



StarAtlas ( star map )

# TECHNICAL WHITE PAPER

Asia Pacific Version 1.0



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# Abstract

With the rapid development of blockchain technology and the emergence of various value able applications, the blockchain industry has undergone tremendous changes. The token economy has greatly improved in terms of technical complexity, depth and breadth of contents. The new technology system and the form of business and economy it represents are showing a strong vitality.

As an emerging technology, blockchain technology has strong compatibility and high liquidity. It is a natural fit for the financial industry and will be perfectly used in various ecosystem scenarios in the financial industry. It opens up a tide of DeFi applications in many realms such as NFT, depository, credit, equity, lending, pledge, asset digitization, etc. Blockchain technology has changed the traditional business finance and value delivery methods and prompted rapid social progress.

Based on this, Star Atlas was born based on its unique value advantages and technical applications and developed at the boom of rapid technological development.

# Description

This document is a white paper of Star Atlas, mainly introduces the background, technology and application, governance structure and future business development of the project.

# Copyright Notice

This document is copyrighted and reserved by the Star Atlas project team and community board.

# Refinement Statement

Currently, blockchain technology is in a state of continuous development. The Star Atlas team and community will continue to improve and refine the existing product programs as needed in the future, and will continue to upgrade this document to keep it as consistent as possible with the technical implementation.



# PART 01

## Current Market Status and Future Forecast of NFT

*Libra*

# 1.1 NFT market status



NFT, known as Non Fungible Token, is a non-homogeneous asset, an indivisible and unique pass, a digital credential that can anchor real-world items.

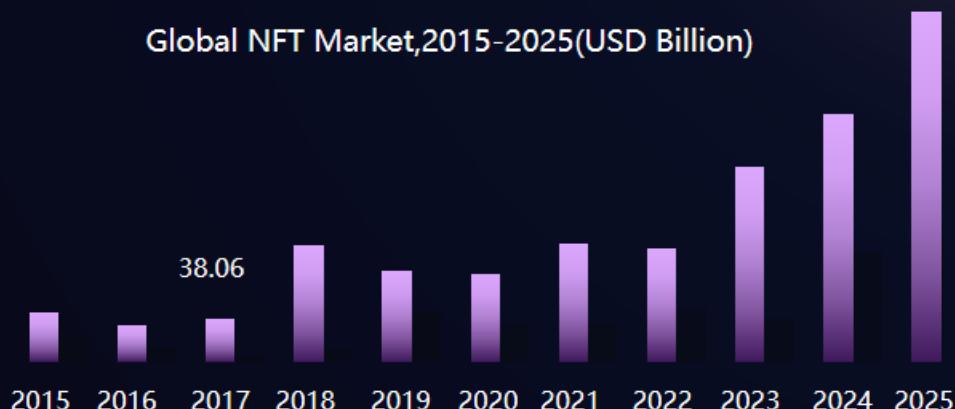
CryptoPunks, which had been developed based on Ether, opened the curtain of NFT in 2017, and six months later cryptokitties (crypto cats) became a phenomenal project, becoming the first Dapp to paralyze the public chain of Ether, and the game category has become a major branch of NFT.

Opensea and other NFT secondary trading markets have been established and developed one after another, providing a basic platform for the production, authentication and trading circulation of NFT products, and there are also Flow, Matic and other underlying public chains dedicated to serving NFT.

In the global market, famous artists, sports stars, artists such as Twitter CEO, Brazil's Ballon d'Or winner Pele have embraced the NFT concept in succession and released their own NFT products.

In 2021, NFT began to explode in the Chinese market, the Chinese version of NFT - digital collection platforms emerged, such as Tencent's Magic Nucleus, Alibaba's Whale Probe, the one.art of World of Art, have taken the first step in the NFT attempt.

Global NFT Market,2015-2025(USD Billion)





## 1.2 NFT instantly ignites the world and focuses the attention of the world

- The digital world brought by NFT

A short video, a virtual fashion, a code, a game equipment, an expression pack, or a classic moment of NBA star's career can be collected in the digital world in the form of NFT art collection.

- Features of NFT Crypto Art

NFT is a non-homogeneous token, and the characteristics of NFT crypto art are very clear. Firstly, it is unique and cannot be modified even by the author himself. The whole process is open, transparent and traceable. Second, NFT works are not like physical works of art that will become old and worn over time. Third, the decentralization of blockchain technology makes it free from space constraints, and the entire process is open, transparent and well-documented .

Global regional NFT trading market allocation





- The world of NFT is constantly widening

The boundaries of NFT art are still widening. Early NFT works may only be a JPEG picture, but now it has been connected with audio, movies, games and other fields. NFT gifts, NFT blind boxes and other forms have also started to be developed.

Currently, NFT is focused on three areas: digital collections, game assets and metaverse.

NFT has many advantages. For example, artists can cash in their digital artwork; create verifiable game items in games; create a brand new digital collectibles ecosystem; and benchmark real-world assets against digital tokens to enhance their liquidity.

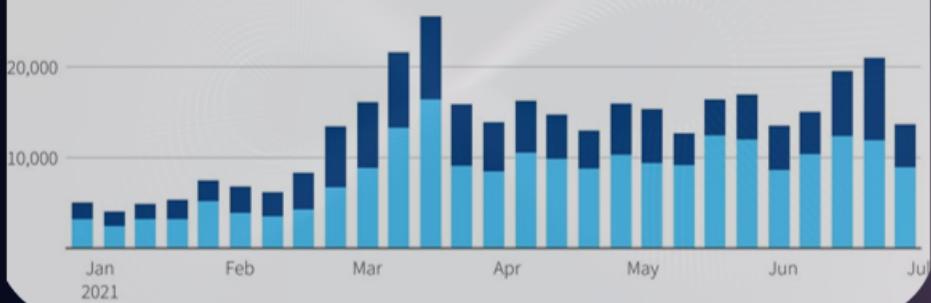


## 1.3 How far has NFT come?

### Weekly NFT buyers - NonFungible.com

Number of buyers on non-fungible tokens on the ethereum blockchain per week

● primary market ● secondary market



In the first six months of 2021, NFT's sales reached \$2.5 billion (according to DappRadar). This compares to sales of just \$13.7 million in the first half of 2020.

At the same time, this sales number is greatly underestimated because the statistical source only tracks on-chain sales, i.e., on the blockchain, and does not take into account NFT's significant off-chain sales, such as auctions. nonFungible's tally is \$1.3 billion, excluding the roughly \$8 billion DeFi NFT.

While this volume is less than the value of a public chain, the potential manifested by NFT has begun to attract continued industry attention, and the latest craze in crypto led by NFT is changing the way we buy and sell goods in the digital space.



## 1.4 NFT Value: A Marketplace with Efficient Resource Allocation

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A market that allocates resources efficiently must have property rights that are clear, proprietary, transferable, and tradable.

The NFT in the era of digital economy satisfies precisely these characteristics: NFT provides unique proof of copyright for the works of general creators, and although still presented in electronic form, but they are distinguished from other copies. NFT copyright also gives you exclusive possession; NFT is easily and quickly circulated and transferred on the blockchain network, which allows these works to be sold at the most appropriate price and stimulates creative enthusiasm. The NFT can be easily and quickly circulated and transferred on the blockchain network, allowing these works to be sold at the most appropriate price and stimulating creativity. Artworks, collectibles, copyrights, music, games and everything else can be operated on NFT.



## 1.5 The future of NFT

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NFT brings a new imagination to the digitization of assets, and the convenience and global nature of blockchain asset trading brings a broader purchasing power. With a lot of coverage on blockchain of global media in technology, finance and even art, the non-financial consumption and transaction method is starting to be more accepted by more people. The crypto industry has also found a development direction with weak financial attributes in this regard, and has shown considerable market scale and development potential. Star Atlas, as an early explorer in this field, will continue to explore and improve the possibilities of innovative creation of crypto technology, and continue to deliver fresh blood to the whole NFT market and even the crypto industry.



# PART 02

# Star Atlas

*Pisces*



## 2.1 Background of Establishment

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Constellation Labs agency, from the budding of smart contracts in 2017 to Defi and Gamefi in 2020, and the just-past 2021, NFT is undoubtedly the hottest topic. Next is NFT2.0, web3.0 Dao is knocking on the door of the metaverse. This is why Constellation Labs is greatly focused on technology to build Star Atlas - the establishment of the Star Atlas LAB blockchain NFT technology lab, because the trend of the explosion fo the boom is too big. star atlas star is the product of the trend.

The innovation of Web3.0 windfall, including the current web3.0 comprehensive diversified ecosystem NFT platform system, combined with novel ecological playing methods can attract more players around the world. Lucky DAPP with the theme of constellation NFT increases the NFT community heat and fan cohesion of Star atlas through the blind box, increases the trading activities of Star atlas platform, and creates ecological circulation properties by the way of Token.

The platform makes the first constellation blind box light asset co-creation model, which is in line with the financial principle and at the same time caters to the market leaders.





## 2.2 Introduction of Star Atlas

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In view of the current problems of high transaction fees, high user thresholds, and low liquidity in the world's mainstream NFT trading platforms, through two years of research and development, Star Atlas LAB has developed a cross-chain, multi-ecological compatibility, low transaction fee, user-friendly trading platform. Star Atlas is a dual-system comprehensive trading platform that combines an NFT trading system that can continuously inject liquidity into the market and a decentralized swap trading system with a low threshold for use. As an open source Web3.0 decentralized blockchain platform, Atlas (Star Atlas) focuses on fast Web3.0 transactions and a blockchain network that improves throughput. Atlas combines the proof-of-stake PoS mechanism with PoH (Proof of History), and proposes a mechanism dedicated to Web3.0, PoS-H. A number of technological innovations in the NFT field, Star Atlas and Social, enable Atlas' Tps to match all network performance.

Star Atlas ecosystem is divided into three layers.

Technology

Application

Governance



Technology is created as the underlying architecture of the whole ecosystem in the future, which we call Star Atlas public chain system.

Applications are the core of the Star Atlas ecosystem, and the comprehensive platform of NFT-based digital trading and decentralized swap of digital assets is the core of applications.

As an on-chain financial trading system, Star Atlas provides users with decentralized trading of digital assets and integrates community autonomous DAO mechanism to manage the ecosystem autonomy.

What Star Atlas wants to build is a super version of Star Chart Public Chain + Constellation Culture NFT + Decentralized Community Autonomy (DAO) + DeFi (SWAP) + Derivatives.

PART 03

# Star Atlas Public Chain System

Leo



### 3.1 Public Chain Overview

Star Atlas platform has an open source public chain as the core component of the underlying - AS public chain (Atlas chain), and provides an intrinsic incentive-driven functional module and application market for the system to guarantee the operational effectiveness of the whole ecological network.

AS public chain is mainly responsible for system ecological asset issuance, asset transmission/storage/destruction, contract deployment, consensus, data on-chain verification, network voting and other functions. The public chain adopts a multi-consensus algorithm that combines proof-of-interest PoS mechanism and PoH (Proof of History), and votes through the principal mechanism to form irreversible and immutable blocks, which ensures high concurrency and security of the network.

At the same time, the Open Chain Access Protocol of AS public chain helps break the blockchain value islands, establish cross-chain asset interaction network, and provide the required underlying support for its application ecology.





## 3.2 Overall Technical Architecture

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The overall structure of the StarMap public chain includes seven layers.

(1) Data layer: This layer is responsible for caching or storing data related to the system, including user status, consumption data, file data, etc.

(2) Network layer: It mainly protects the connections of a large number of users, performs attack protection, corrects a large number of connections to a small number of TCP connections, and communicates with the logic layer.

(3) Logic layer: This layer implements the core logic of the system, such as private chats, announcements, messages, etc.

(4) Consensus layer: Star Atlas p combines the proof-of-interest PoS mechanism with PoH (Proof of History) to propose a mechanism PoS-H dedicated to Web 3.0.

(5) Incentive layer: Star Atlas public chain adopts dual-coin incentive mechanism to build its own complete ecological application system.



(6) Contract layer: The contract layer provides full lifecycle management for each asset on the chain, and provides complete and controllable process management for the submission, deployment, use and cancellation of smart contracts, and integrates authority management mechanism to provide comprehensive security management for each mechanism of Star Atlas p smart contract operation.

(7) Application layer: This layer provides iOS / Android development SDKs for mobile terminals using TCP and HTTP protocols according to different service types.

By following these simple rules, the StarMap public chain can achieve efficient performance of processing tens of thousands of transmissions per second without the need of destructive optimization to increase the processing speed of the StarMap public chain.



### 3.3 The two major technical ecosystems of public chains

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- Swap

Star Atlas Swap is a multi-chain and cross-chain decentralized transaction ecosystem based on the Star Map public chain. Through the decentralized transaction system, it helps both sides of the transaction exchange their respective digital assets, while users can realize asset transfer between multiple chains such as BSC and Tron through this cross-chain bridge. It provides users with the demand of multi-chain asset interconnection. It will serve most of the global users who support digital asset trading and aim to help people exchange digital assets safely and reliably with decentralization.

Star Atlas Swap is positioned to solve the pain point problems of joint co-creation between users and issuers. The interests of both project parties and users can be securely protected.



## ● NFT Decentralized Exchange

Star Atlas NFT trading platform is a comprehensive platform for digital collection and trading based on NFT with dual chains of Binance smart chain and AS public chain in parallel. Users can cast, display, trade and auction NFT on the platform without any coding skills.

Meanwhile, the Star Atlas NFT trading platform has a low threshold and convenience of use, and the on-chain contract guarantees the security of transactions. Users can create their own NFTs on the platform or connect different NFT projects and put them on the trading platform. At the same time, you can view your NFT on the chain, all transactions are an on-chain behavior, users buy NFT with cryptocurrency, and the settlement of transactions is guaranteed by blockchain smart contracts.

Star Atlas NFT trading platform functions.



- Trading of usage rights

Creators can place the right to use their NFT works on the platform for trading. The platform supports retail users to purchase NFT, and the purchaser can directly own the right to use.

- Copyright Trading

The platform supports various trading modes such as listing trading, bidding trading and agreement trading.

- Multi-chain interactive trading

The NFT works uploaded by Binance Smart Chain, TronChain and Solana can be traded on the platform.

- Investment Empowerment

The platform provides NFT pledge lending; NFT leasing (to big brands); NFT installment purchase and other investment DeFi mode.

- Social Attributes

NFT global on-chain chat room (holding the same series of NFT, entering the same block chat room) of social network board about dating, circle, brand, medal.



## 3.4 NFT applications on the Star Map public chain

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- Digital Constellation Art NFT, Trading, Bidding

NFT essentially creates scarcity and realizes the value of collection.

The number of constellation NFTs issued on the Star Atlas platform is fixed. Each has a unique scarcity. Using NFT to sell and auction constellation assets is a good choice. The users holding the assets get desired revenue. It pulls up the value of Star Atlas' NFT and token assets, and also provides a sample to the market to drive the rapid expansion of NFT assets on the chain.

- Constellations Social Culture Circle

Psychological research shows that knowing the horoscope and understanding the horoscope is not only the need to know and manifest oneself, the need for interpersonal communication, but also the need to have a belief. Astrological culture is actually a way to solve the problem of "being lost, not knowing what to do" and "having no direction, not knowing what to do", a kind of spiritual trust that gives people guidance and a sense of certainty.

NFT global on-chain chat rooms (hold the same series of NFT, enter the same block chat room) social network boards about dating, circle, brand, medal. The horoscope also becomes a good entry point to open the conversation, both online and offline during the chat. When you walk up the streets, you can even find buildings named after constellations.

Star Atlas combines the specialization and extreme entertainment of horoscope culture, and builds an online digital horoscope culture trend position through the form of community incentive (rewarding platform token assets) to create the most fashionable and interesting social culture circle of horoscope.



- NFT pledge mining (NFT synthetic mining pool rewards)

In the future, as the value of Star atlas platform assets becomes stable, the system will realize Lucky DAPP NFT pledge mining and open synthetic mining pool rewards to realize NFT pledge, lending; leasing (to big brands); and NFT installment purchase and other investment DeFi mode. Users will use their constellation NFT for various investment operations to obtain fuel tokens rewards.

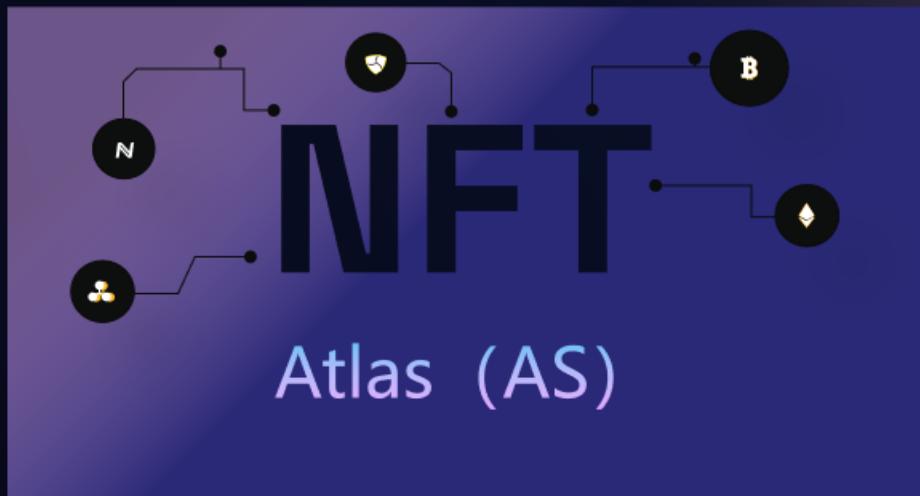


## 3.5 Atlas (AS) Public Chain Test Network Rewards Program

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Holders of the first batch of NFT series (constellation) of AS public chain can participate in the rewards of Atlas public chain test (task mining); after certifying the NFT held on the chain, they can get AS by doing questionnaires (by promoting public users and new users of public chain and filling out questionnaires to get increased AS yield).

It is also possible to obtain NFT purchasers of different public chains, users' preferences and behavioral habits of NFT. (Initial users of public chains who do not hold NFT can also get AS for free by filling out the questionnaire at the promotion address, but the gain is not as much as the holder).





# PART 04

# Decentralized Governance Structure

*Aries*



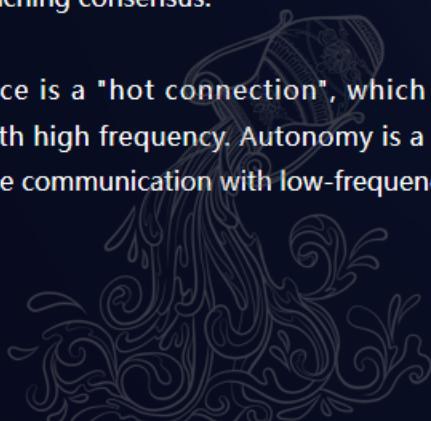
Star Atlas is a community-driven, global open source platform, the community ecosystem is the vitality of open source projects.

Star Atlas community will promote the development of Star Atlas decentralized ecosystem by providing perfect development documents and mature development tools, supporting excellent applications and rewarding project contributors.

Star Atlas has set up NFT Technology Lab and Foundation in Singapore to manage and operate the community. Initially, Star Atlas team will inject 1,050,000 AS (technology R&D accounting for 5%) into the community fund to support and promote the project development.

In terms of community governance structure, we adopt a dual governance structure of human governance of node by man + DAO autonomy model to ensure decentralization and security without losing the efficiency of reaching consensus.

Human governance is a "hot connection", which is unquantifiable communication with high frequency. Autonomy is a "cold connection", which is quantifiable communication with low-frequency .



*Aquarius*



- Human Governance of Node - Consensus Voting

Governance is the process that people reach consensus on subjective issues that cannot be fully captured by software algorithms.

Star Atlas opens a vote on the decision to freeze an account, and if more than half of the super nodes agree, the freeze is executed. The block producer blockchain technology can create a P2P service agreement or binding contract between signed users, also known as a "constitution". Constitutions define obligations between users that cannot be fully enforced by code alone. Combining mutually accepted rules to establish jurisdiction, the constitution judges in an often contentious governance process when applying the law.

Freezing accounts consumes unreasonable resources. When such problems occur, the producer should have the ability to correct the situation. If the power is abused, it can be eliminated and the account will be unfrozen.



- DAO Autonomy - Quantifying the Process

The advantage of DAO is to reduce the cost of human-to-human communication through automatically executed code, but most DAO-governed DAPP games on the market today don't seem to reduce communication costs, but rather increase?

It is because there is no quantitative indicator of the effectiveness of governance and no standardized process that can be referred to.

Generally speaking, if your DAO is a non-minimal viable DAO, such as a product development team, or a decentralized company, then autonomy will definitely account for most of the workload of DAO governance.

To address this drawback, Star Atlas Fuel Node SR is dedicated to handling quantifiable matters in DAO governance. Examples include development tasks, design work, financial processing accounting work, etc. These transactions can usually be designed ahead of time with automatic execution procedures. We even only need to design a well-designed incentive mechanism to cope with different types of work.



# PART 05

# Economic Model



*Virgo*

Coexist DAO



SR-AR dual-currency linkage

Token I: SR

Total issue of 210 million pieces.

SR function: It is a digital asset issued based on BSC smart chain, and is the incentive Token of Star atlas platform, SR is fully circulated, the purchase of blind boxes are fully destroyed, that is, the ultimate deflation. Its future value is immeasurable. In the later ecosystem planning of StarSwap, the subcoin AS of SR will also be used as the platform coin.

Transaction fee allocation.

Buy slippage 4%: 1% of which is added to the bottom pool, 1% of which is distributed to all nodes, 1% to all nodes for airdrop, 1% NFT incentive.

Sell slippage 9%, of which 4% is the same as buy and 5% back to AS.

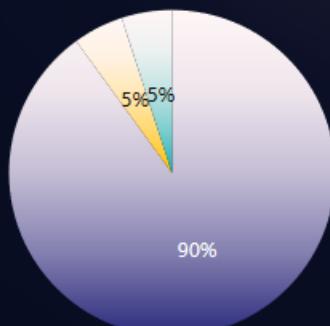
Token II: AS

Total issue 21 million pieces.

Of which 90% blind boxes output, 5% technology development, 5% institution.

AS utilities.

- ① Used for all transactions and transfers in the public chain to destroy
- ② Used for bidding NFT and all destruction
- ③ Used for swap transaction fees.
- ④ Used for NFT exchange transaction fees.



## PART 06

### Introduction of Core Team

We have an internationally connected first-class team, most of the core members come from the current blockchain popular big companies, with rich experience in blockchain technology and product practice. They are dedicated to web3.0 technology application, as well as the development and casting of NFT aggregation trading platform.

At the same time, Star atlas Lab has also won the favor of Star Chain Capital and Powerway Capital. As the leader in China, It leads projects to blossom all over the country and brings a continuous market push to Star atlas .



**Markus Bock**

Founder of Star Atlas LAB blockchain and CEO of Community Foundation.



**Blake Robinson**

Technical Director, NFT

Graduated from the University of Chicago with a degree of Finance, he has extensive blockchain industry and project experience. He is skilled in leadership, and has excellent insight in project planning, and now serves as the overall project leader of Star Atlas and CTO of the Foundation.



### Gavin White

Head of Community Operations

Gavin White is graduated from MIT with a Master's degree in Computer Science. He has worked as a product manager and marketing manager in a well-known Internet company, and has more than 10 years of experience in marketing operations.



### Tom Campbell

Core Technical Member

Graduated from Oxford University majoring in computer science, he entered the blockchain industry in 2014, and is extremely talented in the blockchain field. He has been involved in several successful blockchain projects and is mainly responsible for the front-end development of Star Atlas.



### Mark Adams

Core Technical Member

Graduated from Stanford University with a degree in computer science, he is obsessed with software development and loves blockchain industry, and is the main developer of several blockchain projects. Now, he serves as the head of backend architecture development for Star Atlas.



PART 07

# Project Development Path

*Taurus*



In the design of the whole system, we hope that the vast majority of scenarios will eventually be implemented based on decentralized solutions, and we firmly believe that decentralization will become the future of the global digital finance industry. However, Star Atlas is not a pure on-chain project starting from scratch, it already has a certain degree of business underpinnings and technical structures, and needs to respond to the market environment and technical development in a more flexible manner.

With this premise, we have developed a rough roadmap and hope to be able to implement the scenarios outlined in the white paper within one year, but we reserve the right to adjust the overall development schedule and macro planning based on the environment.



## **2022.2-2022.5**

Project established, core team building completed, project technical route and economic model research.

## **2022.6**

Star map public chain system framework construction, completion of basic function development.

## **2022.7**

Project white paper released, Swap+NFT two ecosystems design and technology development.

## **2022.8**

Token generation based on Binance smart chain BSC-20 protocol, Constellation DAPP online.

## **2022.9-2022.12**

Transfer of ecosystem tokens to the main network of the public chain of Star Map; NFT ecosystem application: supporting external NFT assets circulated on the chain for transactions.

## **2023.Q1**

Asset system launched; Star Map public chain system ecosystem promoted and capacity expanded.

## **2023.Q2**

Star Map main network is extended to the whole digital financial industry chain.



## Disclaimer

Please read this disclaimer section carefully. If you have any questions about the actions you should take, you should consult your legal advisor, financial advisor, tax advisor or other professional advisors.

- (1) The information contained in this white paper may not be comprehensive and does not imply any element of a contractual relationship.
- (2) The contents of this white paper are not binding on the ecosystem of the growth value of the token the platform issues and may change as the project continues to be developed.
- (3) This white paper does not constitute advice in investment, law, tax, supervision, finance, accounting or others, and is not intended to provide the sole basis for transaction valuation for the transactions of Star Atlas platform issuance tokens.
- (4) Nothing in this White Paper is deemed to constitute a prospectus or invitation of investment and does not in any way involve an offering or solicitation of an offer to buy any securities in any jurisdiction. To the extent that the laws and regulations of any jurisdiction prohibit or in any way restrict transactions involving or using digital currency, this document has not been prepared in reliance on such laws and regulations and is not subject to the laws and regulations of such jurisdictions.



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Please read the project disclaimer tips in detail before purchasing platform tokens and other virtual digital assets by individuals or organizations, thank you for your cooperation!