

Whitepaper



secretworld
network

Feb-2022

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Foreword

The secret world is a virtual universe where members can play, earn and own digital content in the secret society universe supported by Binance smart chain.

Several concepts regarding the basic construction elements of this project will be briefly discussed in the foreword section to assist you in understanding the forthcoming set of information regarding the Secret world and the secret societies it supports.

What is a metaverse

The term Metaverse is used to refer to an online virtual space on the internet? It encompasses different aspects of the internet including, social media, gaming, augmented reality, virtual reality, and digital currencies.

In the Secret World, the secret society metaverse is a bridge between the physical world and the virtual world. Cryptographic protocols will emerge for managing digital value. All assets in this secret society metaverse are facilitated by NFTs on the Binance Smart chain, allowing affordable and seamless transactions.

Why Binance smart chain

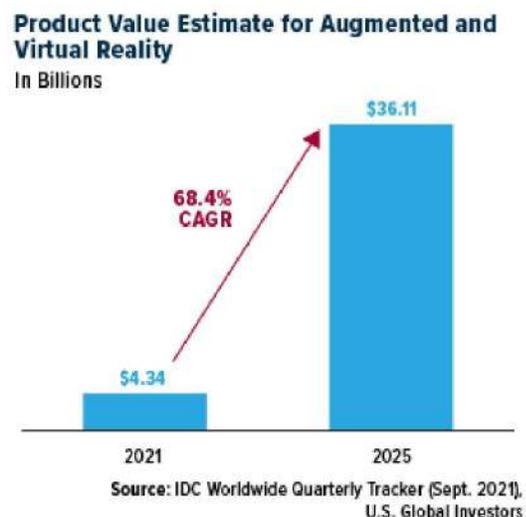
Binance smart chain token standard BEP-20 supports the use case of non-fungible tokens. Aside from that, Binance smart chain offers the cheapest transaction fee, making the blockchain the most attractive blockchain for new and mid-senior level investors. Besides that, BSc can also execute large numbers of transactions in a given time, thus providing scalability to its users.



Market analysis

Since Facebook has rebranded itself as Meta, the metaverse virtual reality concept has taken the crypto universe by storm. Projects with metaverse are flooding the marketplace. Metaverse is being added in every type of project ranging from marketplaces with metaverse to games with metaverse. Users are going over the board with experimenting with new features.

As a result, conducted by Zion market research, the results stated that the global market for augmented and virtual reality was supposedly estimated to be \$26.7 billion USD. However, a 2025-year estimation reveals that the market is supposed to grow at the CAGR of 63% and reach the market cap of \$814.7 billion USD.



Keeping the stats in mind, it can be believed market positioning and potential for a secret world has fairly significant changes. However, the competition for the secret world is as high as is. Large projects, such as Decentraland, Sandbox, Axie infinity are direct competitors of Secret world.

Secret world Game

The Secret World offers an exciting gaming module for Secret world players. The game entertains a large audience due to its unique game strategy and gaming mode, besides, exciting visuals on the network and in the game. Meanwhile, the blockchain of today attracts gamers naturally due to the intrinsic property of scalability and exposure.



The research conducted at IMF, interworld stats, calculates that the world population today is 7.9 billion, out of which 4.9 billion people have access to the internet, among them 2.7 billion are gamers. Hence, it can be assumed that almost half of the internet users are also gamers. The study further depicts that this ratio will decrease to two-thirds of the internet users, meaning 75% of internet users will be gamers.

In such a huge market, well-designed and equipped games like Secret World



A shift from centralized finance:

A case study

A centralized financial structure is built on the property of central governance. The building block of this type of financial structure is a set of regulatory bodies that work in harmony to efficiently conduct their business. A strong example of a centralized financial structure is The Central Bank and its regulatory bodies include the Fed, government, administration, R & D. Even the division of power among these regulatory bodies does not imply a fair transparent structure. The outcome is mostly a product of one or another regulatory bodies' agenda or influence. On the other hand, a blockchain-based, decentralized financial structure operates individually. The information remains closed depending on the structure of the blockchain: private or public. In both cases, the audience is limited, consequently, the impact too.

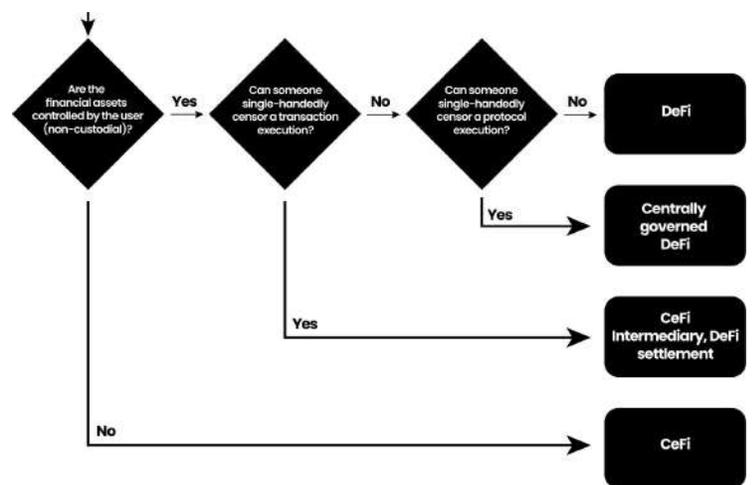


Figure 1: Decision tree for DeFi and CeFi structures

Table 1: Comparison of DeFi and CeFi exchange

	Centralized exchange	Decentralized exchange
Exchange name	NASDAQ	Uniswap
Currency	USD	Crypto coin
Governance	Centralized	DAO
Trade matching engine	Centralized	Smart contract
Transaction regulation	Regulated	No



Unlike a centralized structure, the DeFi structure's data cannot be altered or deleted. A DeFi body has public verifiability, privacy, custody to information, atomicity, execution order malleability, longer market availability, anonymity, and transaction scalability.

Introduction

The Secret world is a metaverse project constructed on Binance smart chain. This BSc crypto project enables its users to play, own, earn and trade. Comprises a secret society open for a limited number of individuals. Society overall remains low-key. The members of this society are granted different roles and positions to work on. Each position and role comes with its own advantages and disadvantages, members must patiently fulfill their duties towards the secret society with honesty and integrity.

The manual of the game and other properties of this project will be discussed briefly in the next section. As of now, it is of crucial importance to note that all parties involved in the project must align their interests with Secret world's core values and mission.

“Secret world is a decentral tokenized VR secret society powered by Binance smart chain network.”



Figure 2: Use cases of Secret world



#Play

Play. Compete. Earn

Secret world offers a play-to-play and play-to-earn gaming model, enabling users to come together, communicate on the platform, and play immersive games, all this while making significant earnings through it. The motive of the PP & PE gaming model is to invite traditional gamers to the Secret world game, meanwhile, offering an earning option for investors/gamers.

#Earn

Communicate. Enjoy. Earn

Secret world project provides multiple earning streams within its network. Users can earn through standard and compound Staking, Playing secret world games, Holding secret world utility tokens, and much more

#Create

Explore. Design

Users can bring their vision to life at Secret world through designing their own lands and characters. Users can accessorize their lands, and characters with additional feature NFTs.

Secret World



#Trade

Gather. Exchange. Earn

Secret world's marketplace is a huge market with large numbers of buyers and sellers producing infinite opportunities for members to pick what suits their desires.

Challenges faced by Secret world

The Secret world project comes across multiple challenges during its operations and market acceptability. In this section, it will be briefly discussed how the secret world faces these challenges. Challenges:

Quality content delivery: Most high precision and high-quality projects face two main issues: Speed and visual quality. Both these properties are inversely proportional to each other in terms of the higher the visual quality the slower will be the speed on the network because of the high stable network required for downloading high-quality visuals.

Solution: Secret world strikes the right balance among the two while delivering good quality meanwhile, not compromising on the speed of the network

The barrier for market entry: Most newer projects face market entering issues. As already huge competition is prevailing in the market, it gets very difficult for newer projects to create a space for themselves, let alone competing with old major projects.

Solution: Secret world caters to this issue by offering new technologies, and easy-to-use and understanding features.



Market comparison

This section will briefly discuss competitors and features.

Projects	Properties
Secret world	<ul style="list-style-type: none"> • Secret world is constructed on Binance smart chain. The underlying blockchain of this project utilizes BEP-20 token standards to support NFT and other gaming assets. It is also a scalable and efficient protocol. • Secret world provides a live demo of the game, unlike other projects like Atlas, which raise funds without showing any real progress being made. • Secret world does not require NFTs to play the game. Users can play the game with in-game assets initially for free. Only advanced levels in the game require players to own NFTs. • The Secret World game is based on the Play & Earn gaming model instead of the traditional Play-to-earn mode.
Decentraland	Decentraland is constructed on Ethereum, which usually has scalability issues and higher transaction fees. It also does not offer any other stream of income besides the game
The Sandbox	The Sandbox is built and backed by the Polygon network. The project offers staking, marketplace, and a game.
Axie Infinity	Axie Infinity offers an NFT based gameplay mode. This project is built on Ethereum too. Thus, this project too faced the issue of higher transaction fees and scalability
Blocktopia	Blocktopia is a metaverse project by Bitcoin, one of the major blockchains, however, it too faces scalability. The project, however, offers staking, gaming, and a marketplace.



The project features

The secret world DAO

Determine the future of the Secret world

The future of the Secret world is in the hands of its society members. The secret world DAO will enable users to mutually agree upon the functionality of the Secret society game. From the beginning, Secret world creators wish to hand over all power in the hands of community builders. Members will be able to influence crucial decision-making on the platform through creating polls and voting in favor of their proposed ideas.

The Secret world DAO is a decentralized autonomous organization, responsible for holding all crucial information and data to regulate seamless functionality on the platform. It also holds a substantial amount of \$SSD tokens which enables it to be entirely autonomous as well as being able to incentivize certain activities on the platform.

The governance structure of the network enables members of the community to participate in the decision making of:

- Token reserve allocation
- Community and funds distribution
- Amendments in token supply
- Sponsorships and grants



➤ Staking

The Secret world staking pools allow our users to lock up their \$SSD holdings in our staking pools to earn extraordinary APY with standard and compound staking services. Following are the staking pools on the platform with their predetermined APY and maturity time span.

- Staking pool 1 (Standard staking)
Stake \$SSD, Earn \$SSD.
Maturity time period 90 days
APY 20%
- Staking pool 2 (Standard staking)
Stake \$SSD, Earn \$SSD.
Maturity time period 120 days
APY 40%
- Staking pool 3 (Standard/compound)
Stake \$SSD, Earn \$SSD.
Maturity time period 180 days
APY 60-90%
- Staking pool 4 (Compound Staking)
Stake \$SSD, Earn \$SSD.
Maturity time period 220 days
APY 200%



The staking on the platform is enabled to assist members to earn a passive source of income. However, the APY generated on the platform is through a proper formulation

$$r(u, a, b) = \sum_{t=a}^b \mathcal{R} \frac{\ell(u, t) (1 + \frac{r}{n})^{nt}}{S(t)}$$

$r(u, a, b) = \sum_{t=a}^b \mathcal{R} \frac{\ell(u, t) (1 + \frac{r}{n})^{nt}}{S(t)}$

Where,

$r(u, a, b)$ = reward for user $a \leq t \leq b$.

\mathcal{R} is rewards minted per second

$S(t)$ is total tokens staked at time t

$L(u, t)$ is total tokens staked by user u at time t .

nt is the function of a number of times interest is compounded in a given time period, which then multiplies with the principal amount to increase it 100 folds.

The function shows the total return user a will get, depending on the tokens staked by user b at a given time in any compound staking pool on the platform

➤ Marketplace

The Secret world marketplace will be live soon!

The secret world secret society market will offer all necessities required by our community members, from pieces of land to information documents in NFTs. Secret world marketplace will be your one-stop-shop for all legal and illegal goods in the secret society. We got you covered!



➤ Tokens

Utility token:

The currency on the network

Secret world project has its native token called, \$SSD. \$SSD is used across the platform as the currency, staking, buying, and selling of gaming assets, and NFT minting on the project is done through \$SSD. The project is constructed on the Binance smart chain, hence it supports Metamask wallet. All users must first possess a Metamask wallet, to purchase \$SSD.

Non-fungible token:

The NFTs on Secret world are digital assets on the network, that drives its value from the combination of the following properties:

- **Utility:** The ability of an NFT to provide benefit to the holder
- **Scarcity:** Rarity of the NFT is also crucial in terms of its value determination
- **Interoperability:** The interoperability function of the NFT allows it to be used in other blockchain games. Hence, possession of these NFTs with interoperability feature increases their value
- **Aesthetics:** Aesthetically pleasing property holds enhanced visuals. This appreciates the value of the NFT.



Use Cases

Digital collectible

Secret world provides a wide variety of characters on its platform, that too, in the form of collectible non-fungible tokens. These NFTs are a view of the future, a future where everything is in the metaverse. These collectible NFTs are a sneak peek into our advanced research and development.

Entertainment

Secret world constantly entertains its users through periodic events and tournaments on the platform that invites all users to participate while providing them a chance to earn exciting rewards.

Game

Secret world game gaming models include NFT collectibles and PVE mode. The intrinsic model of the secret world game is a play-to-earn model. The basic agenda of the game is to incentivize gameplay.

Investor status

Secret world platform offers to stake on \$SSD utility tokens in return Upto 80% APY. Prior to the launch of the game, staking will offer users of the platform to earn exciting rewards as a passive source of income.



DAO governance

Some NFTs are voting tokens. These NFTs especially enable its holder to participate in all matters of the secret world platform, from tokenomics to the launch of new features and NFTs. The vote token holder will be a member of the governance society where all members gather to reach a mutual consensus for the advancement of the platform.

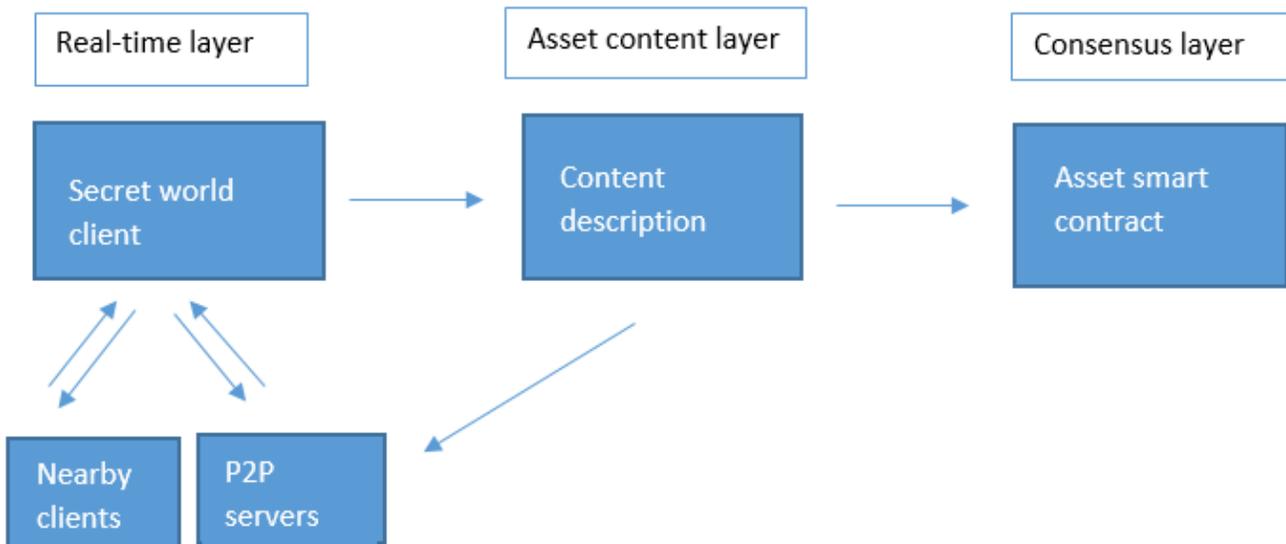
Project Architecture

The secret world project protocol comprises three layers

- Consensus layer
 - Track assets ownership and its content
- Asset content layer
 - It enables downloading of assets with a decentralized distribution network
- Real-time layer
 - Enables user world viewer to connect each other

Asset ownership is established at the consensus layer, where assets and other gaming content is referenced through a hash of file's content. Using this reference content can be downloaded from Torrent and IPFS. This downloaded file will then contain a description of sounds, objects, texture, and other elements required to render the scene. This reference also contains a URL of a rendezvous connection to coordinate the connection between P2P.





Consensus layer

Secret world will use Binance smart chain, smart contracts to maintain a ledger of ownership of assets in Secret world. Each asset here possesses unique (x,y) coordinates, an owner, and a reference to the content description file, that will encode what the asset owner wants to do with his in-game assets.

Content distribution layer

Secret world uses a decentralized storage protocol to distribute the content needed to render the secret world. For each parcel rendered, a reference to the file is retrieved from the smart contract. This reference includes the description of the parcel's content.

This decentralized distribution system aids in the proper functionality of the Secret world without the need for a centralized infrastructure. This system enables the game structure to



stand as long as the player's content is supporting the game. It does so by shifting the cost to the same members that benefit from it.

Meanwhile, the cost of hosting these files, and bandwidth required to serve this content is being served by the user out of sheer goodwill. However, in the near future, the project aims to develop a cost distribution structure.

Real-time layer

Users in Secret world will be able to communicate with each other through developing Peer-to-peer connections with the aid of servers hosted by asset owners and third parties.

Without a centralized structure, peer-to-peer connections are crucial to provide a social connection among users of the platform.

To coordinate these connections among different users, asset owners will have to provide rendezvous servers.

Game overview

What is a secret world

Secret world is a metaverse RPG game built and backed by the BSC network. It comprises a secret society located in the heart of crypto. Built on BSC, this secret world only allows a handful of limited influential individuals to enter their secret society, named 'The high table'. The secret world consists of different industries as metaverse



Secret World

where game members will be able to travel back and forth.

Target audience

- Traditional gamers: This includes both core and casual gamers in both PP and PE gaming modes
- GameFi gamers: This includes gamers interested in GameFi benefits, that is, Play to earn gaming reward structure
- Crypto/ blockchain enthusiasts: This include, traders, holders, NFT, DeFi folks
- Non-gamers, non-coiners: We target non-blockchain users to promote GameFi usability among masses

How to play

Once entered, there is no way out of the secret society. The members of the society are one blood and one soul. A member must align his core values and interests according to the society for the greater good. Albeit, becoming a member of the High table is not an easily achieved position. Users must win a great deal to be able, to even be considered for a seat at the *High table*

Within the secret world, the members of the secret society are assigned influential positions in different sectors of the economy depending on their loyalty towards the society. A member's loyalty in the game is treated at different levels. Higher the loyalty towards the society, higher will be the ranks assigned in crucial sectors, such as banking, politics, and major businesses. Players will be able to move back and forth in the metaverse.

In the beginning, all members willing to join the secret society will be gathered in the holy ground. This will be the first level of the game. As the users advance, the first three levels



are the sports sector, fashion industry, and health sector. The top levels are the finance industry, media, politics, military.

Members will also be able to join clubs in the secret society to increase their social circle in order to create allies and acquaintances, to advance in the game. Premium players will have access to luxury features, such as lavish continental hotel stays, branded designer suits, memberships of elite groups, access to data libraries. Upon fulfilling their responsibilities, players will be rewarded gold coins, which they can use later for a variety of purposes.

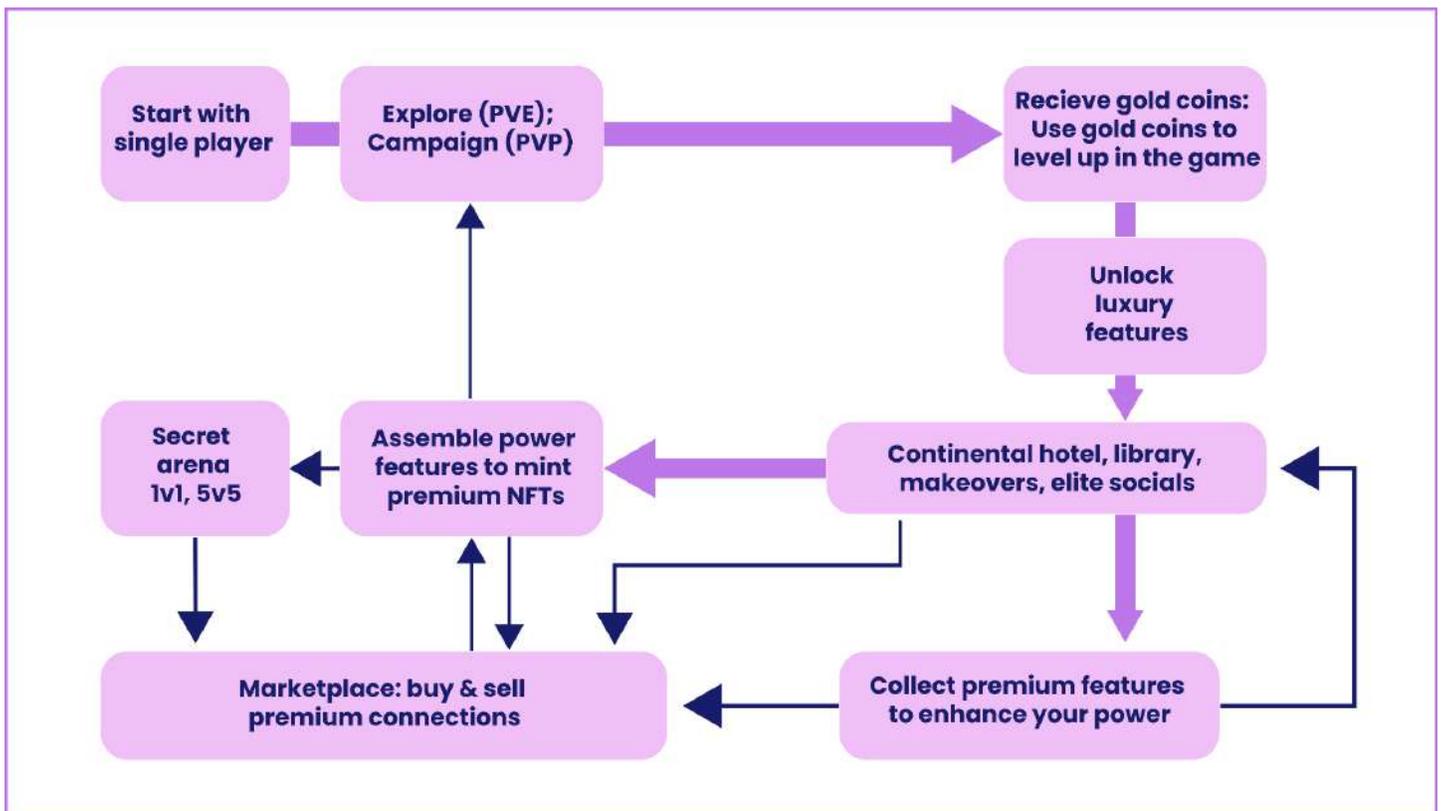


Figure 3: Secret world game flowchart



Game and backend technology

Game engine

Secret World was created using Unreal Engine 4.26. The battles take place in a simulation written entirely in C++ that executes game instances in less than a few milliseconds. This is then connected to the Unreal Engine and visualized. The simulation is deterministic, which means that the server can save very small input values and replay any match. The secret world will be able to easily archive every battle that has ever been fought.

Cinematic mode

A cinematic mode (the one shown in the game trailer) allows individuals with less powerful computers to render out matches in high quality. This is made achievable because of the deterministic nature of the underlying simulation.

The level world

Each level in Secret is painstakingly crafted by some of the world's best digital artists. Due to the workflow that heavily relies on an extremely powerful render farm, which enables the game to preprocess much of the computational data so that the graphics load in-game is lower, while still looking rich and detailed, proprietary technology is used to achieve a cinematic feel to the asset.

Backend

Our backend is hosted on Amazon Web Services, a world-class Infrastructure as a Service (IaaS) and Platform as a Service (PaaS) provider (AWS). Our core backend services are built



with AWS Lambda using a serverless model. This allows us to provide virtually limitless scalability while still maintaining a cost-effective solution.

We are using AWS due to its features, such as, it enables smooth functioning of applications on this code. All requests for our blockchain, except transactions, go directly to our API endpoint. Our API consists of microservices that run in the Amazon Kubernetes cluster.

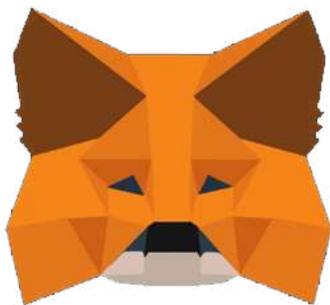
Payment channels

Secret world is built on and backed by Binance smart chain blockchain. It supports all wallets that are supported by its parent blockchain. BSC supports Metamask. The individuals that chose to play secret worlds must already possess a Metamask wallet prior hand.

Once the user possesses a Metamask wallet, he/she will have to convert their digital currency to \$SSD, which is the native currency on a secret world platform. All transactions on this platform are made in \$SSD.

Moreover, rewards are also made in \$SSD and the liquidity mining program also accepts only the native currency of the platform for liquidity pools.

Some part of the secret world in the game can be paid for through relevant NFTs that are required. Payment of this sort will also be applicable in some cases, as and when required.



METAMASK

Secret World



**BINANCE
SMART CHAIN**



ROADMAP

Q4, 2021

- ❖ Website launch
- ❖ Social media presence
- ❖ Whitepaper release
- ❖ Explainer video
- ❖ Gam design and play mode
- ❖ Blockchain testing
- ❖ Core team allocation
- ❖ Onboard engineers
- ❖ Pre-seed

Q1, 2022

- ❖ Implement smart contract
- ❖ Smart contract audited by third party
- ❖ Testing game environment
- ❖ Engine development
- ❖ New features testing and development
- ❖ Raising seed fund

Q1, 2022



- ❖ NFT integration with the game
- ❖ Demo gaming environment
- ❖ Additional features in the game
- ❖ Mobile app development
- ❖ PP and PE testing on-chain
- ❖ Binance NFT marketplace listing
- ❖ Strategic partnership
- ❖ CEX listing

Q2, 2022

- ❖ Mobile app launch
- ❖ Metaverse marketplace
- ❖ Ad integration with real-time bidding
- ❖ Marketing and advertising
- ❖ Off-chain reward system for players

Q3, 2022

- ❖ Strategic partnerships with VC
- ❖ Onboarding advisors
- ❖ Collaboration with gamers
- ❖ Integration with non-EVM compatible blockchains
- ❖ Gaming architecture scalability

Q4, 2022



- ❖ On-chain wallet incentives
- ❖ Interoperability functionality
- ❖ Major expansion
- ❖ Advanced digital assets
- ❖ Strategic partnerships
- ❖ Marketplace

TOKENOMICS

- 10% Play to Earn
- 20% liquidity pool token
- 5% for treasury funds
- 35% Fairlaunch
- 27% staking pool
- 3% for advisory funds

Revenue Model

Secret world project is a multi-purpose DeFi project. The project offers a variety of options to generate a passive source of income. One of these streams of income is the Secret world

Secret World



game. Instead of relying on purchasing NFTs to participate in the game, users are free to play the game. The game has additional features of monetization to expand the game operations. However, users are free to choose from play-to-play and play-to-earn models. Below is the explanation on in-game purchases in Secret world operates:

NFT 'expansion set' sales

The main in-game purchases on Secret world are the NFTs. Players of the game can unlock these cards by winning in the game. Whilst our developing team is constantly designing new cards to increase excitement in the game. These expansion sets are a bundle of NFT based on the BEP-20 token standard. Once purchased these non-fungible tokens can be used within the game or traded in the marketplace.

Secondary market royalty fee structure

This feature is still under development. We plan to launch this feature in the second quarter of going live. This includes charging a royalty fee at all immutable X-powered marketplaces, that include OpesSea and others. This will increase our revenue generation as the secret world community increases.

Game reward model

A fixed amount of reward will be allocated for these PP & PE campaigns

- Weekend reward
- Daily token rewards
- Operations
- Seasonal rewards
- Tournaments
- Special gaming mode

Our vision and mission



Our mission and vision is to revolutionize blockchain gaming while keeping the true essence of PVE games alive. The secret world game is inspired by the presence of secret societies operational in different areas of the world. It is an attempt to bring new gaming technologies into our old games to strike the right balance of innovation and nostalgia.

We aim to transform the Secret world into an ecosystem. This platform is not limited to NFT and tokens. We aim to provide entertainment and a fun way to learn and earn in the crypto space. The secret world is the future of the Metaverse.



Moreover, we aim to increase our reach to the audience and become a global game. For this purpose, a number of features are under development. These features include



Retention of gamers through ownership and monetization

We believe that the key to absolute growth is through retaining the existent revenue stream, in terms of the game, the existent revenue streams are the player. The secret world will retain its players by enabling them to own in-game assets, utilize and monetize them.

Mobility and interoperability

Another key to greater success, in our opinion, is the relevancy and ease of interoperability. For this purpose, Secret world plans to bring other networks on board in order for our users to easily transfer their assets from one network to another. This property will enhance the utility of our assets.

Hyper competitive user acquisition

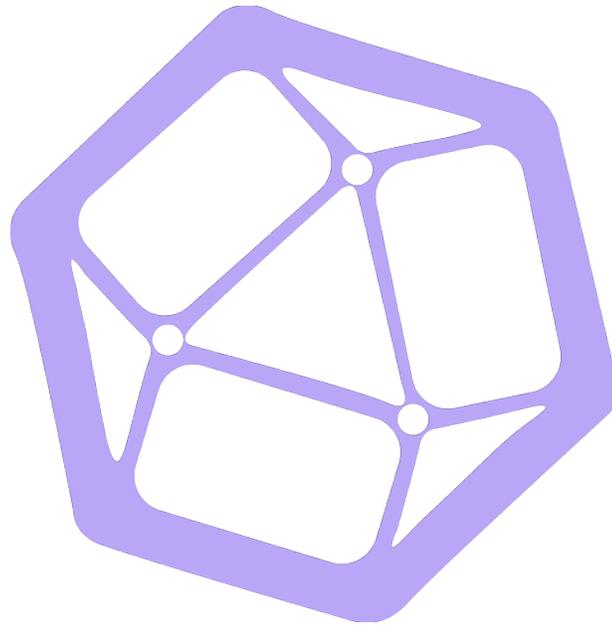
Secret world aims to enhance its user acquisition through simplifying the gaming model. We strongly support the narrative that plat to earn games cost 30% lower acquisition costs, hence, we plan to own a cost-competitive edge.

Compounding growth loops

Secret world promotes experimentation with multiple growth loops. Below are the certain loops that we aim to introduce

- Influencer loop: we aim to bring world-class influencers on board to play our game
- Viral referral loop: we will introduce a referral loop that will benefit players who invite other players on the network
- Engagement loop: we aim to monetize engagement on our network to reward those who have more engagement on the network. We see loyalty as a valuable property.





Thank You

