in the systems of RDBMS, NoSQL, etc.

#### 19. Professional advice

To decide whether to purchase CyDotori Token, users must consult with lawyers, accountants, tax experts and other professional advisors to suit requirements.

#### 20. Precautions to be taken regarding predictive statements

This Whitepaper and supplementary documents contain not only assumptions and available information about the business operated by CyDotori Token, but also predictive statements based on the beliefs of CyDotori Token. These predictive statements and expectations entail risks and uncertainty by nature. CyDotori Token and its management shall not be responsible for this matter, and the content may lead to results that are greatly different from those expressed in the predictive statements. All predictive statements are based on the date when such statement was made. CyDotori Token and its management shall not be obligated to update or modify any predictive statements to reflect events or situations after the date of such statements or to reflect the occurrence of unexpected events.

#### 21. Security Vulnerability

The open source-based Ethereum mainnet is exposed to several security vulnerabilities. Even though ERC20, one of the most popular blockchain mainnets, is reliable, it may be exposed to some vulnerabilities that are beyond the reach of knowledge of developers and CyDotori Token development teams.

#### 22. Market Creation

CyDotori Token is not involved in transactions between CyDotori Token owners within the exchange. However, if there is insufficient liquidity in the market or in the exchange, it is possible to stabilize the market by supplying liquidity. Nonetheless, if it is prohibited to create the market by law according to the policies of the country where the exchange is located, CyDotori Token observes the laws of each country.

#### 23. Anti-Money Laundering(AML) and Combating the Financing of Terrorism(CFT) Act

CyDotori Token follows the policies of each country's Anti-Money Laundering (AML) Act and Combating the Financing of Terrorism (CFT) Act. When the funds suspected of AML or CFT is introduced, CyDotori Token is obligated to notify relevant regulatory agencies and legal institutions of the fact within 7 days of the inflow of funds. In addition, according to the obligation to report suspicious transactions to National Police Agency of Taiwan and the police of each country, as well as various regulations influencing the Terrorism (Prevention of Financing) Act (cap. 325) and resolutions of the UN Security Council, the selected individuals or groups may be asked to refuse to participate in the ICO and to prohibit the act of providing CyDotori Token services.

#### 24. CyDotori Token ICO Restriction

CyDotori Token limits participation in ICOs for citizens from the People's Republic of China, the USA and ICO-restricted countries where ICOs are prohibited. In addition, pursuant to many regulations influencing the resolutions of the UN Security Council, selected individuals or groups are not allowed to participate in ICOs.

#### 25. Exclusion of relation to capital market product controlled by Singapore financial regulators

CyDotori Token is not a capital market product controlled by Singapore financial regulators (hereinafter referred to as "Financial Supervisory Commission of Singapore"). CyDotori Token is not a financial or capital product regulated by the Taiwanese Monetary Department such as stocks, unsecured debts, business trusts, securities-based derivatives contracts and collective investment products. CyDotori Token is not in charge of traditional financial dividends. In addition, CyDotori Token owners cannot give or resell issuers options for future value. If an authoritative interpretation is made to CyDotori Token by the Singapore Monetary Authority, it may follow regulatory guidelines of Singapore Monetary Authority, or suspend business or transfer a country of the business base. CyDotori Token is making an effort to meet ICO guidelines of the Singapore Monetary Authority.

#### 26. Server failure compensation

CyDotori Token team shall not be obligated to comprehensively compensate for damages to users caused by delays in the approval of the blockchain, connection interruption, node failures, etc. occurred in CyDotori Token. In addition, CyDotori Token shall not be obligated to comprehensively compensate for cyber attacks, service failures, database loss, and server failures. CyDotori Token shall not be responsible for the risks and services specified above as well as the derived financial risks. CyDotori Token recommends ICO investors and CyDotori Token investors to make a careful evaluation of the risks and receive appropriate advice about tax and legal affairs related to regulations, market changes, and cryptocurrency volatility of each country.