

LeisureMetaverse

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1. LeisureMetaverse Project

1.1. LeisureMetaverse

LeisureMetaverse is a new normal community project building a social, cultural, and economic community of Web 3.0 Creators and Fans.

The word 'leisure' originates from the Latin word 'Licere'. Licere means to 'set one free', 'free' here meaning freedom from work and obligation. LeisureMetaverse defines leisure as all creative activity free from work and obligation both online and offline.

Meta means change and expansion, where expansion is not just a mere extension of grounds but a leap to a higher dimension. Metaverse refers to the expansion of the real world into the virtual realm, including the expansion of the traditional economy into the digital economy.

LeisureMetaverse aims to liberate people from work and obligation in the digital economy era introduced by the Fourth Industrial Revolution and technological revolution. LeisureMetaverse considers all creative activities in the digital realm as a new form of labor and hopes to create a new type of employment, Web 3.0 Creator, by sufficiently support of the activities. With economic and creative freedom guaranteed, Web 3.0 Creator is a job opened to any web user and to have fans.

LeisureMetaverse will use blockchain technology to enable Web 3.0 Creators to claim the rights to their digital content created. It will design a reward system for its members through its own LeisureMeta token (hereafter LM Token) and token economy and provide a sufficient reward for Web 3.0 Creators' data and added value.

Through the reward system, LeisureMetaverse will encourage members to voluntarily create and participate in a Decentralized Autonomous Organization (hereafter DAO). LeisureMetaverse's DAO is a social, cultural, economic, and autonomous community of Web 3.0 Creators and Fans. Within its ecosystem, users will form fandoms by following Web 3.0 Creators, which initially a support system, will be further developed into a social, cultural, and economic community with creators.

LeisureMetaverse aims to provide members an opportunity for the unending manifest of creativity through establishing LM Blockchain Twin City, an intersection of a metaverse city of the digital realm and a city of the real world. This will enable LeisureMetaverse to go beyond the virtual world, breaking down the boundaries between virtual and real, integrating the metaverse with the real world to forge a new horizon.

In other words, LeisureMetaverse, as a Web 3.0 Enabler fulfilling the values of rights and rewards by presenting a new type of employment and income source of Web 3.0 Creators, aims to present the new normal of the social, cultural, and economic community.

1.2. Web 3.0 Creator, a new form of employment

1.2.1. 4th Industrial Revolution, a new employment in need

Since the Fourth Industrial Revolution, machinery and automation powered by artificial intelligence and big data are replacing traditional jobs. However, this does not necessarily imply freeing mankind from work and obligations. During the Second Industrial Revolution, machines replaced workers leaving them jobless and in starvation, which is ironic as the period was recorded as one of the greatest economic growths of mankind.

Along with the overall social transformation of the Fourth Industrial Revolution, income must be guaranteed for the technological revolution to truly free mankind from work and obligation. In other words, to free mankind from traditional work and obligations during this revolutionary period, the following should be ensured – 1) a new type of employment and 2) a new type of income source.

1.2.2. Digital Economy

The development of computers, the internet, and information and communication technologies has expanded the traditional economy into a digital one and enabled the transaction of digitalized goods and services through e-commerce and such forms. Within the digital economic system, data shared on the internet gained additional value and digital content became tradable.

1.2.3. Web 3.0

Ever since the Internet, people have begun to share thoughts and desires in various forms of digital content such as text, images, soundtracks, videos, and more. In the Web 1.0 era, information flowed in a single stream, where producers and consumers were distinct and web users were able to access information through the creator's content in web portals.

By the Web 2.0 era, information no longer flowed in a single direction. Due to the rise of platforms, the internet in Web 2.0 became a forum where any web users may create and share content. Digital content, enjoyed by the mass, now created infinite value. However, Web 2.0 internet, a centralized server managing all data, allowed certain centralized entities to monopolize data and its value.

In the era of Web 3.0, platforms are created based on blockchain technology without the control of a central server, therefore allowing users to create digital content with their information without a third party such as the internet giants. Web users are recognizing the true value of data and have begun demanding rights to the sovereignty of the data they generate.

1.2.4. Web 3.0 Creator

LeisureMetaverse redefines all creative activities (leisure) apart from traditional work and obligations as labor. If this redefined labor is sufficiently rewarded, it will be positioned as a new form of employment.

LeisureMetaverse aims to provide sufficient rewards for digital content created through these creative activities. LeisureMetaverse will preserve creators' data and its value using blockchain technology and allow

them to demand the suited rights and benefits of data disclosure and usage. Also, by utilizing blockchain technology, it will issue its token and reward the redefined labor through the token economy.

LeisureMetaverse designates new jobs as 'Web 3.0 Creators' in the Web 3.0 era, where individuals move away from work and obligations to generate digital content through creative activities, thereby realizing their rights to data sovereignty. It aims to allow any web users to become creators, have fans, and be ensured economic and creative freedom to do so. This field of a new job will be part of the LeisureMetaverse ecosystem.

2. LeisureMetaverse Ecosystem

2.1. LeisureMetaverse Ecosystem

Blockchain ecosystem, based on blockchain technology and network, refers to the interaction and a systematic connection between various elements, such as validators, members, services (DApp), DAO governance, token economy, and more.

Through constructing the LeisureMetaverse ecosystem, LeisureMetaverse aims to 1) guarantee humanistic respect and free will, 2) provide trust and cooperation as social capital, and 3) allow members of the community to create incalculable value through creativity and cooperation. As a Web 3.0 Enabler fulfilling the values of Web 3.0, LeisureMetaverse aims to become the core infrastructure of the digital economy where humanistic respect and free will are established and present the new normal of the social, cultural, and economic community.

LeisureMetaverse will be utilizing blockchain to its fullest potential to ensure trust between members, as the initial purpose of blockchain technology is to overcome such issues among unspecified people. Based on the technology's 'trustless' identity, it will allow various interactions such as transactions between members of the LeisureMetaverse.

Validators are those who verify the integrity of data recorded within the blockchain through a consensus algorithm. LeisureMetaverse enhanced performance and at the same time achieved the finality of the transaction by adopting the compound consensus algorithm of Tendermint and Hotstuff. Validators create and verify blocks through the PoA (Proof of Authority) consensus algorithm, the consensus protocol of LeisureMetaverse Blockchain (hereafter LeisureMeta Chain). LeisureMetaverse will secure a sufficient number of validators for a transparent and stable operation as a decentralized system.

DApp(Decentralized application) refers to application services that are autonomously operated through a Smart Contract of the blockchain system, without a centralized third-party organization. Along LeisureMetaverse's various DApp services, the main services will be the Web 3.0 community "I LIKE LM" and "LM Wallet", where rewards are received and as a DID (Decentralized Identity) acts as the portal for the blockchain ecosystem.



DAO Governance is the decision-making system that allows a community to make and carry out decisions to achieve a certain goal. LeisureMetaverse will organize members of the ecosystem into a DAO to ensure

their dignity, free will, and trust, and encourage transparent decision-making and voluntary cooperation through the DAO governance.

LeisureMetaverse has issued its own token, the LeisureMeta Token (LM Token), to activate transactions within the ecosystem, enhance convenience, and create a system that fosters a sustainable economic structure and ensures the right to data sovereignty. This initiative aims to encourage collaboration among participants within the Leisure Metaverse ecosystem. Based on the LM Token, LeisureMetaverse will construct a transparent and safe token economy that will bridge online and offline scenes, and the metaverse and the real economy.

LeisureMetaverse will encourage members to actively engage and cooperate through the token reward model, which will reward according to the contribution based on transparent decision-making and the LM Token upon the self-developed LeisureMeta Chain.

2.2. LeisureMetaverse DAO

2.2.1. The Introduction of DAO

DAO is a rising concept of an organizational structure where all opinions are respected and decisions are made transparently. Since decentralized decision-making with a shared goal is allowed, DAO is being highlighted as the new means of organizational management during the reorganized digital economic system of Web 3.0 and will be the vision of the Web 3.0 community.

DAO must set a constructive path while respecting all user opinions and carry out a transparent decision-making process. Also, added value created by the members of the DAO must be able to be shared based on their contribution. However, most of the existing Web 3.0 projects are failing to reach the full potential of the DAO, such as having a horizontal structure or transparent decision-making, due to the monopolization of the projects or by early purchasers. A new form of ecosystem where anyone is free to participate in the management and be benefited for their contribution is needed.

2.2.2. DAO of LeisureMetaverse

DAO of LeisureMetaverse is a social, cultural, economic, and autonomous community of Web 3.0 Creators and Fans.

Members of the LeisureMetaverse ecosystem can be categorized into general users and Web 3.0 Creators. Users may act as Web 3.0 Creators by creating digital content or following Web 3.0 Creators to form fandoms, which is a community with shared values and goals centered around Creators.

Web 3.0 Creators may receive support from the Web 3.0 Creator Fund. When creators apply for funding, recipients are selected through voting by the I LIKE LM community, and LM Tokens are rewarded within the grant amount. Web 3.0 Creators generate digital content to form new fandoms or strengthen relationships with existing fandoms, and they can utilize specific content, events, or IPs.

Fandoms can consume creators' content and implement or support NFT utilities using the rewards earned through the LeisureMetaverse ecosystem. Within the LeisureMetaverse ecosystem, fandoms will not only support Web 3.0 Creators but also create social, cultural and economic value together with them through a system and governance that secures data sovereignty provided by LeisureMetaverse.

LeisureMetaverse defines this social, cultural, and economic community as the DAO of LeisureMetaverse.

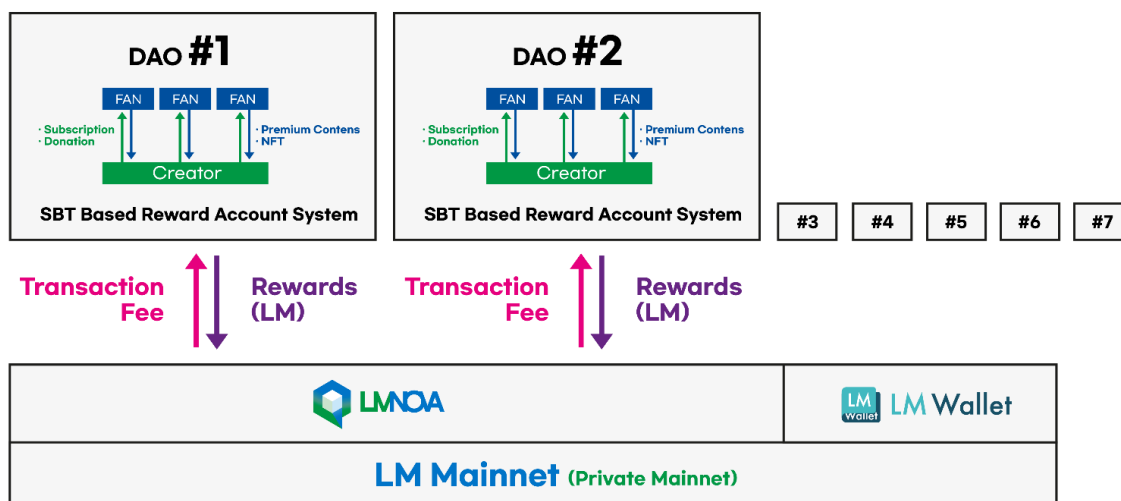
2.2.3. DAO Governance of LeisureMetaverse

DAO governance is a decision-making system for all DAO members to carry out political, economic, and administrative matters with a shared goal. The governance also allows raising different agendas and voting transparently through blockchain technology for specific matters.

The DAO governance of LeisureMetaverse is designed to provide governance voting rights based on conditions on the LeisureMetaverse blockchain. The DAO of LeisureMetaverse has the authority to propose

agendas and exercise voting rights. Through this mechanism, the DAO can decide on the operating rules for Web 3.0 Creators and fandom communities, aiming to enhance the continuous growth and soundness of the ecosystem. It can submit and vote on various agendas, such as decision-making for ecosystem expansion and DApp management. Initially, validators are selected by the development team to ensure sustainable operation, but after the launch of DAO governance, they will be elected through voting.

LeisureMetaverse will be operated by the project during the early stages to establish the grounds but will be gradually transferred into the DAO governance for a decentralized, autonomous operation. LeisureMetaverse DAO will establish the grounds of operation with the project and eventually allow all members to create social, cultural, and economic value with shared goals.



[LeisureMetaverse DAO Governance]

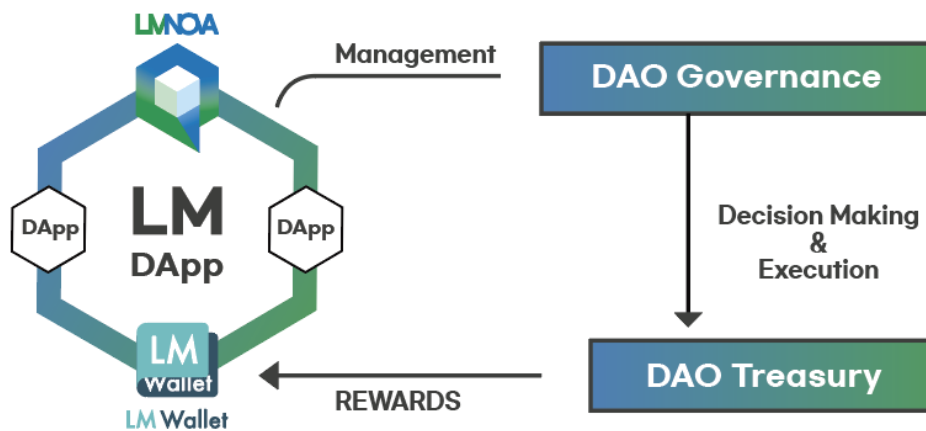
2.3 LeisureMetaverse Token Economy

A limited amount of 5 billion LM Token is issued to anticipate deflation through the increase in demand.

LM Token is mainly classified as LM Token (LMC LM) used within the LeisureMetaverse private mainnet, and the LM Token used for other networks, Centralized Exchanges (CEX), and Decentralized Exchanges (DEX). LM Token will be expanded beyond LM private mainnet to various networks such as Luniverse, BNB Chain, and more through the multichain bridging. LMC LM and ERC-20 LM are used compatibly through the Ethereum-LeisureMeta Chain bridge.

LM Token already exists in two different formats – LM Token of LeisureMeta Chain (hereafter LMC LM) and ERC-20 of Ethereum blockchain. These are interchanged through the Ethereum-LeisureMeta Chain bridge.

Activity within the LeisureMetaverse ecosystem such as trading, and execution will be disclosed transparently through the LeisureMeta Chain scan (<https://scan.leisuremeta.io/>). ERC-20 LM of the Ethereum blockchain is used within the Ethereum ecosystem and for purchase and trading within exchanges, and transparency and integrity will be ensured by disclosing the activity through Ethereum blockchain scans such as Etherscan (<https://etherscan.io/>).

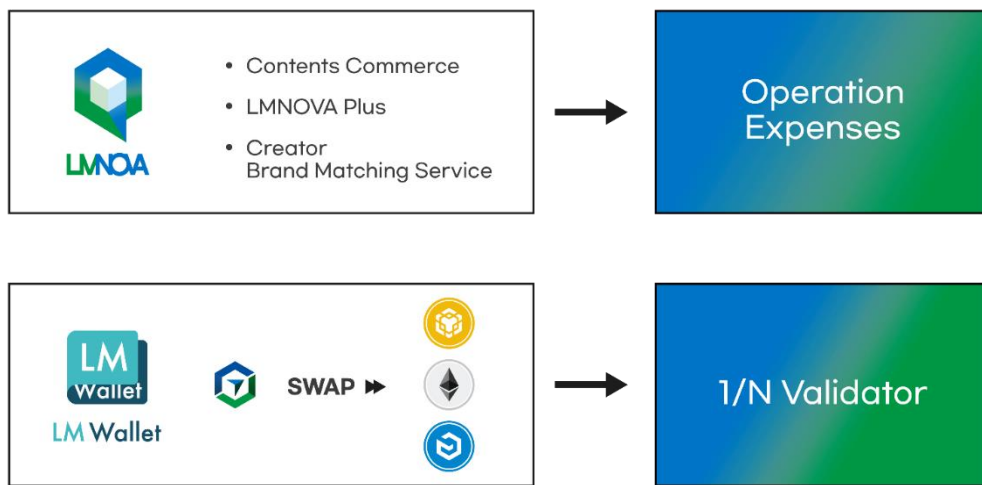


[LeisureMeta Token Economy]

2.3.1 Revenue Model

Members of the LeisureMetaverse ecosystem will use LMC LM Tokens during their activities within the ecosystem. Accordingly, the platform will charge users fees in LMC LM based on predetermined policies. The fees generated within the LeisureMetaverse ecosystem will be utilized within the DAO ecosystem of LeisureMetaverse.

LM LIKE LM charges fees for users utilizing subscription services, connecting advertisers with creators, and product utilization, using these fees for development and operational costs. LM Wallet imposes fees during the transfer of LM from the LeisureMeta chain to other chains via multi-chain bridging, and these fees are provided to the validators of the LeisureMetaverse blockchain. Consequently, validators receive a proportional share (1/N) of the fees incurred when swapping LMC LM to ERC-20 LM and other tokens.



[LeisureMetaverse Revenue Model]

2.3.2 Reward System

Members of the LeisureMetaverse ecosystem are rewarded with LM Tokens based on their contributions. While the initial reward policy is determined by the development team, the authority for distribution will gradually be transferred to DAO governance.

According to the established vesting policy, once the lock-up period for DAO allocated tokens is released, the system will periodically measure the total activity of members to determine the token quantity. The allocation amount for the DAO increases with user activity and decreases if activity is insufficient. When the DAO reward amount reaches a certain threshold, a halving period is applied, reducing the distribution amount by 50%. This halving mechanism ensures that rewards based on DAO member activity can continue indefinitely.

■ DAO Reward

LeisureMetaverse users receive rewards proportional to their activities within the ecosystem. The currently defined initial reward scope includes: 1) creating content using their own data and 2) interacting within the LeisureMetaverse ecosystem. The scope of activity rewards may change as the project develops and the ecosystem expands.

2.4. LeisureMetaverse DApp

2.4.1. I Like LM

I LIKE LM is a Web 3.0 Creator Fandom Community platform. As a DAO community fulfilling the values of Web 3.0, I LIKE LM allows Web 3.0 Creators and Fans to openly create and share digital content.

I LIKE LM users can create and share digital content using their data and its added value. LeisureMetaverse will reward contributions to community activation, encouraging members to voluntarily create, register, and interact with content within I LIKE LM. Through this approach, LeisureMetaverse aims to create new jobs as Web 3.0 Creators and realize rights related to data disclosure and usage, collectively referred to as data sovereignty.



[I LIKE LM's Characteristics]

LeisureMetaverse aims to support members of the ecosystem to openly engage in creative activities in I LIKE LM, apart from traditional work and obligation. Through I LIKE LM and its reward model, Web 3.0 Creators are guaranteed economic and creative freedom.

I LIKE LM users are more than just a consumer in the community platform. They are prosumers who produce and consume merchandise of their interests, and members of the community with decision-making rights on operational policies. When a Web 3.0 Creator creates and shares digital content, users enjoying the content and following the Creator become fans. Centering around the Creator, fans form a LeisureMetaverse DAO of certain value and goals or become included in an existing DAO.

I LIKE LM users form a DAO, actively participate in its operations, and establish its governance rules, making them members of the Leisure Metaverse ecosystem and its community. Within I LIKE LM, the DAO can propose the creation of desired services (such as digital art, videos, IP, memberships, music, event tickets, product vouchers, and more) through its governance structure.

I LIKE LM aims to allow users to easily participate in the operation using its blockchain technology. DAO members participating in the operation will be rewarded based on the data created in the process of participation and its value. Since the user's participation in the operation is based on blockchain technology,

it is processed fair and transparently through the Smart Contract. LeisureMetaverse will solely reward the value created by each participant according to their contribution. DAO of LeisureMetaverse will therefore form a sustainable community based on trust and cooperation.

Users of the I LIKE LM may verify their identity and express their decentralized identity (DID) using the LM Wallet service. I LIKE LM will provide Soul Bound Tokens (SBT), which are non-tradable tokens that inscribe the holder's identity, to Web 3.0 Creators and fandom for identity verification. Thus, users will be able to easily use I LIKE LM service safe from hacking, false impersonation, and such threats.

2.4.2. LM Wallet

Members of the blockchain ecosystem verify themselves and exchange assets through their addresses within the network. Thus, the two most important elements in the ecosystem are the management of the address or the corresponding encrypted key and the management of the assets transacted to the address. LM Wallet is a service provided to safely manage user addresses and LM, anytime and anywhere, within the LeisureMetaverse ecosystem.

LeisureMetaverse invented a multiple-key management system that allows the use of multiple digital signatures in a single account by storing a single user account and the multiple address information assigned per device of the account within the blocks. Through this multiple-key management system, users may create digital signatures while using blockchain-based services with a simple password per device without any plugins.

LM Wallet will be the gateway to all services within the LeisureMetaverse cryptocurrency ecosystem using decentralized identity (DID). The DID technology is a technology that allows users to verify their identities without any centralized third-party certification and have sovereignty over their information.

Users can also utilize the extended network through the multi-chain bridging feature supported by LM Wallet. To mediate the usage and value across networks, LM Tokens will be expanded into standards of more networks. Through the interaction with other DApps from the expanded network, LM Tokens will acquire new usages.

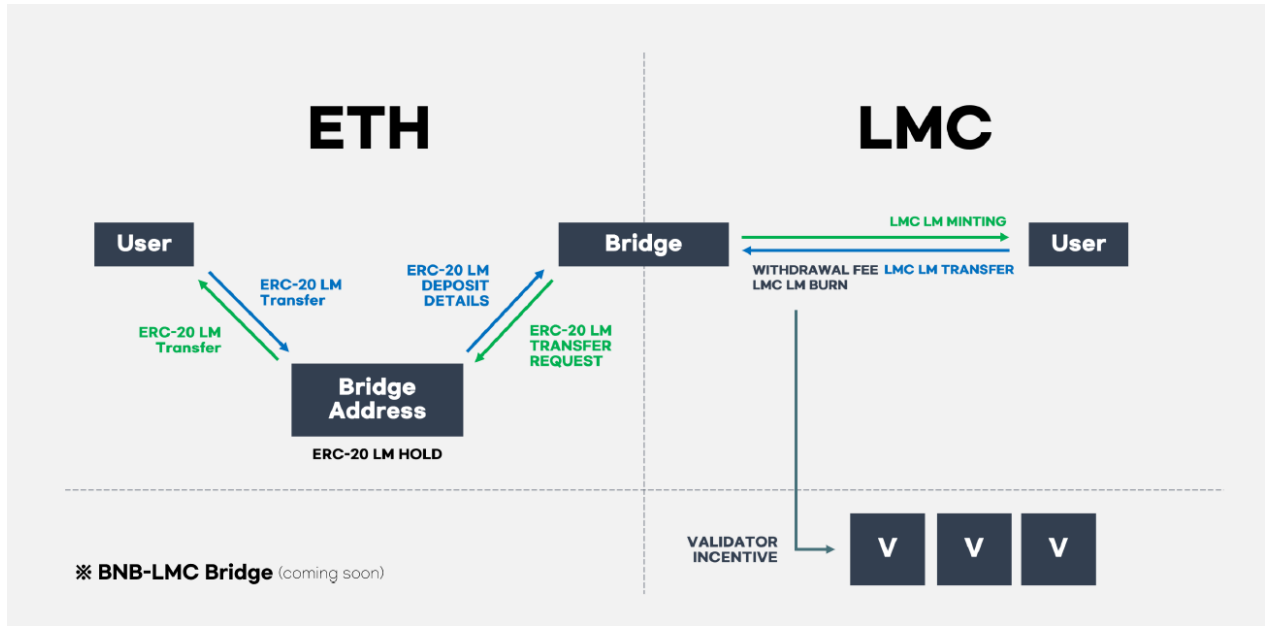
■ Decentralized Identification (DID)

As a gateway to all services of the LeisureMetaverse ecosystem, LM Wallet will be using the OAuth technology to grant users access to all services without any additional verification. Within the ecosystem, the user address will not only indicate the location of the user's asset but also the verification of user identity and ultimately an avatar of themselves.

■ Multichain Bridging

Multi-chain bridging is a technology that connects the LeisureMeta chain with various other blockchain networks through bi-directional bridges. This allows LM Tokens to be exchanged across all connected networks in the formats and standards supported by each network. Consequently, users can utilize LM Tokens to access services on all networks supported by the LeisureMetaverse bridge.

LM Token already exists in two different formats – LM Token of LeisureMeta Chain and ERC-20 of Ethereum blockchain. These are interchanged through the Ethereum-LeisureMeta Chain bridge by the following process. If a user wishes to deposit ERC-20 LM to the LeisureMeta chain, the Ethereum chain's bridge contract address will receive and hold the ERC-20 LM, the LeisureMeta Chain gateway will check the deposit record, and mint the same amount of the LMC LM to the user address of LeisureMetaverse chain. If a user wishes to withdraw LM minted within the LeisureMetaverse chain to the Ethereum chain, the LeisureMetaverse gateway will receive and burn the LMC LM, and the bridge contract address will return the same amount of the ERC-20 LM to the user's Ethereum wallet address.



[LM – ETH Multichain Bridging]

3. Technical Specifications

3.1. Technical Tasks of Current Public Blockchains

Although Ethereum blockchain is the most widely used blockchain-based platform and easily creates NFT value, it is inappropriate to manage regular services. This is because the existing public blockchains, including Ethereum, have limitations of services due to the structure such as low transaction transmission, costly transaction fees, and desperately low data storage.

LeisureMetaverse, based on blockchain, will allow ceaseless transmission of multimedia data and interaction between thousands of users, and the DApp services will be its social network platform. To implement these upon the blockchain, the stated limitations must be tackled.

3.1.1. Finality of Transaction

The first requirement is the finality of the transaction. In a typical web service, a transaction is executed as soon as the payment button is pressed, and the completed transactions are usually irreversible. However, the transaction transfer of Ethereum is not finalized with its creation but only probabilistically as time passes. PoW-based blockchains such as Ethereum allow the reorganization of chains, resulting in an alteration in a completed transaction. To prevent such issues that are against common sense, a transaction must be completed as a block is created, which is known as Instant Finality.

3.1.2. Enhanced Performance

The second requirement is to enhance the performance. LeisureMetaverse's DApp services aim to provide social media services where hundreds of thousands of users interact with one another, which must be backed with at least several hundred transactions per second (TPS). To be qualified with enough nodes is a challenge for existing public blockchains.

3.1.3. Minimal Fee

The third requirement is very low fees. The frequent activities of DAO users within the LeisureMetaverse blockchain ecosystem must be recorded. Therefore, even small transaction fees can pose a significant operational burden. In the case of public blockchains, high fees are often set because incentives must be paid to nodes to maintain the network.

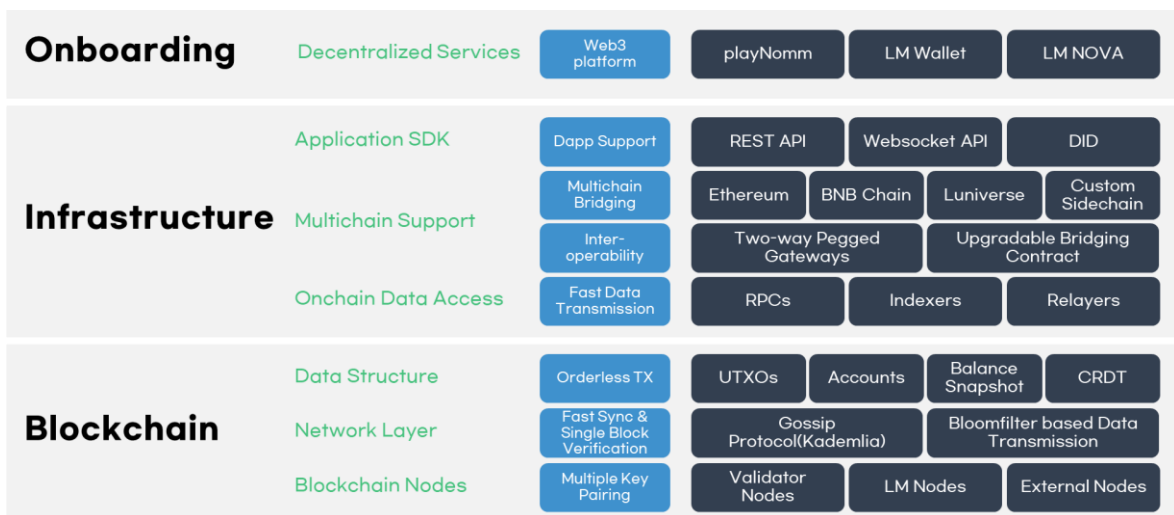
3.2 LeisureMeta Chain

LeisureMetaverse is developed to work through the existing blockchain's common challenges of low-performance level and inconvenient UX.



[LeisureMeta Chain's Features]

LeisureMeta Chain utilizes a compound consensus algorithm of Tendermint and Hotstuff to enhance performance and ensure transaction finality, and Bloom filter to allow simple information exchange by identifying missing transaction information of each node. Additionally, it enhances blockchain usability by linking multiple private keys of devices from a single user address.



[Structure of LeisureMeta Chain]

3.2.1 LeisureMetaverse Consensus Algorithm

LeisureMeta Chain is a blockchain platform developed for the stable operation of services within the ecosystem. To provide a sufficient performance level for service operation, it will be operated in the form of a private blockchain with a compound consensus algorithm of Tendermint style BFT and Hotstuff.

The Tendermint consensus algorithm, known as the consensus algorithm of Cosmos Network, is an algorithm intended to solve the previous PoW(Proof of Work) algorithm's issues such as speed, scalability, power consumption, and more. Thus, it was derived from the PBFT (Practical Byzantine Fault Tolerant) algorithm to solve the integrity and staking proof issues and simplify the voting process. Tendermint consensus algorithm proceeds voting twice in three stages each block stacks during block creation and verification to ensure instant finality.

Since Tendermint proceeds two voting in three stages, data transmission (node communication) results in a high network load and blocks are created slower as more validators are added. In worst cases, no block may be created even after several rounds of voting, resulting in a deterioration of data transmission speed (TPS). PBFT-like algorithm has been updated to tackle such challenges, resulting in consensus algorithms such as Hotstuff. Hotstuff simplified Tendermint's voting system of two voting in three stages into one voting in two stages at the cost of instant finality.

LeisureMetaverse embraces the compromised Hotstuff consensus algorithm based on Tendermint, sampling the advantages of each into a compound consensus algorithm. In LeisureMetaverse, just as in Tendermint, validators take turns creating blocks when the quorum is met. Also, just like the Hotstuff algorithm, voting in block creating process is simplified into one in two stages. Thus, LeisureMetaverse efficiently reduces block-creating duration and at the same time enhances block data processing speed.



[LeisureMeta Chain Block Creation Pipeline]

Maintaining services for public blockchains face various challenges such as low transaction and block creation speed and transaction fee due to the broad network scale. Also, if consensus is made within the PoS which is already based on stakes, without enough validator participants and an appropriate dispersion of the stake, network security may be vulnerable.

Therefore LeisureMetaverse, to maintain regular service until the ecosystem is fully equipped, will be operated in the form of a corporate private blockchain where only approved participants may create blocks. Through the PoA(Proof of Authority) consensus protocol which is the system where verified validators create and verify blocks, LeisureMetaverse will only allow reliable organizations and groups to participate as validators. Since participants are limited, LeisureMetaverse 1) achieves a high level of security against attacks of validators securing 51% of network processing capacity, 2) maintains a high level of blockchain data processing amount, and 3) maintains a low network service fee.

LeisureMeta Chain is a hybrid blockchain of permissioned consensus and public audit. All data will be opened transparently through the block explorer(<https://scan.leisuremeta.io/>).

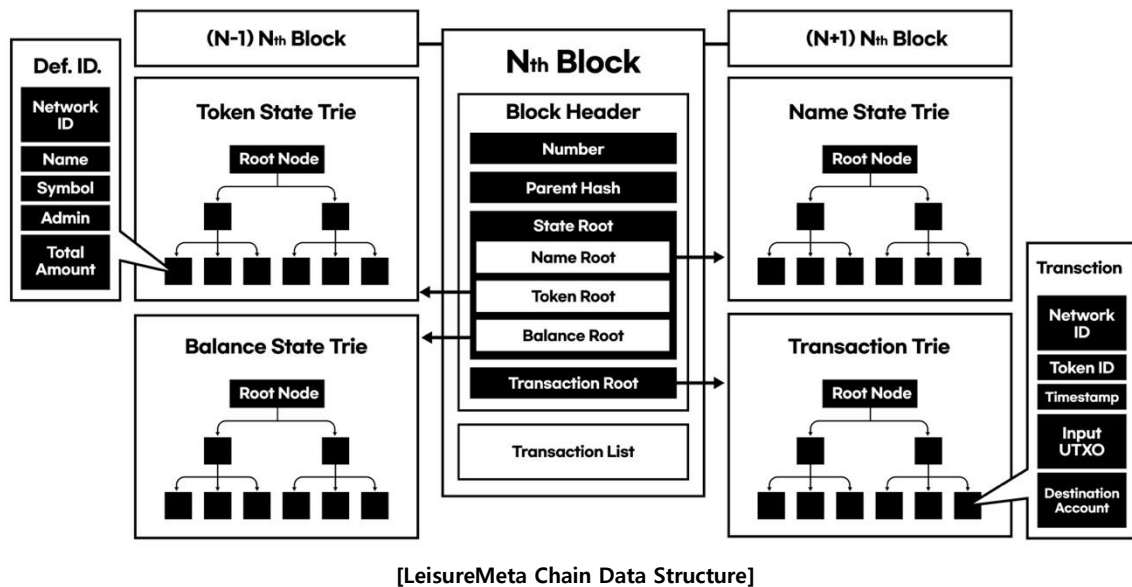
3.2.2. Mixed Data Structures

LeisureMetaverse Chain utilizes a mixed data structure of UTXO (Unspent Transaction Outputs) of Bitcoin and the Account structure of Ethereum.

UTXO structure of Bitcoin only manages transaction transfer history, without separating the balance and the account within the system, thus solving the double-payment problem and enhancing security. Also, through sharding, a database dispersing technology, the structure facilitates the expansion of blockchain processing amount. However, since it only manages transaction transfer history, it is difficult to establish and verify blockchain data status such as a user's balance.

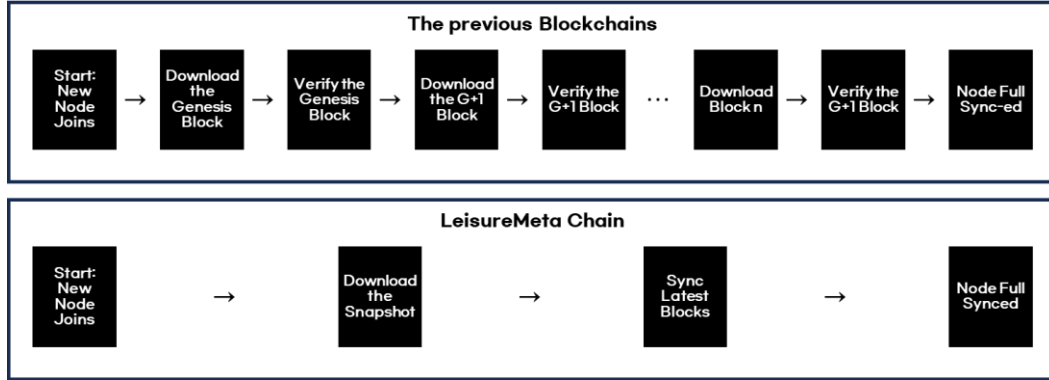
The account structure of Ethereum, unlike UTXO of Bitcoin, records the balance information of all accounts within the block in the form of a data tree. Thus, it allows the confirmation of each transfer's validity and reduction of the transaction data size in half compared to the UTXO structure of Bitcoin. Simplifying the data structure, the structure also enables programmable scripts such as Smart contracts. However, to solve the double payment problem, the transaction issuing order of all accounts must be managed in the order of nonce, which disables parallel processing of transactions. This also means that expansion of the transaction processing amount using sharding is disabled.

Although LeisureMetaverse chain utilizes the UTXO data structure as Bitcoin does, it manages by indexing the information of the UTXO held by each account address within the block, as Ethereum does ([LeisureMetaverse Chain Data Structure] Balance State Trie). This means that LeisureMetaverse Chain always holds a snapshot of the most recent state and at the same time facilitates the expansion of blockchain processing amount through sharding.



3.2.3. Single Block Verification and Fast Synchronization

By comparing the information of UTXO in the recent block and the known signature, LeisureMeta Chain may verify the efficacy of a new transaction request without synchronizing the previous blocks with the relevant transaction. Likewise, it may verify the efficacy of all new transactions in the new blocks just with the recent blocks. As a result, the LeisureMeta Chain allows immediate participation in the verification of new blocks with the new nodes synchronizing with the recent blocks only.



[Comparison of the verification procedure in LeisureMeta Chain and the previous blockchains]

Unlike those of the previous blockchains where the whole block data must be sequentially verified and downloaded starting from the genesis block, nodes of the LeisureMeta Chain do not need to download sequential block data since single block verification is possible through UTXO snapshot within the block. Even if a node in the LeisureMeta Chain goes down due to a failure, the nodes can immediately restore and participate in the network by downloading in parallel the block data from different nodes.

The sequential nature of block verification in previous blockchains can lead to longer sync times for new nodes, especially as the blockchain grows in size. The total time taken to sync and verify all blocks in the previous blockchains is

$$T = n \times (t_v + t_s)$$

where n is the total number of blocks in the blockchain, t_v is the time taken to verify a single block and t_s is the time taken to sync a single block without verification.

However, new nodes in LeisureMeta can synchronize fast through UTXO snapshot within the block and verify the recent block. The total time taken to sync and verify all blocks in LeisureMeta Chain is

$$T = t_{snap} + t_s$$

where t_{snap} is the time taken to download a snapshot of the current state. Thus, LeisureMeta Chain can reduce the time taken to sync and verify as ΔT , through the single block verification and fast synchronization.

$$\Delta T = n \times (t_v + t_s) - (t_{snap} + t_s)$$

3.2.4. Orderless Transaction

Transactions in general must be in a certain order to prevent double spending. In other words, the order of all transactions in the block-creating process must be clarified and have a verifying logic to validate if a certain order is appropriate. Ordering of the transaction within blocks requires a substantial amount of computation, causing a performance bottleneck.

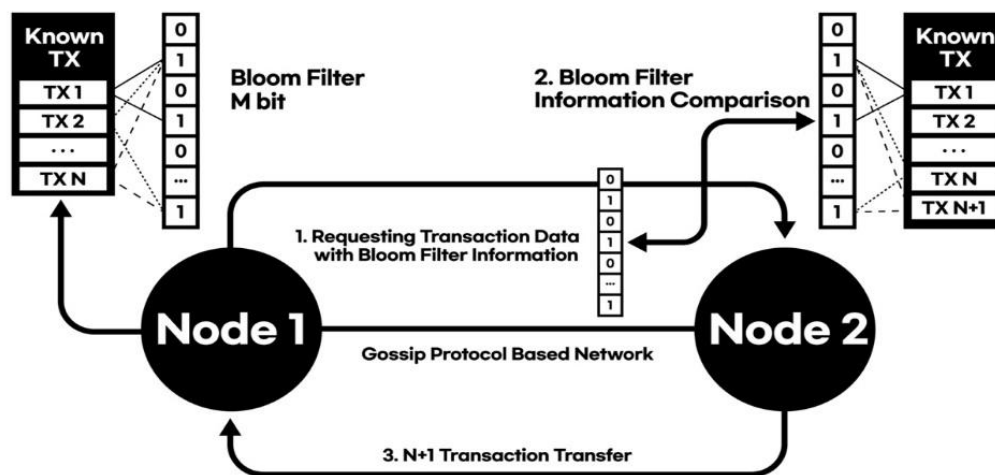
CRDT (Conflict-Free-Replicated Data Types) refers to a data structure that allows all data statuses to be equal, regardless of order, if the status variation is equal. LeisureMetaverse Chain utilized CRDT to enhance performance and reduce order between transactions within blocks. Although in such cases new transactions using certain transaction as a balance may not be created before it is recorded in a block, LeisureMeta Chain based on UTXO allows simultaneous transfer to several users with a single transaction, preventing any inconvenience or bottleneck in creating transactions. Thus, LeisureMeta Chain simplified the logic for creating and verifying blocks and established a data structure where sharding is applicable.

3.2.5. Bloom Filter-Based Data Transmission

All nodes communicate with data of new blocks and transactions it possesses to maintain recent block data and create and verify blocks. Once a new transaction request arises, the information is stored in the Memory Pool of the receiver node, and the node transmits the transaction information to other nodes. If a certain transaction from the block is missing when a block creation is proposed, the relevant transaction data will be received separately and verified for block data integrity.

Since the individual sender node has no information on whether the opposing node has the relevant transaction information, data is transferred inefficiently by the sender disclosing the transaction list and the receiver sending the list of unknown transactions according to the sender's list.

To reduce the bottleneck from the network delay, nodes of the LeisureMetaverse Chain exchange information of known transactions based on the Bloom Filter. Based on the information exchanged, each node quickly verifies unknown transactions and efficiently transmits data that are previously unknown only.

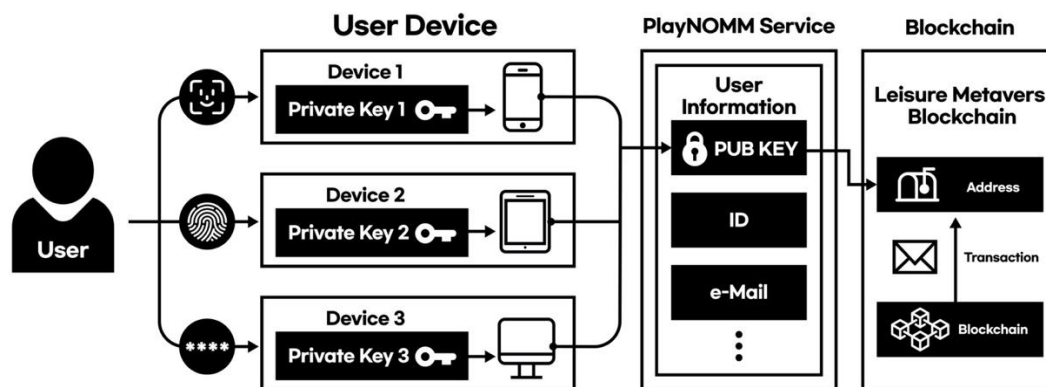


[Overview of Bloom Filter-Based Networking Process]

3.2.6. Private Key Management

Unlike the private key encryption method where a single key is used for both encryption and decryption, blockchains use the public key encryption method where different keys are each used. Here, a private key is a key known to oneself, whereas a public key is shared with others. Information encrypted with a private key may only be decrypted by the paired public key and vice versa. Since data from a blockchain, including cryptocurrency, may be easily stolen once the private key is leaked by a hack it should be safely kept.

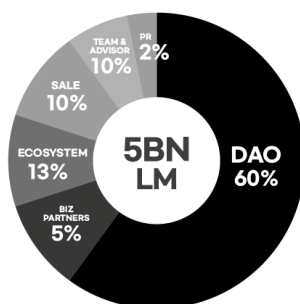
In an attempt at safe and efficient management of encrypted keys, one of the stubborn causes of blockchain usability degradation, LeisureMetaverse developed its own encrypted key securing technology. In a LeisureMeta chain, users may generate multiple private keys that are paired with a single public key. All private keys are encrypted and stored within the browsers of each device in a non-exportable form. Whenever a user needs a private key signature, the encrypted private key may be activated by entering a simple pre-set PIN code. Through the process, LeisureMeta users may safely manage their signatures without managing the private key. LeisureMetaverse holds a patent for the relevant technology (Patent No. 10-2517001).



[LeisureMeta Chain's Multiple Key Pairing System]

4. Token Distribution and Allocation

4.1. Token Information



Token Information			
Name	LeisureMeta	Standard	ERC-20
Ticker	LM	Issuance	5,000,000,000 LM
Address	0xc064F4F215B6A1E4e7F39bD8530C4dE0fC43ee9D		

4.2. Token Allocation and Vesting

LM token is distributed according to the allocation above in pursuit of 1) a safe release of the LeisureMetaverse platform, 2) establishing a well-organized LeisureMetaverse ecosystem, and 3) secured voting rights of LeisureMetaverse users. Excluding the 2% allocated for PR, 98% of the token is initially locked from transactions, which will be vested as time passes based on the date it is listed on a major exchange.

- ◆ DAO (60%): Used for DAO member rewards and the establishment of the DAO environment. On the 31st day since listing, 1.67% (1/60) will be successively released every 30 days.
- ◆ Sale (10%): Sold to purchasers for initial development and operational fund. On the day of listing, 1% will be released and 9% will be released on the 31st day since listing. Afterwards, 10% will be successively released every 30 days.
- ◆ Ecosystem (13%): Used for the operation of ecosystem and technological development. After 181 days since listing, 5% will be successively released every 30 days.
- ◆ Team & Advisor (10%): Allocated to team, founder, advisors, and more. After 181 days since listing, 5% will be successively released every 30 days.
- ◆ Biz Partner (5%): Used for current and future partnerships. After 181 days since listing, 5% will be successively released every 30 days.
- ◆ PR (2%): Used for platform activation prior to major exchange listing, and to provide transaction liquidity. All amounts will be released with the token minting.

* Lock-up and release schedule stated above may be varied or extended according to the progress status of the business or the market situation.

5. Business Goals

5.1 Goals

LeisureMetaverse aims to create and simulate the platform to maintain and enhance the value of LM tokens.

Firstly, platform will be created by setting the following goals:

- 1) Develop LeisureMetaverse Chain: Operate stable service through securing transaction finality, low gas fee, and enhanced transaction performance to overcome limitations of existing blockchains.
- 2) Develop LeisureMetaverse wallet
- 3) Establish multiple-key management system and Ethereum bridge: Support technological aspects to attract general users.
- 4) Establish Web 3.0 Creator Fandom community I LIKE LM: Provide utility and content sharing service as the main platform of LeisureMetaverse.

Secondly, the platform will be simulated with the following specific goals:

- 1) Implementation of decentralized identity (DID) within I LIKE LM
- 2) Secure sufficient active users by acquiring 100K users in I LIKE LM.
- 3) Establish and operate I LIKE LM DAO governance.

5.2 Roadmap

LeisureMetaverse will be setting standards for autonomous management through creating and simulating platforms and setting a business roadmap as below for operation:

- 2018. 1Q Develop LeisureMeta Chain
- 2019. Develop LeisureMeta Chain Wallet
- 2020. Develop and apply the NFT feature
- 2021. 3Q Organize NFT marketplace playNomm
- 2021. 4Q Develop NFT marketplace playNomm
- 2022. 1Q Implement LeisureMeta Chain multiple-key management system
- 2022. 2Q Beta launch of NFT marketplace playNomm & open NFT Creative Labs
- 2022. 3Q Official launch of NFT marketplace service playNomm and Season 1 NFT
- 2022. 4Q Official sale of Season 1 NFT in playNomm & Implement LeisureMeta-Ethereum Bridge
- 2023. 1Q Launch Creator fandom community LM NOVA
- 2023. 2Q Start development of LM Wallet & Achieve launching of three NFT seasons on playNomm
- 2023. 3Q Reach 100K LM NOVA users
- 2023. 4Q Official launch of LM Wallet
- 2024. 1Q Organize and develop the LM NOVA DAO governance system
- 2024. 2Q Develop LM NOVA DAO governance system
- 2024. 3Q Test operation of LM NOVA DAO governance system
- 2024. 4Q Apply LM NOVA DAO governance system
- 2025. 1Q
 - Deriving DAO Governance System Reference

- Conducting the 2nd Gaudi Challenge
2025. 2Q
- Enhancing Token Snapshot-Based Voting System
 - K-POP Broadcasting Schedule Linked to I LIKE LM
2025. 3Q
- Improving User-Friendly UI/UX Onboarding
 - Expanding Gaudi Asia Pacific to the Japanese Market
2025. 4Q
- Developing LeisureMetaChain Core Library and SDK
 - Building AI Companion Service Using AI Agents

6. Team & Advisor

6.1 Team Members



Sung Uk Moon
CEO

Former] Executive Advisor of Skonec Ent.
Former] CEO of Future EV
Former] Member of the Science, ICT, Broadcasting and Communication Committee at National Assembly of the Republic of Korea



Dong Cheri Han
CTO

Former] Director of Security at Rathon Tech
Former] Director of Smart Business at UNUS



Sung Sik Park
CCO

Marketing Communication Expert
Former] HSad, Daehong Communications, SK Planet
Former] Account Executive Leader at TBWA Korea



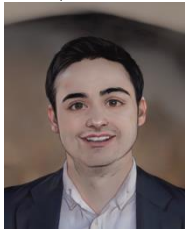
Sung Bum Bong
CRO

Former] Member of Strategic Planning Committee at Yeouido Institute
Former] Head of Central Cooperation Division at the City Government of Incheon



Yul Choi
CPO

Former] PD at SBSi Gag Station
Former] CP at Seoul Arts Culture



Alex Canals Grau
Gaudi Asia Pacific CEO

CEO of the Gaudi World Foundation
Former] Partnership Director at Depthowl Group
Former] Co-founder of Impact Farm



Heung Jin Kim
Director of Blockchain Research

Developed of iRobo Robo-Advisor
Developed O2O Mediation System at Woowa Brothers



Hee Yong Sung
WEB3 Business Lead

Developed Location Based Social Service
Developed Flying Candy, AR Based Service



Phil Joong Lee
Management Lead

Two Decades of Experience in Business Planning, Financing, and Accounting



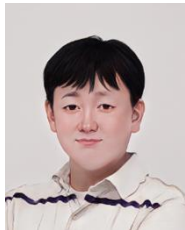
Jong Keum Kim
Security Engineer General Manager

Former] PM at BC Card Payboo Blockchain Voucher Project



Hee Chul Jeong
Data Scientist General Manager

AI/Big Data Development
Former] AI-Based Data Prediction Model
Former] Development of KT Personalized Recommendation System



Won O Na
Development General Manager

Former] Management of COVID-19 Contacts and Cloud System Development at Korea Disease Control and Prevention Agency
Former] Development of Access Automation Recording System at NH Bank
Former] Development of Smart Factory at Hanwha Aerospace



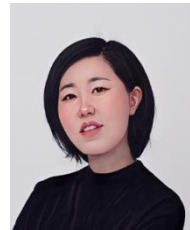
Deuk Li Kong
Technical Strategy General Manager

Former] Blockchain Service Planner at BaasStore
Former] Service Planner at Scoutchain



Kii Chang Jang
Marketing General Manager

Expert in Advertising, Exhibitions, Marketing, and Design
Creative Director



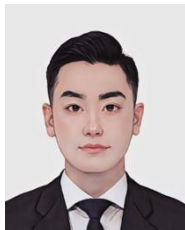
Yun Hee Han
Marketing General Manager

Expert in Advertising and Marketing
Creative Director



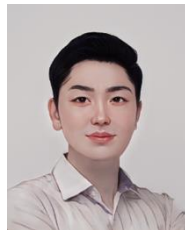
Warren Chang
Vertizon LLC Founder

Founder of Vertizon LLC
Strategy Director at Soam Biotech Research Foundation



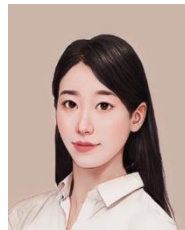
Steven Kim
Strategic Planning General Manager

Blockchain Strategic Planning Specialist
Ph.D. in Business Administration



James Hwang
Strategic Development General Manager

New Business Planning and Development Specialist
Former] New Business Planning and Execution at Hyundai Home Shopping



Je Jung Park
WEB3 Business General Manager

Art Consultant at Seoul Auction by Print Bakery
Author of "A New Way to Own Art: The Future of Art and Content through NFTs"



Geun Hwan Kim
Blockchain Developer

Blockchain Core Development
Former] Mainnet Development at Saseul
Former] Disaster management system development at KHNP



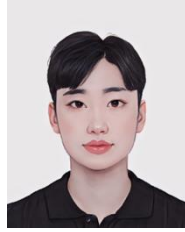
Seong Pil Bae
Blockchain Developer

Blockchain Development
Former| Ethereum Hardfork
Development



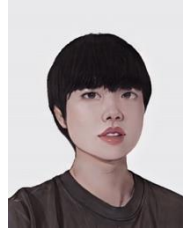
Giggs Lee
Strategic Development

Marketing Strategy Expert
Community Building Expert



Tae Yong Choi
Digital Asset Strategy

Blockchain Strategic Planning Expert
Former| Listing Team at COREDAX
Exchange
Former| Founder of Blockpartners



Kay Suh
**WEB3 Business
Development**

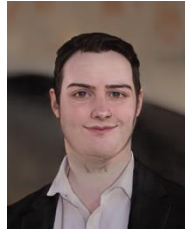
Blockchain Strategic Planning Expert
Blockchain Project Consultant
Planned and Managed Multiple PFP
Projects

6.2 Advisors



Abdul Hamid M. Juma
**Former UAE Govt.
Official**

Former| Chairman of Dubai
International Film Festival
Former| Deputy Director General
of Dubai Creative Clusters
Authority
Former| CEO of Dubai Media City



Lucas Martinez

Head of Operations at Gaudi World Foundation
Former| Customer Success Manager for big
account in Dynatrace
Former| Customer Success Manager for
Spanish and French market in Signatuit



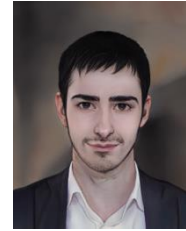
Eduardo Pintor Cuevas

Head of Marketing at Gaudi World Foundation
Former| COO at Depthowl
Former| CMO & PO IMA



Sofya Abramchuk

Head of Design and Product at Gaudi World
Foundation
Former| Founder and Creative Director at BUO
Design Studio
Former| Product Launch Manager at JUNO
House



Atonio Martinez

Head of Global Strategy at Gaudi World
Foundation
Former| Founder of Depthowl Group
Former| Financial Advisor for Private Equity
investors



David Tamayo

Head of Finance at Gaudi World Foundation
Former| Financial Advisor for Private Equity
investors
Former| Founder of Depthowl Group



Jimmy Cha

Chairman of Casino International
Group
Former the Head of the Korea
Go Players Association
Former Managing Director of
Korea Tourism Org.
Champion of Amarillo Slim's
Superbowl of Poker



Hyun Ki Baek

Former| Chief Editor at The
Hankyoreh
Founder of The Hankyoreh
Newspaper



Min Ki Kim

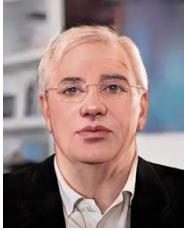
Former| Advisor of the Korea
Communications Standards
Commission



Guh Jong Lee

Former| Director of Video Production
at Korean Broadcasting System

6.3 Technical Advisors



John Wainwright
 CTO of Mirinae, Inc
 Former CTO of Kollektive
 Technology
 Former] Consultant at Autodesk
 Former] Chief Architect at Kaleida
 Labs
 Principal Architect for Script X &
 MaxScript Language



Keun Ho Rew
 Professor at Hoseo University
 Former] Chairman of
 International Robot Olympiad
 Organizing Committee
 2017 Minister of Trade, Industry and
 Energy Award Winner



Joaquim Porte
 Head of Technology at Gaudi World Foundation
 Former] Senior Software Engineer at a consulting
 business and project manager
 Former] Project Director at the Research
 Department of LaSalle Ramon Llull

6.4 Creative Advisors



Sang Gyu Han
 CEO of WithComTogether
 Former] CEO of ComTogether
 Former] CEO of Kilimanjaro CM
 Production
 Former] Creative Director at
 Hanin Planning
 Former] Copywriter at Cheil
 Worldwide



Chul Jung
 Copywriter, Writer, Visiting Professor
 at Dankook University
 Author of numerous copywriting
 works including 'People Come First'
 and 'Make the Country Like a
 Country'
 Author of multiple books including
 "How to Use My Brain," "Copywriting
 Book," "Human Dictionary," and "Idle
 Thoughts at Every Opportunity"



Soo Hyun Hong
 Executive Producer at The Moon Entertainment
 Present] Adjunct Professor in the Department of
 Media Communication at Soonchunhyang
 University
 Present] CEO of CON MEDIA



Soon Jong Ock
 Adjunct Professor in the Department
 of Communication, Yonsei University
 Present] Director at the Korea Public
 Diplomacy Association
 Present] Editorial Board Member at
 the Korean Ginseng Society
 Former] Head of Public Relations at
 Korea Ginseng Corporation



Jong Woo Park
 CEO of Production Indivision
 Former] Journalist in the Sports and
 Leisure Department at The Korea
 Times
 Documentary Photographer
 CEO of Outdoor Korea
 Produced 20 TV Documentaries
 Recipient of the 18th Donggang
 International Photo Festival Award



Jong Ok Seo
 Travel Writer, Drama Writer
 Former] Writer for MBC's "Radio Era"
 Member of the Korea TV & Radio
 Writers Association, Screenwriter
 Winner of the 2000 KBS Drama
 Competition

6.5 Legal Advisors



Yoo Sik Jang

Managing Attorney at Dong-Seo-Nam-Buk Law Firm, Northern Branch
Policy Advisory Committee
Member at People's Solidarity for Participatory Democracy
Public Relations Secretary at the National Intelligence Service Reform Committee
Former] Chair of the Public Interest Litigation Committee at Lawyers for a Democratic Society



Jae Yoon Kim

Certified Public Accountant
Deputy Representative at Samil PwC

7. Partners



M.C.Partners.

