



# WHITE PAPER

Language: English | Version 2.0

The date of publication

12.20.2020(ver.0.5)

Update history

06.07.2021(ver.1.0)

08.31.2021(ver.1.5)

01.10.2022(ver.2.0)

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Meetple Whitepaper  
Language: Korean | Version 2.0

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## Summary

### Market size and marketability of video chat service

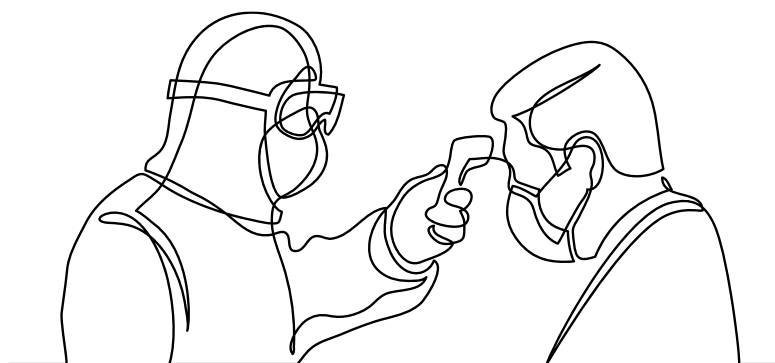
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Due to the intensive transmission and contagiousness of COVID-19 (Coronavirus), the international economic markets have been paralyzed in such a short period from 2019. And they have turned into a different aspect. The spread of a highly contagious and lethal epidemic has limited the viability of most countries and the movement of their citizens. There were no significant changes even after the vaccine distribution; the economic damage caused by COVID-19 seemed impossible to recover. The spread of COVID-19 did not stop as time passed, and this brought changes in businesses, workers, and their overall lives. International exchanges not only have been halted, but offline meetings have also become impossible due to restrictions from the government within the country. People are trying to communicate in new methods. For example, offices, public institutions, and public facilities have strengthened online services to implement administrative processing. Restrictions in offline activities stimulated the online market economy, naturally increased the demand for distribution, and secured the distribution base. Like shipping companies, e-commerce, and payment culture spread, the existing financial services started transforming the system to a non-face-to-face non-contact method. As the supply of disposable items to prevent the spread of COVID-19, such as masks and wet wipes, has become indispensable, ESG management has emerged as the 4th industrial revolution. Prevention of environmental pollution and sustainable management have become the core issues of corporate operation.

Companies are developing an "ontact (online + non-contact)" work environment. In addition to continuing their work using virtual space and metaverse, in 2021, companies started hiring again using video chat services and virtual space through online platforms. Industries related to non-contact have developed in this process, and market demand has increased exponentially. The video conference and video chat service industry has exceeded over \$15 billion in 2020 and is expected to show a compound annual growth rate of approximately 23% between 2021 and 2027.

Human life pattern in this post-coronavirus era has changed; more than 400 million people said they have access to various video chat platforms every day. The households have been reborn as a different space than before. It has transformed into a space to spend most of the time of the day as well as a safe base that provides a place for online communication. People began to communicate with their family and acquaintances and obtain data through online content. The game industry also has developed and created various games using blockchain and virtual assets to follow this trend. The MZ generation has naturally embraced establishing relationships through social dating apps and online platforms. As a result, various techniques are developed for those platforms and come into the spotlight: framing, resolution upscaling, virtual space background diversification, acoustic fencing, active noise cancellation, and recognition protocols through the advancement of AI, real-time translation for human convenience along with facial recognition, and automatic programs.



Since the pandemic era has come, the video platform and related services have opened a new gateway, and Meetple stepped forward to this industry. Meetple is a blockchain-based video chat service application that has achieved over one million downloads. We have solved the issues in other video chat service apps had under an efficient and stable driving system. It is highly praised for improving users' trust by enhancing the insufficient protection of personal data. Meetple aims to form a new concept of the service network.

Meetple operates on trusted data based on using a blockchain-based public ledger protocol. It gives users trust, and users can use stable video content anywhere based on WebRTC (Web Real-Time Communication) without any restrictions on using the service. Furthermore, Meetple does not just provide video chat content. It does not only connects individual-to-individual meetings, but it can also play a role in brokering services between individuals and businesses, as well as B2B (Business to Business). Meetple aims to develop high security to be used in public institutions too.

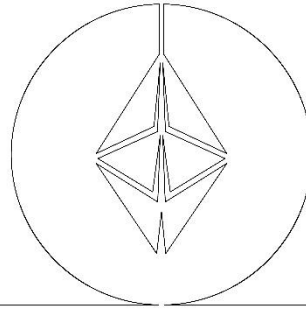
Users can share digitized creations in the Meetple platform, and they will be able to exchange and distribute content with exclusive copyrights such as NFTs. As an open platform, Meetple will induce participation from all industries related to communications and enable fair token reward distribution according to the ecosystem participants' contribution.

Meetple plans to provide services in 24 major countries with video communication distribution, stable platform construction and infrastructure. Meetple aims to provide an opportunity for people to participate in the video chat service ecosystem. During this process, the users who are limited to the service due to the variable according to their network environment and the trust issue in unique transactions are tasks that Meetple will continuously improve.

# Introduction

## Blockchain Problems and Solutions

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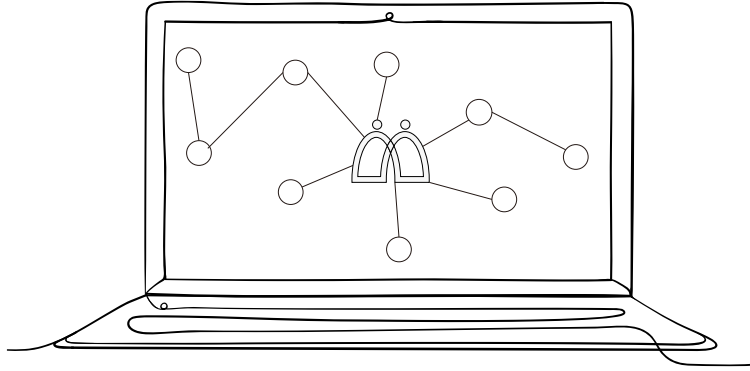
Ethereum (ETH), developed by Vitalik Buterin, is currently the protocol basis for numerous blockchain tokens. There are several standard such as ERC-20, ERC-165, ERC-223, ERC-621, ERC-721, ERC-827, and ERC-884, but the standard that serves as the basis for the most users is ERC-20(Ethereum Request for Comment-20).

ERC-20 has great flexibility, so it can be applied to various applications and platforms. However, it's hard to expand the network, so loading and delays may occur during token remittance as there are more transactions. In addition, high fees bring more burden of using transactions. To solve this problem. Ethereum is processing the version 2.0 update starting with London Hardfork, but it seems it will take more time to upgrade all networks and the mainnet.

'Layer 2' has emerged as an ecosystem expansion solution to improve the remittance fee and transaction speed of Ethereum. Layer 2 can enable faster transactions with a cheaper fee, leaving the network where the load occurs, so the existing ERC-20 based tokens are trying to expand through Layer 2..

### Problems in Smart Contract

However, Layer 2 cannot fully support tokens issued through the existing Smart Contract. To use Layer 2, granting permissions or functions and related functional codes should be contained in the Smart Contract. Therefore, as for tokens that have already been issued, they need to reissue the Smart Contract to use Layer 2. Reissuing tokens for Layer 2 can give an enormous burden when they are already listed on an exchange and being traded in blockchain tokens or when a project is already actively transacting. Because tokens either have to relist on the exchange or swap all existing tokens users' owned to new tokens. Although this solution was to supplement the current issues, not all projects can meet all terms of Layer 2's Smart Contract.



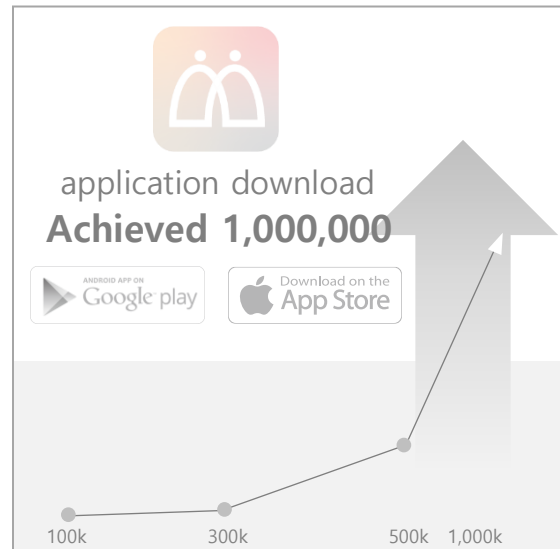
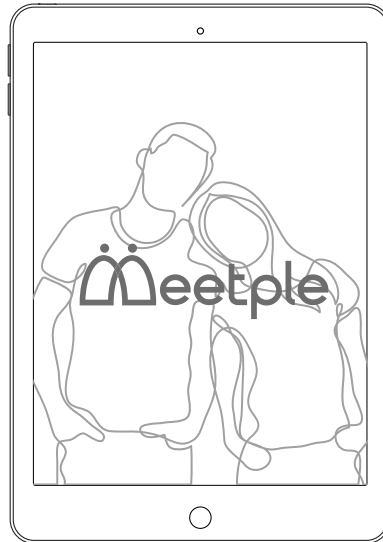
## Direction

To solve these issues, MPT Token is developing a multi-chain that can interact with ERC-20 based MPT Token by issuing blockchain Smart Contract based on various mainnet. The purpose of 'Meetple Multi-Chain Project' is to allow users to swap MPT Token to other tokens from other blockchain mainnets and to use the optimal blockchain service and transactions depends on their situations and conditions. Meetple Platform equipped with MPT Token will create an environment to actively use MPT Tokens through continuous updates and development. The platform will not be limited to one platform or business project, but will develop and expand the services and platforms that users need at the time.

## About

### Possibilities and Goals of meetple

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Meetple is a blockchain-based video chat service app that has achieved over one million downloads. It has solved the existing problems of other video chat service apps under an efficient and stable running system. It has received high reviews for improving the insufficient private protection and gained users' trust. Meetple aims to form a new concept of the service network.

Meetple operates on trusted data based on using a blockchain-based public ledger protocol. It gives users trust, and users can use stable video content anywhere based on WebRTC (Web Real-Time Communication) without any restrictions on using the service. Furthermore, Meetple does not just provide video chat content. It does not only connects individual-to-individual meetings, but it can also play a role in brokering services between individuals and businesses, as well as B2B (Business to Business). Meetple aims to develop high security to be used in public institutions too.

### Missions

Users can share digitized creations in the Meetple platform, and they will be able to exchange and distribute content with exclusive copyrights such as NFTs. As an open platform, Meetple will induce participation from all industries related to communications and enable fair token reward distribution according to the ecosystem participants' contribution.

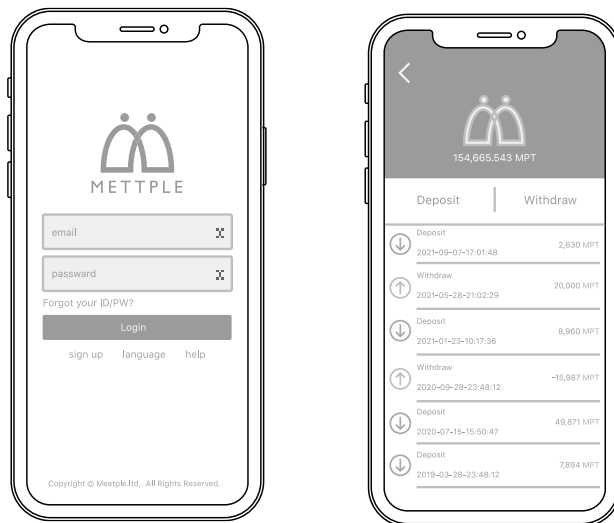
#### 3-1. Introduce of MPT

MeetPle(MTP) is a utility coin based on Ethereum ERC-20, pursuing a blockchain project that meets flexibility and scalability. To solve the scalability issues on the existing ERC-20 and the disadvantages of Layer 2 conversion, it applied the concept of utilizing the multi-chain to secure broader scalability. This brought the effect of allowing users to selectively use the optimal chain.

The MPT Token users can search and use the mainnet or framework with the optimal efficiency from real-time fluctuations in blockchain fees and network transaction delays. It enables fast transactions with low charges. If any problem occurs with the mainnet on a specific blockchain, it can bypass that blockchain and take action, so the concept of network multiplexing can be applied.

The MPT Token is used for the MeetPle platform, and it expands and grows with the platform. It can be used as a virtual currency payment that replaces the real currency within the MeetPle Platform. It can also be used as a payment method in utilizing events or replacing the real currency in the actual service of the companies that have business partnerships with the MeetPle Company. In the future, it plans to develop the blockchain project by planning various services and continuous connections within the society through consultation with each partner and enhancing the utility and value of the actual MPT Token.

### 3-2. Introduce of MPT Wallet

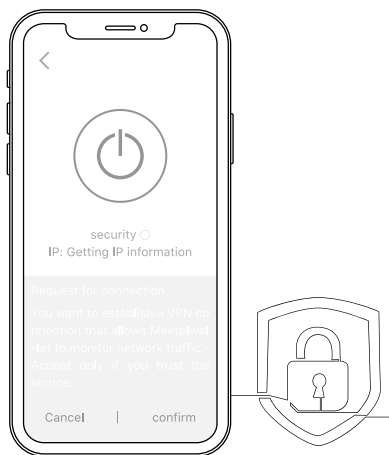


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MeetPle Wallet is designed with convenient UI/UX for anyone to use. Within the wallet application, the blockchain user can make deposits and withdrawals and check statistics and total data of assets held at a glance.

Users can keep the MPT Token that was purchased in the exchange or obtained in the MeetPle platform safe, and MPT, a key currency in the wallet, can swap with all multi-chains that MeetPle will support. The multi-chain project tokens are also dedicated wallets designed to enable remittance. A simple verification logic is installed to avoid making wrong deposits caused by users' carelessness when transferring money from the wallet to the outside and prevent one-dimensional damages.





(Images may differ depending on the update status.)

'MeetPle PNS (Private Network Server)' function is installed in the Meetple Wallet. MeetPle PNS is designed to prevent leaking personal information due to hacking attacks and enable secure service use for blockchain users when moving tokens through encrypted communication. Users will run the PNG function in the wallet to ensure an encrypted network. The network encrypted with PNS uses a dedicated encrypted network to maintain the security, such as from MITM (Man in the Middle Attack). Even if a network hacker uses advanced attack technology and attempts an SSL Strip attack that hijacks HTTPS/SSL, which is a standard encryption communication method and technology, users' all networks will be encrypted, maintaining the security and being free from network packet eavesdropping. When a user communicates with SSL Protocol, the network changes to encrypted TLS Protocol instead of HTTPS/SSL network, making the attacker unable to perform an SSL Strip attack.

In the future, MeetPle Wallet will not be used only as a wallet but will update and provide various services to users that will provide a variety of services that can create value by planning the evolving blockchain technology and the necessary functions that the users use.

### 3-3. Introduce of MeetPle Application

The world is currently facing a non-contact society due to COVID-19 pandemic. As offline activities changed to online, our life is also changing. MeetPle, the world's first video chat application combined with blockchain, is a platform where you can meet everyone in the world without borders with a simple swipe.

can connect and communicate with the stable and advanced features of MeePle video chat, and furthermore, the app built a platform to create new opportunities. Users can continue communication between matched users through messengers along with the app's basics video chat function. And they can show their daily life through the photo sharing function, such as 'vlog' concept in the existing SNS.

MeetPle is equipped with a function that helps to find nearby users. You can use the service by simply waving your phone up and down after accessing that certain menu, and this can match with a person near the user by simply waving up and down based on Mobile GPS; this can create an opportunity to connect with neighbors.



### Video chat service

Users can communicate with many users around the world using video calls. Unlike existing video calls, MeetPle's video calls provide fun and accessibility through an unspecified algorithm matching connection between service users.

### Condition matching

MeetPle is a platform that supports global connecting services. Users can find their match by selecting the conditions they want to search, such as countries, regions, and gender. Users can use the service faster if they choose their options from the beginning.

### Find Neighbors

Users can find MeetPle service users in their vicinity and communicate with them. This can play an essential role in sharing each other's daily life and maintaining the community in a society where communication is cut off even with a close neighbor due to COVID-19.

### Chat

Users can communicate with real-time texting through the message function to users who have been added as friends by accepting mutual requests. If users are in a difficult environment to make video calls, users can communicate conveniently by simply using messenger functions.

### Friends

Users can keep in touch with the valuable match while using MeetPle's services, such as video chat and finding neighbors. It's easy to have daily conversations and share issues anytime, anywhere by making friends through using adding friends function.

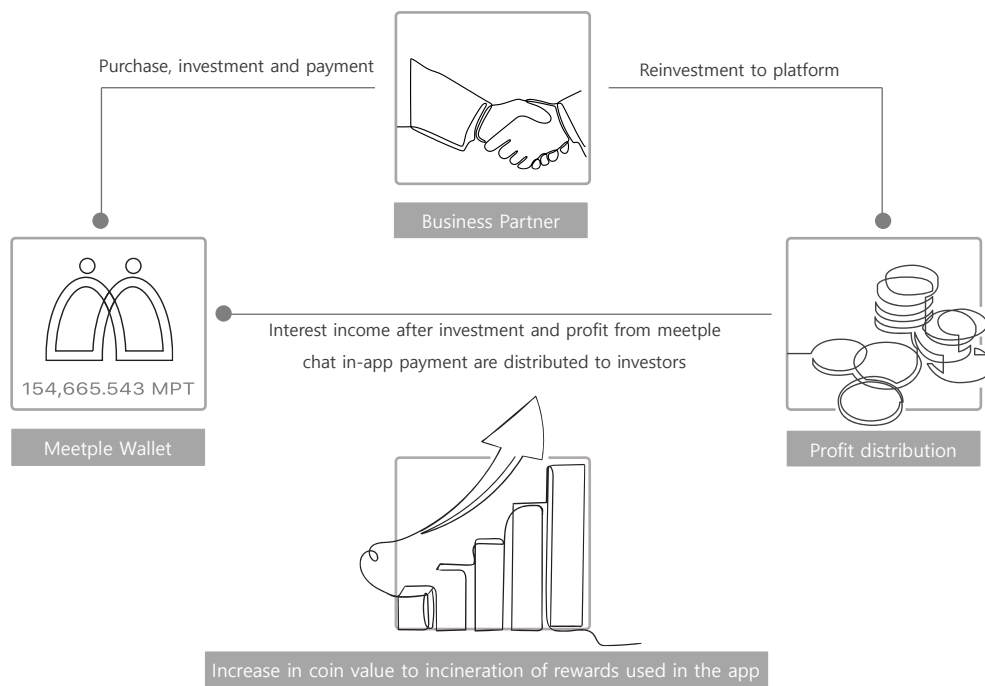
### Vlog

Users can share their photos in the MeetPle app if they allow permission to their photo album. Users can build their timelines and record their daily life beyond the existing chat platforms with simple text and video calls. Storytelling with this simple method helps MeetPle users to express realistic and concrete expressions.

# Business Flow

## Detailed Meetple Ecosystem

### 4-1. Ecosystem of MeetPle



The MeetPle ecosystem is the world's first video chat-based platform equipped with a blockchain. Aiming to become the center of online communication that leads people around the world to communicate with each other, it has various features for effective communication. To differentiate it from other existing text and video chat applications, we have established a plan to expand the ecosystem with MPT Coins used in non-contact businesses. It creates an environment where users can purchase products and experience services by using various online services: social media, entertainment, online broadcasting, and e-commerce. The value of the MeetPle project and MPT Coin will continue to increase as the number of users and services of the MeetPle platform expand.

The sales and circulation of MPT Coins increase are proportion to the expansion of service and the increase rate in users. The trends of the world can be configured by collecting internal data while users use the service as big data. Also, market fluctuations and consumer needs can be predicted, enabling efficient market operation and revitalization of the market. MeetPle plans to build a more active market and ecosystem as the community and business expand. The expectations of global video chat platform users are simple and obvious. We want to make sure all MeetPle users in the world easily share their daily life and communicate smoothly. MeetPle is a blockchain-based global video chat platform designed to solve the unfair profit structural issues according to users' needs and form a virtuous cycle between participants and users.

MPT Coin is used as a transaction between participants or payment within the MeetPle ecosystem. Users can utilize MPT Coin using the P2P service in the MeetPle platform. They can use paid services, purchase various products on the platform, or receive rewards according to coin usage contribution. Blockchain is a decentralized public ledger and has anonymized addresses. In an environment that stores distributed data connected in a chain form, once stored data cannot be arbitrarily modified, and anyone can view the change if it is changed.

MeetPle aims to realize transparent and fair profit distribution based on the idea of the basic protocol of the blockchain. Introducing blockchain technology into a global video call platform can be seen as the first step towards it. The value occurring through the blockchain technology in the MeetPle ecosystem will be distributed to participants; the ecosystem will become a blockchain-based value distributed community in which all users of the MeetPle platform become investors.

## 4-2. Ecosystem of Users

Meetple platform is continuously researching and developing the continuous cycle, so there are no errors in the continuity of the ecosystem. There are several developed programs; MPT, Meetple Wallet, EX, Staking, Swap, MPT MALL, and Meetple dating chat service. In addition, we will build a sustainable system by inducing the users' participation rather than participating through the Meetple Foundation. We aim to create an intensive sustainable platform without their intervention in the foundation that is a cycle structure that can consume user-generated content.

### Staking

Meetple participants can lock a certain amount of MPT into MPT Staking. Locking MPT recognizes as making a substantial contribution to the Meetple network operation, and they can receive APY rewards flexibly according to supply and demand. When it's in the lock-up state, participants can check the amount of MPT according to the APY display in real-time. Unstaking can take up to 168 hours (7 days). The speed may vary depending on the network conditions during unstaking.

Also, this time-consuming strengthens the security of MPT stored in users' wallets paradoxically. Because unstaking takes about 168 hours (7 days), safety can be guaranteed under the control of users and Meetple developers, even if someone tries to steal the MPT.

Users can do unstaking (withdraw) anytime. The type of staking is not limited to one category, MPT, but plan to expand the supported cryptocurrencies such as BTC, ETH, and XRP. Technical cooperation with the staking platform and interworking of the platform will be updated continuously to operate MPT's staking with better stability.

### Swap

Meetple participants can swap MPT as tokens within the Meetple platform. Swap in MPT carries two meanings. The first is an exchange according to a simple real-time price, and the second is a token exchange from MPT(A) to MPT(B). Token swaps operate in a sophisticated form. It is designed to minimize the risks during the intermediate refund process, such as disparity rate and token quantity difference. The MPT swap is also expected to play a major role in preventing token loss in the future.

### 4-3. Token Economy

MPT Coin is available in any countries that uses the Meetple platform. MPT Coin is available to use in the dedicated wallet or in or outside of video chat app after purchasing the coins in the exchange. When coins are transferred from the Meetple Wallet or the exchange directly to Meetple app, they will be automatically converted into MPT coins.

Users can use the converted MPT points like cash within the platform that supports Meetple. This means that the MPT coin supported by the Meetple platform can also serve as a public currency used anywhere in the world. Meetple plans to develop MPT coin with more powerful features with convenience and value that cannot be replaced through continuous updates and development.

#### ■ MeetpleWallet

1) Check the market price: Users who own MPT coins wonder about the price and market trend of their coins. Meetple Wallet is automatically linked to the exchange API, so users can check the current price of their MPT token in real-time without accessing the exchange.

2) PNS: In Meetple Wallet, users can use the 'Private Network Server (PNS)' specialized in security for free by holding a certain amount of MPT coins in their wallet. They can receive different management for 'hacking and asset protection,' which has always been on the rise whenever a wallet containing other coins was hacked.

#### ■ Meetple Chat

1) Purchase jewels: Users can deposit their MPT coins to Meetple Chat app, a blockchain-based video chat application, and deposited MPT coins can be exchanged for 'jewels' that are used as an in-app payment method according to the real-time market price. Users can purchase jewels through MPT coin without using the in-app payment system to use various paid services.

2) Rewards: Users can receive additional MPT points when they make in-app payment within the Meetple Chat app. MPT points are given to users as a reward through participating various events, such as new sign-up, attendance check, and friend recommendation. Users can use various functions and paid services such as gender selection and country selection during random video call matching.

3) Automatic consume system: MPT coins distributed as marketing and rewards are automatically consumed within the Meetple Chat app. As Meetple platform is activated, the total issuance of MPT coins continues to decrease, which has the effect of increasing the value of MPT coins.

#### ■ Staking

You can deposit any amount of MPT coins using the Meetple staking system. This contributes to the Meetple ecosystem, and users can be rewarded with daily interest based on the annual interest rate, even if you design MPT coins for just one day. Also, when the set delegation period ends as MPT coins are staked, the reward interest is automatically deposited to the dedicated Meetple Wallet.

- MPT mall

Users can also purchase daily supplies not related to chatting through 'MPT Mall, an e-commerce website dedicated to MPT. This means that Meetple can be used in all aspects of life, not just in the chat. Users can purchase various products with converted MPT coins from their wallets into stable MPT points. Also, part of the payment amount can be paid in MPT coins, and the remaining amount can be paid in cash. Users can purchase necessary daily products using MPT coins, which can be seen as a combination of a blockchain-based video chat app and social commerce.

#### 4-4. Business Expansion Plan

Meetple has included the non-fungible token (NFT) and metaverse, which are closely related to the existing platform in the ecosystem expansion plan for scalability. The necessity for social distancing is emerging, and lifestyle is changing as a non-contact. This is a global topic. In particular, NFT will be used for almost all creations and content that can claim their rights and in any works to support the value of digital content creations on metaverse.

Metaverse is often confused with existing virtual platforms or misunderstood. Metaverse has five characteristics that differentiate from other development contents called '5Cs': a world perspective, creator, digital currency, daily life extension, and extension of double impression. Digital currency is completing the connection to the existing financial system and has already become generalized through the penetration of the Internet, the popularization of smartphones, and electronic finance. If world perspective and creator options are added to the above three conditions, the platform will be able to meet the standards of the metaverse. Meetple will include a structure that can activate a multi-party community in the virtual world rather than connecting users.

##### **NFT**

A non-Fungible Token refers to a cryptocurrency that cannot replace one token with another token and tamper with. It is written as 'NFT' as a popular abbreviation; NFT is a token with its own unique value and uses indefinitely in copyright, culture and art industries, and information distribution and industries.

##### **Metaverse**

It is a compound word of 'beyond,' 'meta' meaning imaginary, and 'universe,' meaning the world. The name 'metaverse' is originated from the name of the virtual world in the novel 'Snow Crash' by Neal Stephenson. The summary of the book is about extending reality into the digital world. Simply put, it is a system that enables political, economic, social, and cultural activities in the virtual world. There are sub-concepts such as virtual reality and augmented reality.

##### **Utilize in the platform**

Users can create 'user-generated content' when using the platform within the Meetple app. First, user can upload their creative digital content to the profile page within the app, just like in existing social media platforms. Users can exchange uploaded content into NFT and share it for free or charge them. This contributes to adding more fluidity to the rights on the content for a creator, which is a user.

##### **User-generated content**

User-generated content is divided into three categories. Editors provide add-ons that recognize faces

during video chatting in the Meetple app and change them into various characters. Users can auction their digital creations (artwork, portrait rights, videos, and information) or sell them at a fixed price and watch videos provided by creators who provide content through the auction. Also, when advertising revenue is generated through sharing purchased NFT, users and creators can divide it and acquire them. Users can make a profit by consuming content even if they do not provide creative digital content.

### **Video chat**

The metaverse content on the Meetple platform will be divided into three categories: virtual reality, augmented reality, and social network services. Various information and communities that users provide to Meetple and a private community, which create another communication method, will be implemented. Virtual reality with a vast amount of data will be established as if it's close to the real world. For example, users can feel like traveling abroad with a friend during their video chatting. Users can travel from Paris to the Bermuda Triangle instantly. This is a cross-technology of virtual reality and augmented reality; it can realize the different worlds in the real world.

As consumers' cultural life is paralyzed, they can no longer enjoy K-Culture and the Korean wave. As a result, Meetple implements a metaverse space that allows users to watch the singers' performances with a large fan base at home and helps deepen their cultural bonds by providing opportunities with friends in other places. The metaverse in Meetple will have a broad change to the platform, and the community and influence of the platform will become stronger.

### **Using NFT in the metaverse**

The virtual world in Meetple's video chat uses blockchain and NFT to support users and creators. Users can provide flexible services within the metaverse platform with an automated system. NFT has inherent value and provides an environment for trading.

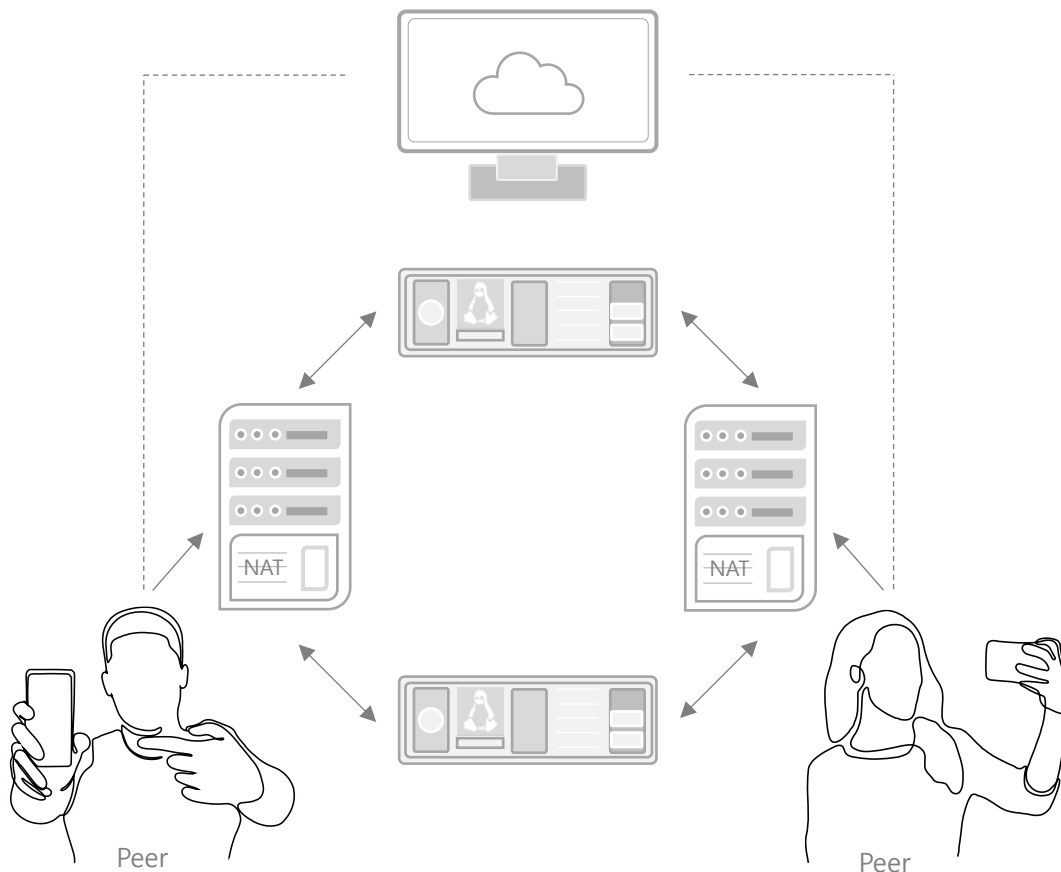
### **Digital creation ownership**

Even if Meetple's video chat service terminates, users have permanent ownership of the services provided by Meetple. Meetple is collaborating with various blockchain companies for scalability and safety. Therefore, users can trade and transfer, and the community will not be terminated forcibly.

# Technical Element

## Meetple's various techniques

### 5-1. WebRTC



MeetPle’s video call called WebRTC has its service infrastructure in the Amazon Web Services (AWS) cloud. The servers such as Signal Server, STUN/TURN Server, and Main Server have been developed; thus, they can be applied to applications and back-ends by adding our own network communication rules to the existing network configuration infrastructure. It has been updated to enable more efficient communication than using the existing framework.

Personal users communicate in a global service environment when using Meetple, and Socket communication is also used in WebRTC. If the communication boundary in any country transfers to the global network rather than internal, the latency between networks may occur beyond the unit of seconds. A well-designed framework or solution may inevitably have bugs during user-to-user matching or network. Meetple improves the service by identifying the network communication latency on each user in the service environment of the platform. We tried to solve the WebRTC matching bug that may occur due to network latency by designing peer-to-peer matching within the platform with the most optimal route. Meetple applies its own technology to provide a higher level



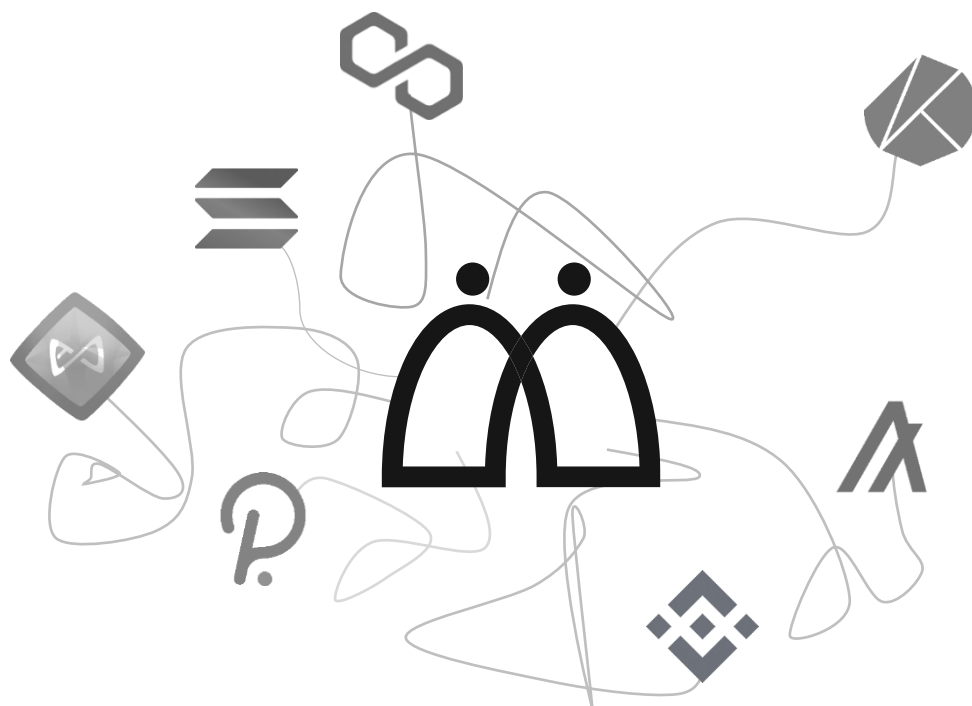
of service to the user, rather than relying solely on the existing WebRTC library or framework.

### 5-2. Multi Chain

MPT Token is based on various mainnets that are recognized as blockchain projects to escape from the disadvantages of existing Ethereum and the environment where Layer 2 is impossible to be used. Here, MPT's Smart Contract will be additionally issued, and issue and develop the side MPT token from various solutions in Layer 2 to facilitate large-scale interaction with ERC-20 based MRT Tokens.

Typically, many project tokens, including the existing ERC-20 based MPT Token, are not capable of Layer 2 in the following cases. In the code of the Smart Contract required for issuance Polygon-Matic token, which has been established as one of the Layer 2 framework, when the authority of ERC PredicateProxy for Layer 2 is dependent only on the administrator, it's becomes impossible on blockchain control in mutual Smart Contract. The Layer 2 concept itself becomes unusable. In the case of an existing Ethereum-based blockchain project that did not consider Layer 2 from the beginning of the project, it requires rewriting Smart Contract and reissuing the token as mentioned above. The authorization required to use Polygon Layer 2 is not defined as an external authority even in the code writing framework for issuing widely used ERC-20 Smart Contract, and reissuance may occur.

- Multi Chain

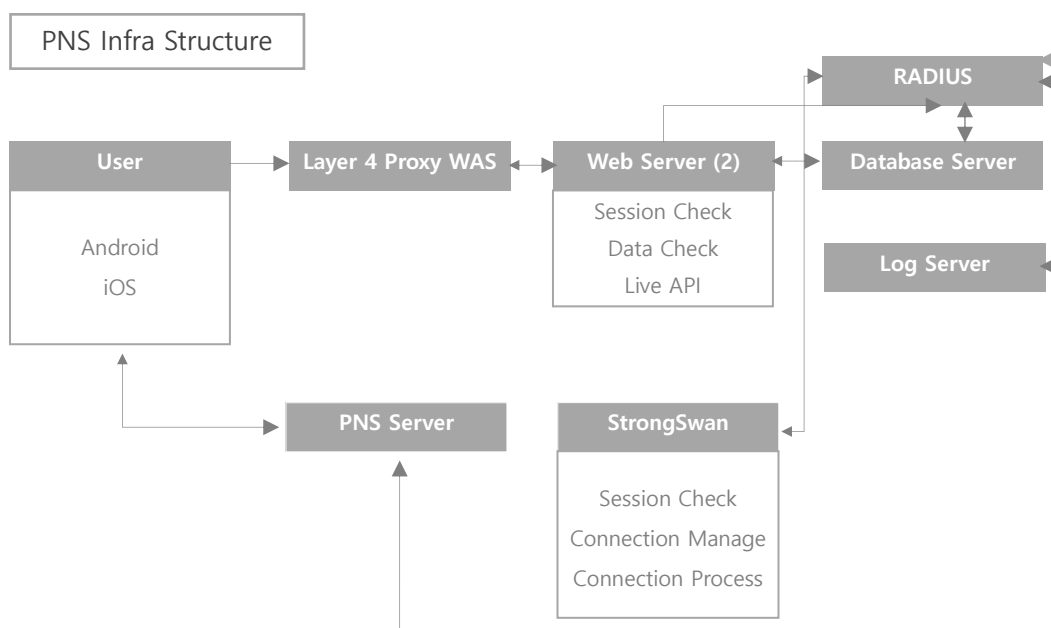


Meetple will issue MPT Tokens from many mainnets and frameworks to prevent and respond to problems that may arise by relying on a single blockchain base and operating it as a multi-chain integrated into the Meetple platform back-end. As of the 4th quarter of 2021, MPT Token, Meetple's first multi-chain, was issued based on Ground X's Klaytn mainnet, and it is applied to the MeetPle service. In 2022, we will continue to develop MPT Tokens on blockchain mainnets or frameworks such as Solana, Polygon, Algorand, and Binance.

### 5-3. PNS

MeetPle SNS (Private Network Server) is a feature of MeetPle Wallet that supports strong encrypted communication. PNS is a function that MeetPle developed and installed in the mobile application. The core of PNS is to encrypt a general Internet line and user it as a private line.

For MeetPle platform users, they can use the service with a click of a button in the PNS menu without any additional settings or secondary operations using Radius authentication within the service without additional registration. Meetple has undergone development environment testing and overseas connection testing for many years to enable service operation in various environments. The application and overall service have undergone continuous functional enhancement to provide excellent access and service stability. The part where network is unavailable due to not known or unknown reasons was solved by customizing the PNS server environment and processing additional self-developed network requests.



After TrongSwan's IPv6 Protocol communication bug and server OS configuration development, the PNS service of MeetPle Wallet can be used anywhere in the world. Also, by using the tunneling network connection function, one of our own developed technologies, users can select the desired application network to support direct network access. Other than that, we have established a service to enable smooth network activities of users by avoiding unnecessary use of dedicated networks through routing.

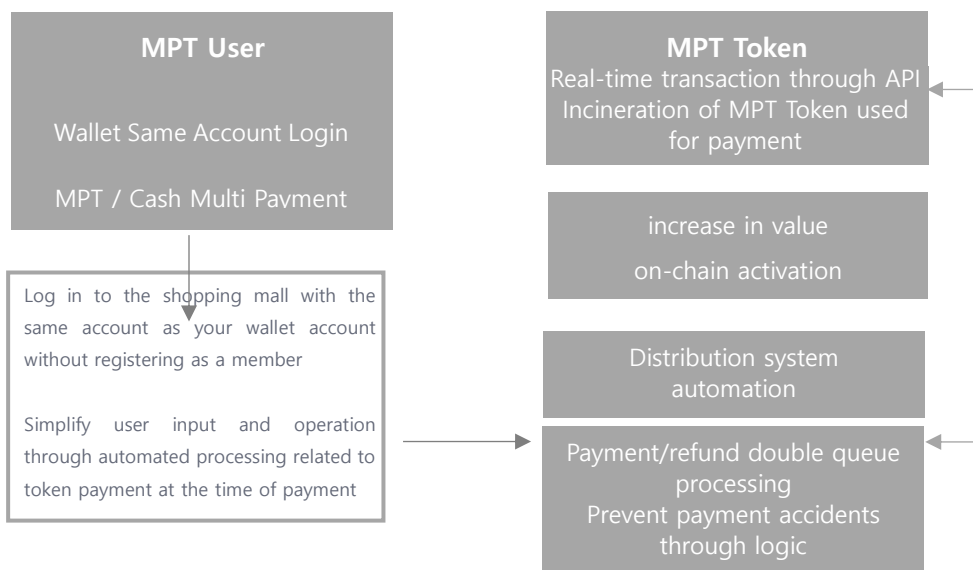
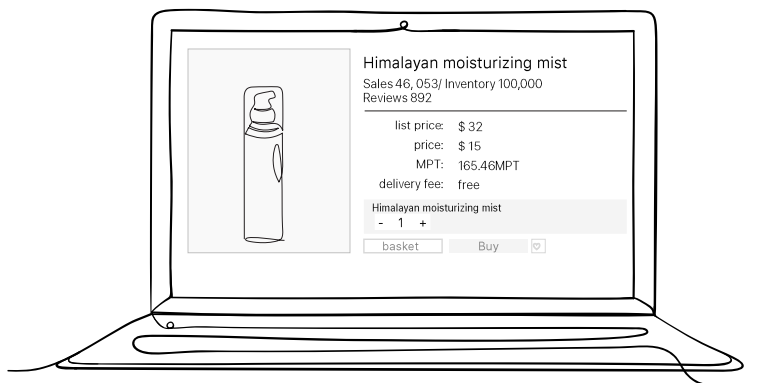
Users connect through the authentication process of the PNS server and Radius server that has built StrongSwan, and the connected users can make direct connections with the PNS server. The network communication of the device accessed through the PNS connection can be protected by an encryption network in all mobile environments.

StrongSwan-IKEv2 is one of the best protocols with the best performance on mobile among the various communication protocols; it has an automatic connection function using 'Pending' when it's available to connect, which gives excellent satisfaction to users who use the protocol.

The communication method of PNS uses IPSec-IKEv2 Protocol, and communication is encrypted with the AES-256 algorithm. Advanced Encryption Standard (AES) is a standard encrypted algorithm that

has been used worldwide since it was adopted by the US government and is known as the first encryption algorithm that can be used for national security. Two-way encrypted communication is able when using the PNS service, so users can be protected from threats in the middle. Also, secure services can be used when making MeetPle Token transactions from exchanges or remittances from wallets.

#### 5-4. MPT(MeetPle) Mall



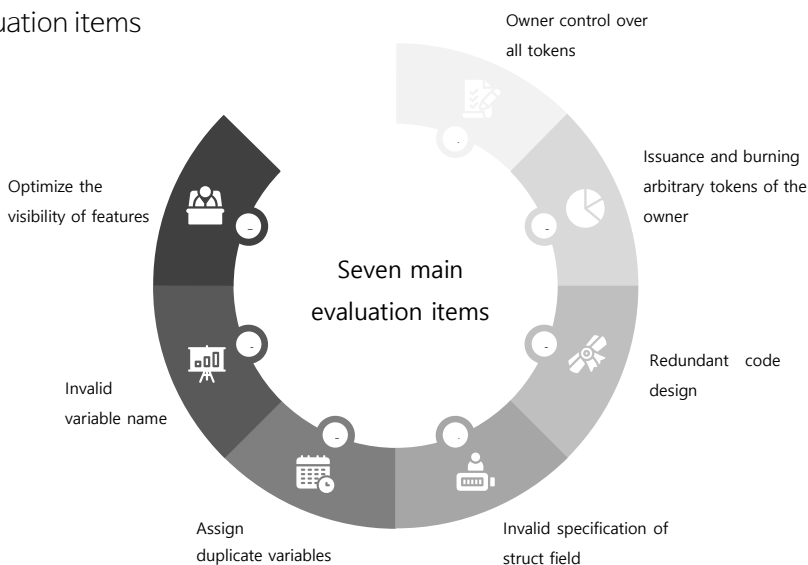
MeetPle-Mall operates in the form of an online shopping website that combines blockchain and cash payment. It's currently in pilot operation; we are developing a back-end API for ERC-20 Token control and linking it with the website to implement MPT Token for more diverse use. The online shopping website operates with the following logic.

### 5-5. Smart Contract Audit

The audit evaluation of MPT Token’s Smart Contract was conducted by Certik in the United States. Certik is a company that diagnosis any vulnerabilities in smart contract code when issuing tokens and audits any fatal and potential threats through it. Certik is known as a highly reliable company to comprehensively evaluate the security of the corresponding token’s Smart Contract.

There wasn’t any threatening or potentially problematic technical and development evaluation parts in MPT Token from Certik’s Smart Contract Audit Security Report. As a result, it has been evaluated as a ‘Safe and Excellent Smart Contract.’


■ Evaluation items



■ Audit Report

**MeetPle Token**  
 Request Date: 2021/06/16

**Audit Report - MeetPle Token**



CertiK has provided  
1 audit for the project.

Static Analysis
Manual Review

TYPE	LANGUAGE
Security Assessment	Solidity
REQUEST DATE	REVISION DATE
2021/06/16	2021/06/16

[View PDF](#)

<span style="color: red;">■</span>	0 Critical	<span style="color: green;">✔</span> All Resolved!
<span style="color: orange;">■</span>	0 Major	<span style="color: green;">✔</span> All Resolved!
<span style="color: gold;">■</span>	0 Medium	<span style="color: green;">✔</span> All Resolved!
<span style="color: grey;">■</span>	0 Minor	<span style="color: green;">✔</span> All Resolved!
<span style="color: blue;">■</span>	7 Informational <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <span>Centralization / Privilege</span> <span>Gas Optimization</span> </div>	<span style="color: green;">✔</span> 0 Resolved

# Token matrix

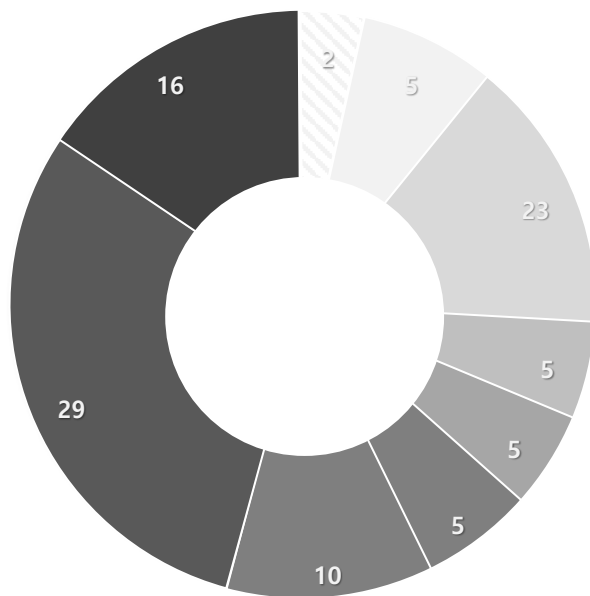
Figures on the token’s stable operating system and rewards

## Info

<b>Symbol</b>	MPT
<b>Platform</b>	Ethereum(ERC-20)
<b>Type</b>	Utility Token
<b>Decimal Places</b>	18
<b>Incineration Function</b>	3,000,000,000
<b>Incineration Function</b>	Yes
<b>Lock-up Function</b>	Yes

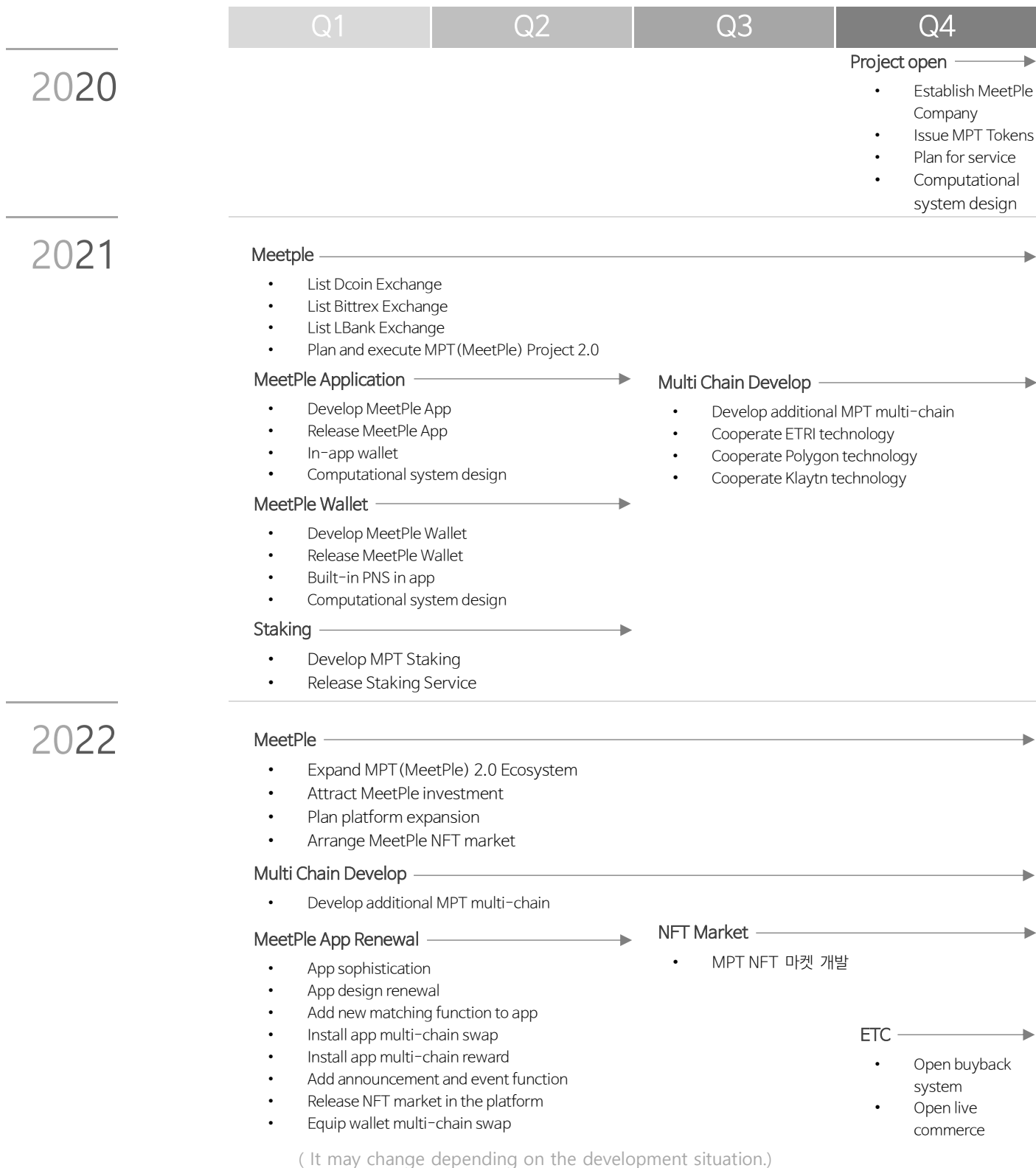
## Matrix

-  Seed Sale (2%)
-  Private Sale (5%)
-  Pre-Sale (23%)
-  Reward (5%)
-  Marketing (5%)
-  Advisors (5%)
-  Founder & Team (10%)
-  Company Reserve (29%)
-  Development (16%)



# Roadmap

## Meetple's plan



( It may change depending on the development situation.)

# Disclaimer

## Explains legal provisions

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This whitepaper may be revised without notice. This whitepaper is intended to provide general information and is not a definitive version. MEETPLE or its affiliates and/or businesses is not responsible for the description of other projects related to or dependent on this whitepaper and does not guarantee accuracy or completeness. In addition, no part of this document shall be interpreted as a recommendation or inducement to use the MeetPle service or purchase MeetPle tokens. MPT can only be purchased under the MPT Token Sale Agreement. If the risks described below and additional risks that are not considered as important are realized, they could have a material and negative impact on commercial viability; it could lead to the cessation of development and operation of the MPT.

A. The development or deployment of MPT, and other products and services of MEETPLE or of its affiliates and/or businesses, may fail, discarded or delayed, but not limited to, lack of funding, lack of commercial success or prospects, and lack of advertisers, publishers and users.

B. MEETPLE or its affiliates and/or businesses may be have access to their private keys or may be subject to data breaches or less. MEETPLE or its affiliates and/or businesses plan to implement reasonable security procedures, but MEETPLE or its affiliates and/or businesses cannot guarantee the success of these security precautions.

C. The MPT's functionality is complex, will require enhanced features and product support, and full functionality may take longer than users expect. The full functional implementation of the development of these tokens is not completed and cannot provide any guarantees as to when they will be completed.

D. A third party that gains access to the private key associated with the wallet may also gain access to the wallet. The loss or destruction of these private keys are irreversible.

E. The value of Ethereum may depreciate significantly, which may not allow MEETPLE or its affiliates and/or businesses necessary resources to continue their operations.

F. Cryptocurrencies are not subject to regulatory scrutiny by government agencies and other regulatory agencies around the world, and MEETPLE or its affiliates and/or businesses may be adversely affected by one or more investigations or actions.

G. The expectations regarding the form and functionality of the MEETPLE platform held by MPT buyers may not be met at the time of the distribution of MPT tokens due to many reasons including changes, delays or differences in design and execution plans (such as whitepaper or for any other reason.)

## MEETPLE Platform Team

H. The Ethereum blockchain is evaluated that is still in a relatively early stage of development, and Ethereum blockchain protocol has not been fully proven. Any malfunction, defect, breakdown or retirement of the Ethereum blockchain could have a significant negative impact on the MRP or MEETPLE platform.

I. The Ethereum blockchain is expected to change the consensus protocol/algorithm. This represents a risk for MPT, which includes the utility of tokens to obtain services or products offered by the MEETPLE platform, if methods to make new cryptographic consensus mechanism inefficient that will be the foundation of the Ethereum blockchain.

J. Technological advances, such as advances in cryptocurrency or development of quantum computing, may cause theft or loss of MPT, leading to risks to cryptocurrency and MEETPLE or its affiliates and/or businesses.

K. Token transactions are irreversible, and stolen or accidentally transferred MPT cannot be retrieved. As a result, wrongly fulfilled MPT transactions can negatively affect their value. Token transactions are irreversible from the administrator's perspective, without the consent and active participation of the transaction recipients or without theoretical processing authority and majority control or consent on the relevant blockchain. After transactions are verified and recorded in added blocks to the blockchain, erroneous transactions or their theft of MPTs are generally irreversible, and there is no compensation for such transactions or thefts. These losses could negatively affect the value of MPT.

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The date of publication

12.20.2020(ver.0.5)

Update history

06.07.2021(ver.1.0)

08.31.2021(ver.1.5)

01.10.2022(ver.2.0)

Meetple whitepaper

Language: English | Version 2.0

The end of the document.