

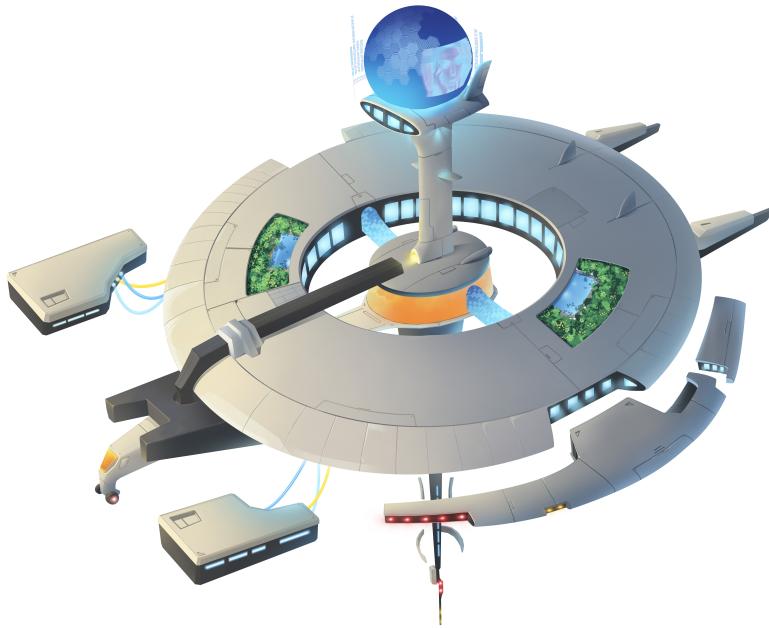
MetaSpace

Whitepaper V1.0

Introduction

MetaSpace is a play-to-earn capital operation game powered by Tron blockchain, with integrated outer space geography inside a game world. Consisting of 5 galaxies, each galaxy provides new players materials necessary to begin building their world. Over time, MetaSpace will open additional space plots to allow players the opportunity to expand their empire.

In MetaSpace, players can accumulate primary materials from mines, and process these materials in factories to obtain advanced building materials. Certain combinations and amounts of building materials will produce varying levels/types of properties.



Constructing property on a space plot within a galaxy will generate rent for the owner (similar to crypto-mining or yield farming). Property can also be traded for profit. Strategic players can even monopolize whole industries of primary materials, advanced building materials, space lands, or factories to haul massive returns with various business tactics.

The world of MetaSpace offers players maximal gameplay freedom. Players may upgrade their properties to maximize profits and landowners have the final say over the usage of their

space lands. Landowners can thereby control whether other players are allowed to build properties or mine on their land slots, and may impose tax rates which cannot exceed 10%. MetaSpace also provides players with a wealth of advanced financial tools for capital operations. If players aren't drawn to solo gameplay and become lone heroes, they may choose to find teammates, combine forces, and start a consortium to collectively build an economic empire! Multiplayer alliances will provide players a game experience distinctively unique in game-fi, perhaps another charm to the already abundant appeals of MetaSpace.

Roadmap

2021

Q4: Creating game concept, concept optimization, finalizing product model.

2022

Q1: 100 million Star Token seed round; OG NFT public sale; Gameplay V1 launch.

Q2: V2 launch; space land sales; iterations of property systems.

Q3: Increasing connections and integrations with Tron DeFi projects, becoming an entrance into Tron GameFi ecosystem.

Q4: Game engine update to 3D display; Allowing players to design their own spacecrafts.

The Future

Inviting and assembling a wide range of talents from the MetaSpace community to participate in future project iterations and to establish the MetaSpace Foundation. From then on, MetaSpace will be entirely given to the community.

Game Instructions

1. Game Token

MetaSpace has a native TRC-20 currency used for in-game trades and transactions:

- STAR

STAR are tokens mined from within the MetaSpace world, with **2 billion maximum supply** to be available. Apart from seed rounds, mystery boxes, community events and other allocation of STAR, 75% of all STAR will be "buried" in the MetaSpace world for anybody to mine.

2. Raw Materials Mining

At the beginning of the game, players need to go to different primary workshops (Crystal Ore, Gas Mine, Gold Ore, etc.) to farm corresponding primary materials in one of the three following ways:

- a. Players who already hold STAR may simply begin farming primary materials by staking it to various primary workshops.
- b. Players who do not have STAR but hold other specific crypto currencies may stake these MetaSpace-approved currencies, such as BTT-STAR-LP token, to the relevant primary workshop to begin farming primary materials.
- c. For players who do not hold other specific crypto currencies must purchase STAR from other players from various STAR-listed exchanges, such as JustSwap, and stake it in primary workshops and begin farming.



3. Advanced Materials Processing

After players have farmed enough primary materials, it's time to process them into advanced building materials! Primary materials need to be transported to various space factories which require a processing fee before processing primary materials into building materials. However, the number of materials every factory can process at one time is limited. If all production lines are currently full, players will have to choose from the 3 following options:

- a. Simply wait for the current production to finish before processing new materials.
- b. Switch to an idle factory. However, the number of factories available is also limited; if all factories are currently unavailable, then waiting for one to free up is the only option.
- c. Players who own space plots may build their own factories and choose whether to open the factory to other players and generate STAR from the fees (amount charged decided by the owner) or simply use it to process one's own materials.

Extra benefits for helpers

Because the production lines are limited, the material owner will have 5 minutes after the process is done to claim their advanced material. After 5 minutes, anyone can help the material owner claim the advanced material. The owner will receive 90% of the advanced material and the player who helps to claim will receive the rest 10%.

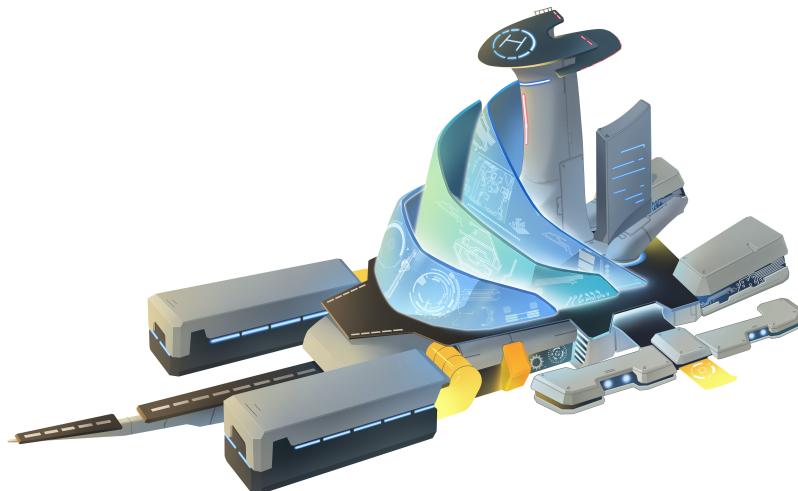
4. Space Building Construction

Levels of Property

After accumulating enough materials, players can construct MetaSpace residential properties to passively generate STAR from rent. Properties can be constructed on all space plots across galaxies. MetaSpace Residential properties are divided into 5 categories, as listed below:

- **Planet Cave**
- **Outer Capsule**
- **Orbit Garden**
- **Space Manor**
- **Battlestar**

Each level of property requires various amounts of each building material. Additionally, each level of property requires varying sizes of space plot to build. Rental yields increase exponentially with each additional level.



Property Upgrades

Players who already own properties but want to upgrade them to a higher level, must demolish the original property before constructing a new one. Demolishing a property will return 50% of the construction materials required to build it whilst burning all associated facade NFTs.

5. Collection Service

The addition of collection services brings an extra element to the multileveled gameplay of MetaSpace. During the rental collection periods of properties, other players may offer collection services after the protection period ends, consuming a Collection Card each time the player completes a service. Protection Time depending on each Property:

- **Planet Cave: 5 mins**
- **Outer Capsule: 5 mins**
- **Orbit Garden: 5 mins**
- **Space Manor: 5 mins**
- **Battlestar: 5 mins**

Obtaining a Collection Card

- a. Every reward period (14 days) we will have 20000 Collection Card to be sold in our Marketplace . These cards will be open for sale randomly in the period.
- b. We will have all kinds of community activities. We provide 40000 Collection Cards as the reward. Our active community members can win these Collection Cards.
- c. Players will have more ways to obtain Collection Cards as developments keep on. Also, the numbers will be adjusted as the market changes. After our game turns to be stable, our **DAO** system will decide how we will adjust the number.

How to use Collection Card

If player A has a Collection Card, then player B's property has not claimed the income after 8h and 8h 5min, and then A can use the collection Card and pay a small amount of STAR to obtain **50%** of the rental income of B's property.

6. "Star War"

Background Story

During the first inception of outer space, 7 star lords descended from the universe and gave this world a name: MetaSpace. These 7 star lords had then split this universe into 7 great galaxies with their insurmountable power, creating countless resources and the very first civilizations in the process. From then on, each galaxy had its own lord, protecting and governing their space lands, people and resources. Although star lords are almighty and immensely powerful, each held different ideologies and abilities, often leading to clashes and violent holy star wars. The only way of communication between mortals and lords is passing down a heavenly decree by the galaxy's lord each time a star war occurs, wishing the

people of the galaxy to contribute resources and faith to strengthen their power and win the war. The victorious lord will take the defeated lords' resources to give back to his own people.

Star War Rules

- Star War is held over a 28-day time period, and each round will involve all 7 galaxies.
- Once the war begins, players in all galaxies have 10 days to contribute to materials to support their lord; these 10 days form the ‘Battle Stage’ of the Star War.
- The lords accept any of the following as contribution: primary materials, advanced materials and STAR Token. Players who make a successful contribution will receive **Faith Points**.
- Different types of material hold varying degrees of quality, thus weighing differently. Therefore, Faith Points will be returned to the contributor according to the weight of the contributed material.
- At the end of the 10-day ‘Battle Stage’ , every lord’s victory and defeat will be determined based on the total number of points accumulated from their respective galaxy’s contributions.
- In the holy war, there is no mercy. The last 3 galaxies on the Faith Ranking will have their property rental income reduced by a brutal 80% (rank 7), 60% (rank 6) and 40% (rank 5) respectively for the next reward period (14 days).
- The lords of the top 3 galaxies on the Faith Ranking will generously give 20% (7th place reduction to 1st place), 10% (6th place reduction to 2nd place) and 5% (5th place reduction to 3rd place) of the plunder. The reward period after the end of the war period is known as the distribution period. Players who have participated in the Star War during the first 10 days of the distribution period and have Faith Points are free to decide how many Faith Points to invest in the distribution of the reward proceeds. Faith Points invested will not be retrieved. After 10 days, the rewards will be distributed based on the ratio of the Faith Points invested to the total Faith Points for the round.
- All the contributed STAR and 90% of the contributed materials will be burnt, rest 10% will be rewarded to each galaxy top contributors. The reward rules will be as follows: 1st:5%,2nd: 2%,3rd: 1%. Rest 2% will be shared by 10 of the contributors picked randomly.

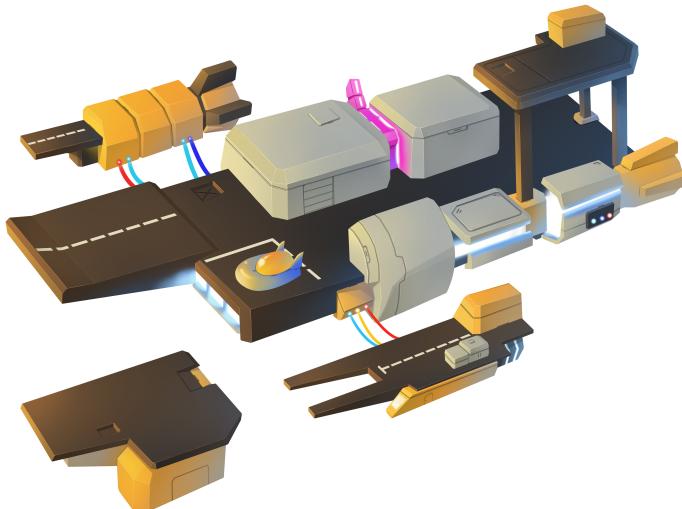
Note

Occasionally, the victorious Lords (Rank 1-3) in the Star Wars will feel benevolent and generous, offering rewards to players who had made the greatest contributions in the previous Star War, in addition to basic rewards.

Game Elements

1. MetaSpace Residential Properties

After constructing and owning a property, players can earn **STAR** by collecting rent. Each property will have a rental waiting period of 8 hours. After the 8 hours rental waiting period, the system will provide 5 minutes of rent protection in which only the owner can collect the rent. After this rent protection period passes, other players are then able to provide rental collection services to receive a 50% share of the collection.



5-Level Properties (TRC-721 NFTs)

- Planet Cave, Outer Capsule, Orbit Garden, Space Manor, Battlestar

How can I obtain properties?

- a. Property Construction using materials (crystal, gas, gold, diamond, hydrogen, radium, etc.)
- b. Market Purchase
- c. OG mystery boxes in early stage public sales (mystery boxes are limited to planet cave, outer capsule, and orbit garden only. Higher levels of property can only be obtained through construction or purchase)

How can I make profits?

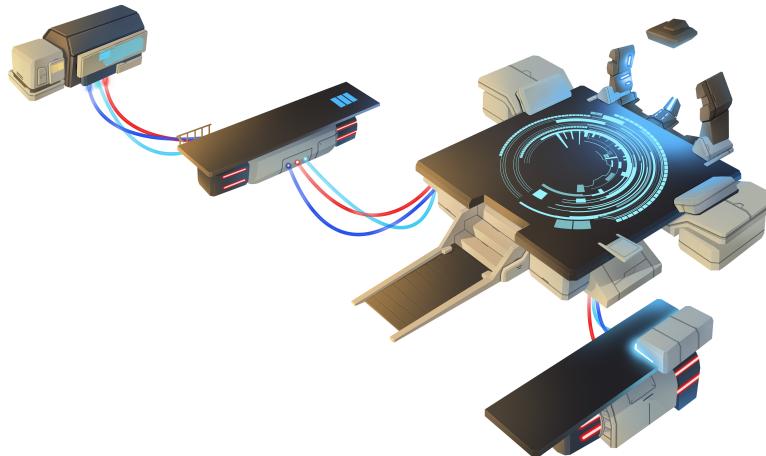
- Constructing properties on space slots within galaxies can earn **STAR** by collecting rent – amounts vary with different slots.
- Engaging in market trades.

2. MetaSpace Commercial Properties

Business Properties:

- Diamond Factories
- Hydrogen Factories
- Radium Factories
- Mines
- Shopping Center
- Space Administration
- Marketplace

Players can obtain advanced materials by processing primary materials in factories. Every factory will have 2 production lines. If the production lines are full, players will have to wait until production lines are free. If the player hasn't collected the processed material after it's completed within the allocated collection timeframe, other players will then be able to provide material collection services to **receive 10% of the collection.**



How can I obtain Business Properties

- Construction (Once players have acquired the necessary materials)

How do I make profits

- Sales of materials produced
- Collecting 10% share of advanced materials from other players

3. Space Land

In the world of MetaSpace, it provides open space, with a resourceful sanctuary in which beginning players may start to build their wealth. Space has the following characteristics:

- Holds the most diverse, complete book of primary materials and state-of-the-art processing factories.
- Infinite space size

4. Market Place

The marketplace is essentially the centre of all trade and e-commerce within MetaSpace, where you can trade the following products and many others:

- property NFTs
- Material Mystery Boxes
- primary materials
- advanced materials

5. MetaSpace Wealth Ranking

There are two important wealth lists in MetaSpace:

- Personal Wealth Ranking
- Consortium Wealth Ranking

The most important stage of MetaSpace in economic expansion comes after players have amassed enough capital fortune. This is the stage of unlimited possibilities in a player's approach to balloon their wealth rapidly:

- Continuously diversifying asset portfolios
- Attending auctions and mergers
- Merging, acquiring, or establishing businesses
- Employing staff members or finding partners to create consortiums
- Utilizing game mechanisms and financial tools

As the game is continually reiterated and developed, MetaSpace will open external Battle Arenas separate from the game world for challenging, competitive show-offs between various large consortiums.

6. The Glorious Battlestar

As the ultimate pinnacle of architecture in the world of MetaSpace, the battlestar is an ultimate symbol of peak power and prosperity.

As a pre-requisite to construct a battlestar, a player must simultaneously own all 6 kinds of materials, and form a complete landscape to unlock Land Lord permissions; only then are they able to build their own MetaSpace legacy. Battlestars harbor immense mining power and exclusive privileges.

Assets

1. Star Token

Governing token of MetaSpace, used to purchase Mystery Boxes, NFTs, and trade of currencies and various in-game items. Simultaneously, players may stake STAR to receive materials or items. For more details, see Gameplay.

2. NFTs

MetaSpace seamlessly integrates NFTs into the in-game world as a collectible asset. Players can collect MetaSpace property NFTs to change and display graphic appearances, acting as a virtual home that showcases and represents one's artistic values and unique personality. There are a plethora of residential property options, such as planet cave, outer capsule, orbit garden, space manor, and even battlestar. Similarly, each property may be paired with an exclusive musical soundtrack NFT, flawlessly combining music with virtual architecture for the ultimate display of one's elegance and distinguished taste. MetaSpace has been the first of its kind to practically employ NFTs to achieve actualized value for players and consumers, going a step beyond the traditional NFT usage of mere collection and exchange.

For creators of NFTs, MetaSpace provides a practically unlimited stage to express their talents and self-actualize. As the MetaSpace world seamlessly integrates real-world geolocations, many elements essential to the physical world will be present in the game, supplying plentiful materials and inspiration for both experienced and aspiring artists. As the virtual world is, after all, derived from the real world but rising beyond it; having a firm grasp of the market and other users in the virtual world opens up a kaleidoscope of new and upcoming creative avenues for any creators. MetaSpace thereby offers a more inclusive, holistic, and open virtual world experience. Creators will be recognized, accepted, and admired whilst they mark their footprints into the infinite metaverse.

MetaSpace NFTs include:

- Planet Cave
- Outer Capsule
- Orbit Garden
- Space Manor
- Battlestar

- Crystal
- Gas
- Gold
- Diamond
- Hydrogen
- Radium
- Skins
- Music
- Mystery boxes

Assets Model

1. Processing Model

Factories can be used to process advanced materials. Higher level factories mean higher success rates, more processing capacity per turn, faster processing speed and cheaper processing cost. The factory statistics and upgrade requirements are as follows:

Diamond Factory						
Level	1	2	3	4	5	6
Single Processing Limit	4000	4500	5000	5500	6000	7500
Success Rate	0.4	0.475	0.5	0.55	0.6	0.75
Processing Time/Piece (s)	0.12	0.09	0.06	0.054	0.051	0.03
Processing Cost/Piece (STAR)	0.00011	0.000105	0.0001	0.000095	0.00009	0.00005
Production Line Limit	2	2	3	3	5	10
Upgrade amounts (consume Crystal)	100000	500000	1000000	5000000	50000000	

Hydrogen Factory						
Level	1	2	3	4	5	6
Single Processing Limit	5760	6480	7200	7920	8640	10800
Success Rate	0.24	0.285	0.3	0.33	0.36	0.45

Processing Time/Piece (s)	0.133333	0.1	0.06667	0.06	0.056667	0.033333
Processing Cost/Piece (STAR)	0.000306	0.000292	0.00028	0.000264	0.00025	0.000139
Production Line Limit	2	2	3	3	5	10
Upgrade amounts (consume Gas)	54000	270000	540000	2700000	27000000	

Radium Factory		1	2	3	4	5	6
Single Processing Limit	12000	13500	15000	16500	18000	22500	
Success Rate	0.16	0.19	0.2	0.22	0.24	0.3	
Processing Time/Piece (s)	0.144	0.108	0.072	0.0648	0.0612	0.036	
Processing Cost/Piece (STAR)	0.00033	0.000315	0.0003	0.000285	0.00027	0.00015	
Production Line Limit	2	2	3	3	5	10	
Upgrade amounts (consume Gold)	50000	250000	500000	2500000	25000000		

2. Construction Model

There are 5 levels of properties in the game, and each level of property requires various types and amounts of materials. The higher the level of the property, the more materials are needed, and of course the higher productivity(higher mining power means higher rent revenue per unit of time).

Model Types	Planet Cave	Outer Capsule	Orbit Garden	Space Manor	Battlestar
Crystal	4800	9600			
Gas	7200				
Gold		5000	7500		
Diamond		2000	6000	18000	144000

Hydrogen			12600	27000	171000
Radium				12500	100000
Mining Power Range	95 - 130	475 - 650	2375 -3250	7600 - 10400	66500 - 91000
Rent Generation Time	8 hrs	8 hrs	8 hrs	8 hrs	8 hrs
Protection Time	5 mins	5 mins	5 mins	5 mins	5 mins

Tokenomics

1. Distribution

Category	Amounts	Percentage	Condition
Total Supply	2,000,000,000	100%	
Play To Earn	1,500,000,000	75%	
Institutional Investor	100,000,000	5%	Same conditions as the Seed Round
Seed Round	100,000,000	5%	10% released on 1 May 2022 24% released on 1 August 2022 24% released on 1 November 2022 21% released on 1 Janunary 2022 21% released on 1 March 2023
Marketing/Operation	80,000,000	4%	
Team(R&D, Advisor, etc)	200,000,000	10%	Locked for 1 year following a set rate of release over 2 years.
Initial Liquidity	20,000,000	1%	

2. Reward Pool Distribution

Every reward cycle lasts for 14 days. Total rewards for the next cycle are based on game progression and determined 3 days before the end of the current cycle. To ensure stability, the MetaSpace team will determine and announce the reward amount for each reward cycle for the first 6 months. The **DAO** system will then begin operation when the game has successfully stabilized and all community members will vote to decide the reward amount for future reward cycles.

FAQ

What exactly is MetaSpace?

MetaSpace is a play-to-earn capital operation game powered by Tron blockchain, and integrates outer space geography into the game world. Players may invest in various assets such as space residual properties(NFTs), building materials, factories, mines, plus many more. Players can operate businesses whilst making new friends, establish wealthy and powerful consortiums and realize their ultimate financial fantasies.

Why is MetaSpace special?

- MetaSpace masterfully encapsulates the concept of play-to-earn in combination with blockchain technology. It doesn't matter who you are in the real world, MetaSpace will always provide you with a truly rewarding experience and a plethora of scenarios to utilize and showcase your inner genius.
- Vast in-game opportunities for capital accumulation, with few pay-wall obstacles and all players can start the game from scratch without significant out-of-pocket expenses.

Can in-game income be turned into real cash?

Yes, the STAR token can be converted into any crypto through exchanges, such as JustSwap.

How much can I earn from MetaSpace?

Your game income depends on how much time and capital are invested in, and how you operate it. Multiple factors and each decision that you make will influence your degree of income.

Are there any risks involved?

Cryptocurrency are always subject to high volatility and often ‘extreme’ price fluctuations, so please invest cautiously. However, MetaSpace proudly provides low-risk stable coin mining projects and the creation of NFTs to turn your creative genius into massive fortunes with no risk involved.

When will MetaSpace be launched?

Game will be launched in Q1 of 2022. More functions and elements will be iterated and integrated into the game as development continues (More details can be found on ‘Roadmap’).

Do I need a cryptocurrency wallet to play MetaSpace?

Yes, players must hold at least one form of cryptocurrency wallet. Your wallet is used to receive game items such as NFTs, make and receive payments, as well as receiving airdrop rewards. TronLink is always recommended.

Is MetaSpace Pay-to-Play?

No, there are several ways you can enjoy MetaSpace. If you want, anyone may enjoy MetaSpace entirely free of charge. However, players may choose to invest depending on the degree of returns they seek as there are various purchasable items and tools that save the player's time or increases gameplay profits.

How would MetaSpace be governed?

The DAO system will be integrated into MetaSpace to effectively allow community management of the game. By voting, providing suggestions and determining budgets, every holder of MetaSpace's in-game token - STAR, can participate in the DAO and be involved in game management and governance.

What DeFi functions does MetaSpace include?

- NFT: The creation and usage of Non-Fungible Tokens
- Insurance: Differing from the traditional insurance industries, MetaSpace utilises blockchain technology to provide a more effective compensation system.
- As technology develops, more ways of gameplay will be added to the game, making the