

Welcome to  
*Metaverse Dubai*



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# Abstract

Being known as “the city of innovation”, Dubai has been regarded as one of the fastest-growing cities that has transformed from a fishing village 30 years ago to a global economic and real estate hub. Unlike other emirates, Dubai’s oil reliance only account less than 1% of its GDP, while economic diversification and knowledge-based economy are the accelerator of growth in the present day. Its government has put a strong emphasis on technology sector encompassing ITs, Artificial Intelligence, Augment & Virtual Reality, Robotics, and Blockchain.

In terms of Blockchain, Dubai has emerged as the world capital of blockchain development. It has experienced 24% growth with over 24 blockchain use cases currently being implemented, which cover eight industries such as finance, real estate, and tourism. The success of the development is credited to its government’s ambition to ensure business-friendly environment for startups and open mindedness towards the adoption of new innovations.

A Plus Fintech Pte. Ltd. recognized this exciting opportunity to expand a sequel to the success of Metaverse Thailand. Metaverse Dubai platform, the second chapter of Metaverse Global series, has been launched to ensure mass adoption of META Chain and to create wider-scale economic system and mechanisms for addressing legacy issues arising from gaming and tourism industries. This whitepaper provides the fundamental concepts, functions, economy of Metaverse Global as well as demonstrates insightful differences of Metaverse Dubai.

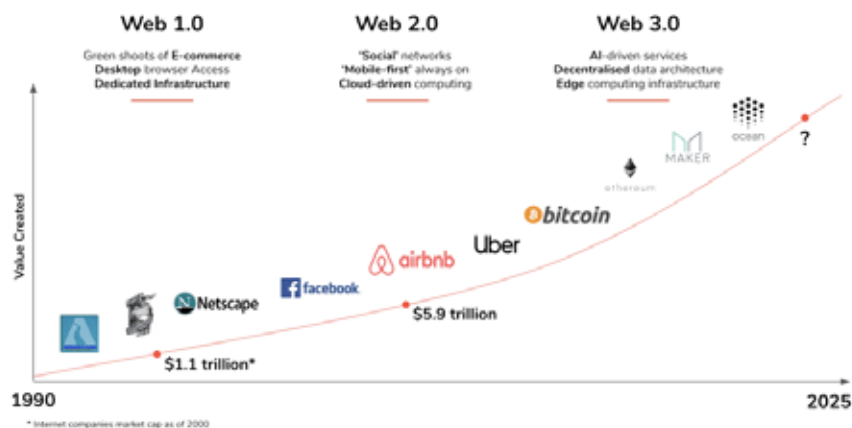


# Market Analytics

## The Evolution of Internet

Nowadays, the internet has been indispensable in our daily lives. It affects and benefits people in numerous ways. One of its distinct attributes is to enable people to virtually connect with each other. The internet has developed since its advent and it can be divided into 3 main eras.

### The Evolution of the Web



Source : DEV Community

### Web 1.0

The characteristic of web 1.0 is static meaning that the information is presented in one-way manner by creators. Users are only allowed to search and read the content while there are no room for interaction such as comments between the users and the creators of websites. Centralization plays a crucial part in terms of the nature of data and how it is stored.

### Web 2.0

Web 2.0 refers to the read-write web. It strengthens 1.0 web by allowing users to participate in content creation and interact with other users. Some of the popular social media platforms are facebook, youtube, and twitter. Even though users can generate contents and the nature of data is decentralized in these platforms, the owners of the platforms often own of such data. Therefore, it could be said that centralization still applies to the storage and the communication of data.

### Web 3.0

It is difficult to define what Web 3.0 really is since it is relatively new and the society is in the process of creating this paradigm. However, one noticeable difference is the degree of decentralization that extends to the storage of data. Blockchain technology including NFTs, DeFi, and Metaverse are important blocks in this paradigm that empower users to "own" the data and benefit or monetize from it.



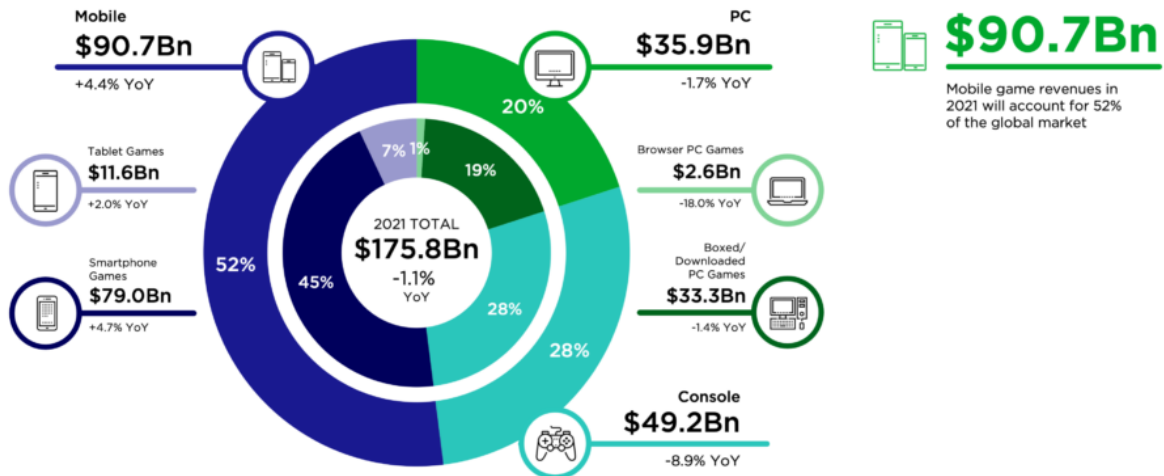
## Gaming Industry Outlook

Gaming industry is one of the fastest growing industries that supersedes other entertainment-related dominances such as sport and movie. With the COVID-19 pandemic and lockdown measurers, people has now spent time at home and become more familiar with new digital worlds. In 2021, the global gaming market worth around 170 billion USD and is expected to reach 300 billion within the next five years.



### 2021 Global Games Market

Per Device & Segment With Year-on-Year Growth Rates



Source: ©Newzoo | Global Games Market Report | April 2021  
newzoo.com/globalgamesreport

Source : Newzoo Global Games Market Report

Asia has become the largest gaming market with China accounting for 49 billion USD. North America is the second largest region that is contributed by the advancement of gaming technology specifically augmented and virtual reality. Statically, 3 out of 4 Americans plays video games and In 2021 its market is worth around 30 billion USD<sup>ii</sup>.



# The World's Top 10 Gaming Markets

Estimated revenue of video games per country (in billion U.S. dollars)



As of June 2021

Source: Statista Digital Market Outlook



statista

Source : Statista Digital Market Outlook

The revenue streams of gaming industry derive mainly from four sources, namely, hard ware, software, in-game purchases, and advertising. Presently, In-game purchasing is becoming the focusing aspect of gaming industry. Basically, it refers to the purchase of virtual items or additional contents usually in F2P games that will enhance user experience. This source of income contributes up to almost 80% of the total revenue and its value is increasing most rapidly among other sources of incomes.

# Problem Statement

Metaverse Dubai aims to be the virtual center for innovative property development that tackles sets of problems in traditional gaming and tourism industries.

## Gaming

In spite of such promising growth in gaming industry, traditional gaming still pose legacy issues arising from centralization. The application of blockchain and Non-fungible tokens (NFTs) can address these problems and provide a gateway to endless opportunities in gaming industry. Main problems in tradition gaming model are lack of true ownership, insecure storages and exchanges, and one-sided governance.

### Lack of ownership

Generally, majority of traditional games operate in centralized models meaning that the developers own all of related-data in the games from items, digital currency and collectibles. On the contrary blockchain-based games enable players the true ownership of assets via NFTs. They are permanent meaning that as once they are created, they exist on blockchain forever. This application will increase engagement and creativity of players in the game as they know that they can truly develop something that will not be removed and can be traded on the secondary markets.

### Insecure storages and exchanges

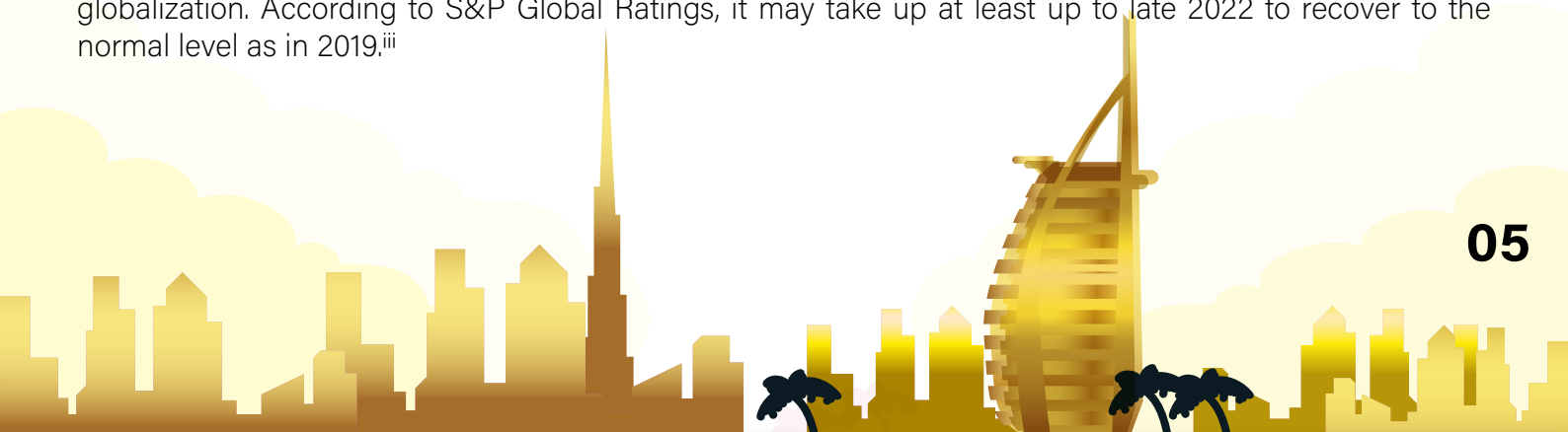
Tradition online games often operate on centralized servers. The data collection in centralized way is invulnerable for hackers to attack or steal virtual game assets of players. More importantly, play-to-earn gamers in traditional games usually make their earnings by building a character to be more powerful, acquiring special items and collectibles for the purpose of selling such belongings to another player. However, they often rely on external exchange platform or switching account method which usually end up in scam problem. NFTs provide a solution as they have true ownership and can trade the assets on multiverse platforms.

### One-sided governance

Traditional online gaming do not usually offer players much participation in the determining gaming direction. On the contrary blockchain-based games can spawn a model that offers players to collaborate with developers via voting right feature that is based on the number of tokens. For this reason, developer can create more exhilarating experience according to players' needs.

## Tourism

Dubai is known for its architectural wonders such as Burj Khalifa that attract millions of travelers. Its tourism industry is a key growth that accounts almost 20% of its GDP. Despite its effective responses to the COVID-19 crisis and reopening international tourism measures, the recurring waves of COVID-19 and the fear of international travelling shrank about 10% of the industry revenue in 2020 as the city heavily relies on globalization. According to S&P Global Ratings, it may take up at least up to late 2022 to recover to the normal level as in 2019.<sup>iii</sup>



# What is Metaverse Dubai?

Modern technology has blurred the line between physical and digital worlds. With the accelerated development of technology and the COVID-19 pandemic force, the ways people interact and communicate have been increasingly depending on online channels. Originally, the term "Metaverse" was first invented in Snow Crash, 1992 sci-fi novel by Neal Stephenson. Today, it proved that a 30-year-ago fantastical concept has become evident. Virtual spaces in digital environment, such as, online games, social medias, and virtual reality are indispensable in people's lives, and the digital and physical worlds are essentially intertwined. Such revolution is a gateway to limitless imaginations and opportunities to business world.



Metaverse Dubai is a second sequel large-scale online NFT platform of Metaverse Global series. It shares common essential features and foundation with its predecessor Metaverse Thailand. Basically, it operates on META chain and requires META token which is a governance token to be used as processing fees for transactions made on both Metaverse Dubai and Metaverse Thailand platforms. In these 3D virtual environments, users are able to visit, buy, sell, or customize lands, or to vote, to interact and to play classic games with friends. As the virtual maps are based on real-world environments, users are able to extend their real-world businesses in this virtual worlds through the true ownership of digital lands.

Unlike Metaverse Thailand's virtual environment, Metaverse Dubai's map is made of Dubai city landscapes. It features prime areas of Dubai starting from Dubai Downtown area during the first phase. Metaverse Dubai also depicts itself as the virtual center of innovative property development.



# Strength characteristics of Dubai

Situated on the southern coast of the Persian Gulf, Dubai is regarded as one of the most unique and best cities in the world. Its recognition derives from skyscraper and high-rise buildings, artificial islands, and luxurious culture. There are numerous reasons that make Dubai a virtual center for property developers in Metaverse Global.

## Innovative and advanced architecture

Dubai has experienced an extraordinary growth in architecture development. Its ultra-advanced buildings and projects have attracted real estate transactions and made itself one of the most modern cities. Some of architectural wonders include Burj Khalifa, palm-shaped islands, Cayan Tower, and Burj al Arab. The city continues to add more innovative and ambitious projects in the upcoming years. Dubai is also the host of World Expo 2020, a platform for countries around the world to showcase the greatest innovations.

## Openness to diversity

Multiculturalism is a fundamental element to build a strong community. We believe that this value apply not only to physical world but also to metaverse community. Dubai is a home for expat community who have different language, religious, and cultural heritages. There are almost 200 nationalities living in Dubai and 90 percent of its population have been born outside the city. For this reason, there are many different holidays and events for people to celebrate.

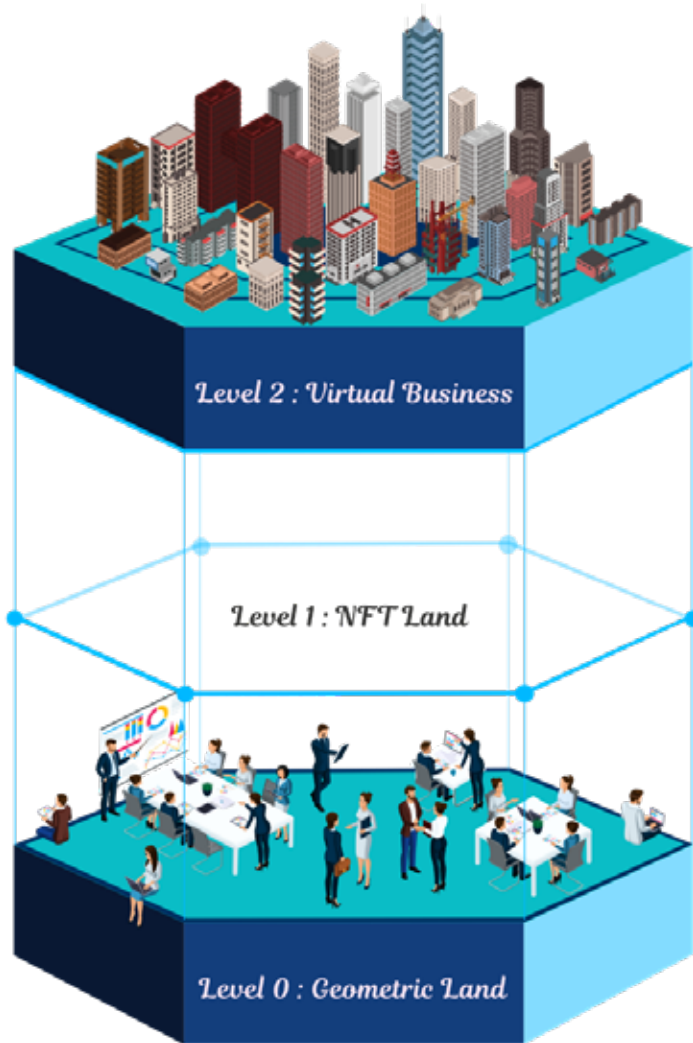
## Luxurious lifestyle and property market

Dubai is one of the most expensive city in the world. The idea of 7-star hotel and Lamborghini police cars actually originated from this city. Owing to its innovative and incredible attractions, there is a high demand of properties in Dubai leading to the rise in prices on the average of 1.3% monthly amidst the COVID-19 pandemic.



# Levels of Metaverse Dubai

Metaverse Dubai can be broken down into three level as follows;



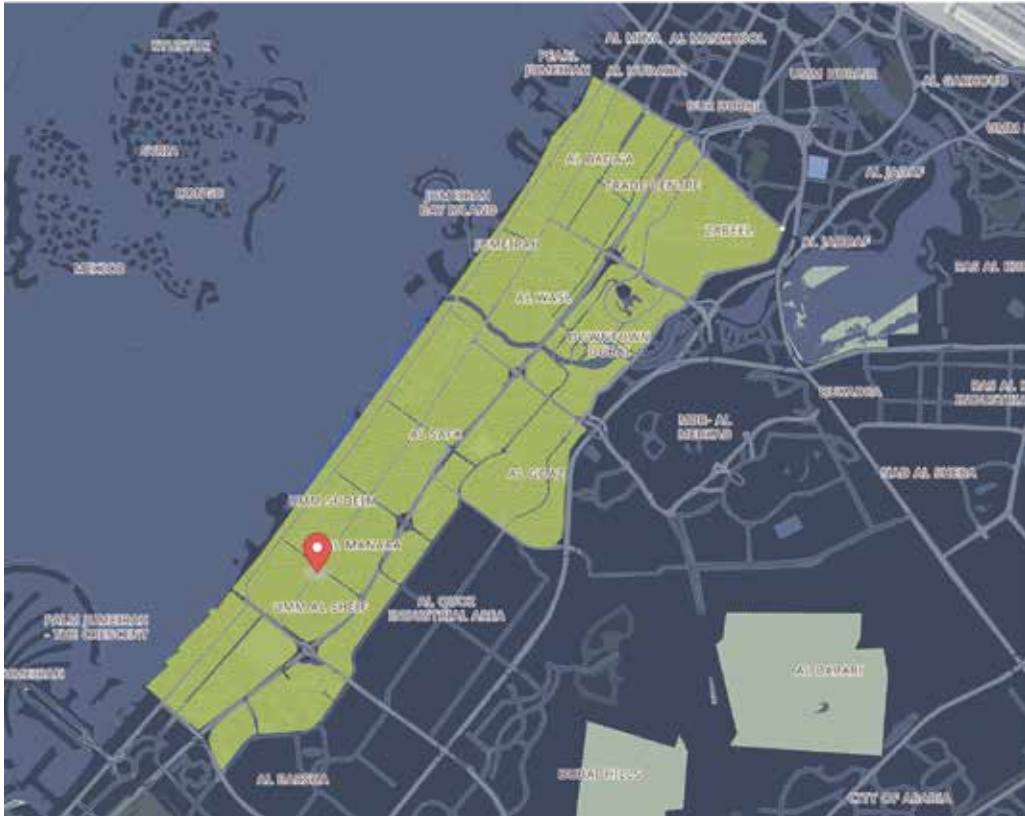
*Can a game change reality?*



## Level 0 : Geometric Land

In Metaverse Dubai, the map is made up of digital representation of Dubai city prime areas . The areas are arranged in geometric manner with the size of 3071 Sq.M hexagon per block. The 1st phase of Metaverse Dubai is based on a map of Downtown Dubai with 220,000 Hexes and will continue to expand to other areas in the near future. User can own, sell, buy, or develop Hexes.





Downtown Dubai (220,000 Hexes)

#### Level 1 : NFT land

Unlike fungible assets such as money that is interchangeable, Non-fungible tokens (NFTs), is a unique and irreplaceable digital assets. They could vary, for example from artworks, music, videos, to digital lands. NFT lands embrace blockchain technology enabling them to be tokenized and creating certificate of ownership. It is designed to prevent forgery and duplication problems of digital files on the internet. Interestingly, unlike physical land ownership, virtual land ownership is inherently decentralized and secured which mean that safe transaction paradigm can be obtained via blockchain without a need for intermediaries between buyers and sellers.

#### Level 2 : Virtual Business

Metaverse Dubai goes beyond just pure pleasure platform as it enables users to develop their physical-world businesses through the utilization of land ownership and major features including Hex editing and VR/AR technologies. For instance, users can display their virtual flagship stores, host events, and advertise their products on their virtual estates.



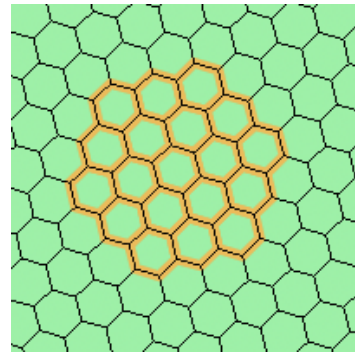
# Major Features

## Editing Hexes (Merge/Split/Display 2D&3D)

Users are able to merge or split connected hexes. For instance, in the case users want to sell a part of land, they can split it. Moreover, Metaverse Global empowers users' creativity by allowing them display or advertise their digital arts, images, and NFTs both in 2D and 3D models within their hexes. The adjacency and size of lands affect the constraints of the customizing ability.

Automatic display feature of 2D image

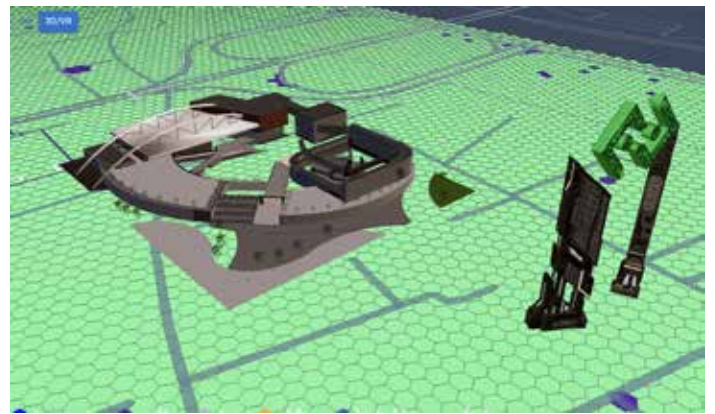
Size	Number of Grid
1 Grid	1
1 Ring	7
2 Ring	19
3 Ring	37
4 Ring	61
5 Ring	91
6 Ring	127
7 Ring	169
8 Ring	217
9 Ring	271
10 Ring	331



2 Ring = 19 Grid



2D Image



3D Model



## Virtual Reality (VR)

In Metaverse Dubai, users are able to experience Virtual Reality (VR) through the possession of VR glasses, computer, or mobile phone. Occasionally, Music Festivals and special events rendering 4G Multi-location cross platform VR technology are hosted and allow participants to select their concert seats, enjoy real-time handshaking or gift sending moments with their favourite artists.

The 4G VR Multi-Location Cross Platform enables both artists and audiences from different locations in physical world to simultaneously share a virtual experience of live concert. Only an area of 2 cm<sup>2</sup> in physical world is required for audiences to savor real time interactions such as gaming and wandering around with the artists, and immerse in live virtual performance. It is the harmony between the physical and virtual world.

## Augmented Reality (AR)

AR technology is an interactive 3D experience that enhances real-life environment with a digital visual elements. With the current mobile phone features, users can enjoy the benefits from such technology with MetaverseDubai as they can experience a virtual tour of digital estates and architectures, which are placed over images of the real world, through an AR application.

## Vote

In Metaverse Dubai, Voting feature is available at the communal area called "Town hall". The feature helps to stipulate a more vibrant and diversified experiences in the governance of the game by using META Token to vote.



# Tokenomics

## Hexes

Hexes refer to the digital representation of Lands on Metaverse Dubai. They are non-fungible tokens (NFTs) that can be resold, developed, and exchanged between users. Users are able to own several adjacent hexes in order to build larger estates, and sometimes it leads to the increase of land values. The hexes in Metaverse Dubai has different size and supply amount from Metaverse Thailand's.

Total supply : 220,000 Hexes

Size : 3071 Sq.M

## Distribution of Hexes

The image is a promotional poster for Metaverse Dubai. At the top, it features the Metaverse Dubai logo and the text "BE A PART OF OUR NEW JOURNEY BUILT FROM THE REAL-WORLD MAP OF DUBAI PRIME AREAS". Below this, it states "Metaverse Dubai | World's First Mega Virtual City" and "220,000 blocks available for purchase!". The poster is divided into three sections under the heading "Our Schedule":  
1. **Snapshot MVP Coin for Top Holders (BSC chain)**: 21st December 2021 at 10:00 a.m. (GMT+7) Bangkok Time.  
2. **Exclusive Sales**: MVP Coin Whitelisted Holders, 21st December 2021 at 12:00 p.m. (noon time) and 08:00 p.m. (GMT+4) Dubai Time, 30 minutes each session.  
3. **Public Sales**: From 22nd December 2021 onwards at 12:00 p.m. (noon time), 05:00 p.m. and 08:00 p.m. (GMT+4) Dubai Time, 30 minutes each session.  
At the bottom, there are social media links for Website, Twitter, Telegram, and Facebook.

The first distribution round is only available for MVP coin holders appearing on the whitelist on 21 December, 2021 followed by the public sales. The public sale participation will be divided into three sessions at 12:00 pm, 5:00 pm and 8:00 pm (GMT+4) and each session will be held for 30 minutes. However, it is worth noting that the participants cannot purchase exceeding than 1000 Hexes.

Daily Public Reservation From Dec 22, 2021 onwards

Week	Date	Session	Minimum Amount	Time Limit/ session
1	22-28, Dec 2021	12:00 pm, 5:00 pm and 08:00 pm [GMT+4]	9 hexes per purchase	30-minute limit per session
2	29 Dec 2021 - 5 Jan 2022	12:00 pm, 5:00 pm and 08:00 pm [GMT+4]	7 hexes per purchase	30-minute limit per session
3	6-13, Jan 2022	12:00 pm, 5:00 pm and 08:00 pm [GMT+4]	5 hexes per purchase	30-minute limit per session
4	14-21 Jan 2022	12:00 pm, 5:00 pm and 08:00 pm [GMT+4]	1 hex per purchase	30-minute limit per session



## In-game Currencies

Users are able to obtain hexes through in-game currencies: MVP Coin, and BUSD. However, MVP coin prevails over the other currencies and is considered privileged method of purchasing first-hand virtual lands. However, the lands can be resold and traded in which the prices are determined independently by the users.

## META TOKEN

META Token (META) is the governance token that powers transactions on the META chain and the Metaverse Dubai ecosystem. It offers numerous benefits for both developers and users by allowing them to create more inclusive experience and transact with games, application, or smart contract on the Meta chain network. META Token can is tradeable and transferrable between users.

Its utilities are outlined below:

- Transaction Fee (Gas) on META Chain

Gas Fee refers to the payment of computational effort used to validate and execute transactions. META Token is not only used to fuel asset transfer but also to achieve any smart contract and dApp transactions on Meta Chain.

- Voting on the governance of META Chain

- Voting rights on the governance of Metaverse Dubai economy.



**M E T A**



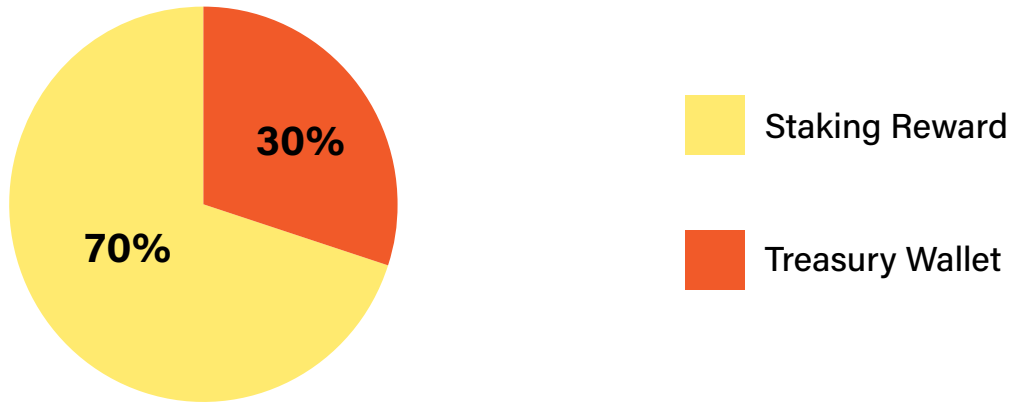
## META Token Supply and Allocation

Token Name: META Token

Token Symbol: META

Total supply = 100,000,000 Token

The total 100 million tokens are organized as follows:



Land Staking is the process of delegating or locking up Hexes to earn rewards. 70% of the supply is set aside for yield farming and rewards. The remaining 30% of the minted tokens will be automatically sent to the Treasury wallet for further development and marketing.

## Staking rewards and Inflation

META Chain distributes a fixed supply of META tokens each year as rewards to stakers. The number of rewards is higher in the first two years compared to the remaining years. The supply will be reduced over time to ensure immunity to inflation and to keep the token appealing to users.

Year	Emission Rate Per Block (META)
1	96,000
2	47,945
3	31,680
4	15,840

# META Chain

Meta Chain is an open-source decentralized transaction public chain that provides a secure infrastructure for developers to create decentralized applications as well as ensure efficient trading of blockchain values and digital assets. It is also designed to be the sustainable backbone network that supports the functions and transactions on Metaverse Dubai.

Its economic system is inherently self-sustaining due to the issuance of META coins as Governance Token that are used as a processing fee for any transactions occurred on Metaverse Dubai such as nfts exchanges and voting for the governance direction of the platform.

META coins also incentivize the participation of the community as they will be rewarded to node validators who contribute in verifying transactions and adding confirms verification to the distributed ledger. META coins along with the attractiveness of Metaverse Dubai platform will be the crucial part that will encourage not only the users but also validators to join this ecosystem, leading to a steady economic system.

## META Chain Mainnet

Consensus Protocol: Clique (Proof of Authority)

Chain Id: 17

Block Period: 7 second

RPC endpoint: <https://rpc.metachain.asia>

WS endpoint: <wss://ws.metachain.asia>

Block Explorer: <https://exp.metachain.asia>



# Security and Consensus

The design of consensus algorithms is critical in public blockchain systems because the protocol not only dictates how participants agree on the development of the blockchain but also embodies the governance model imposed on the system.

Neither a total centralization nor a total decentralization would be the correct answer, but a compromise from and balance of both would.

Meta Chain implements the Proof of Authority (PoA) consensus algorithm stating that there would not be anonymous block producers, but a fixed number of known validators (Authority Masternodes).

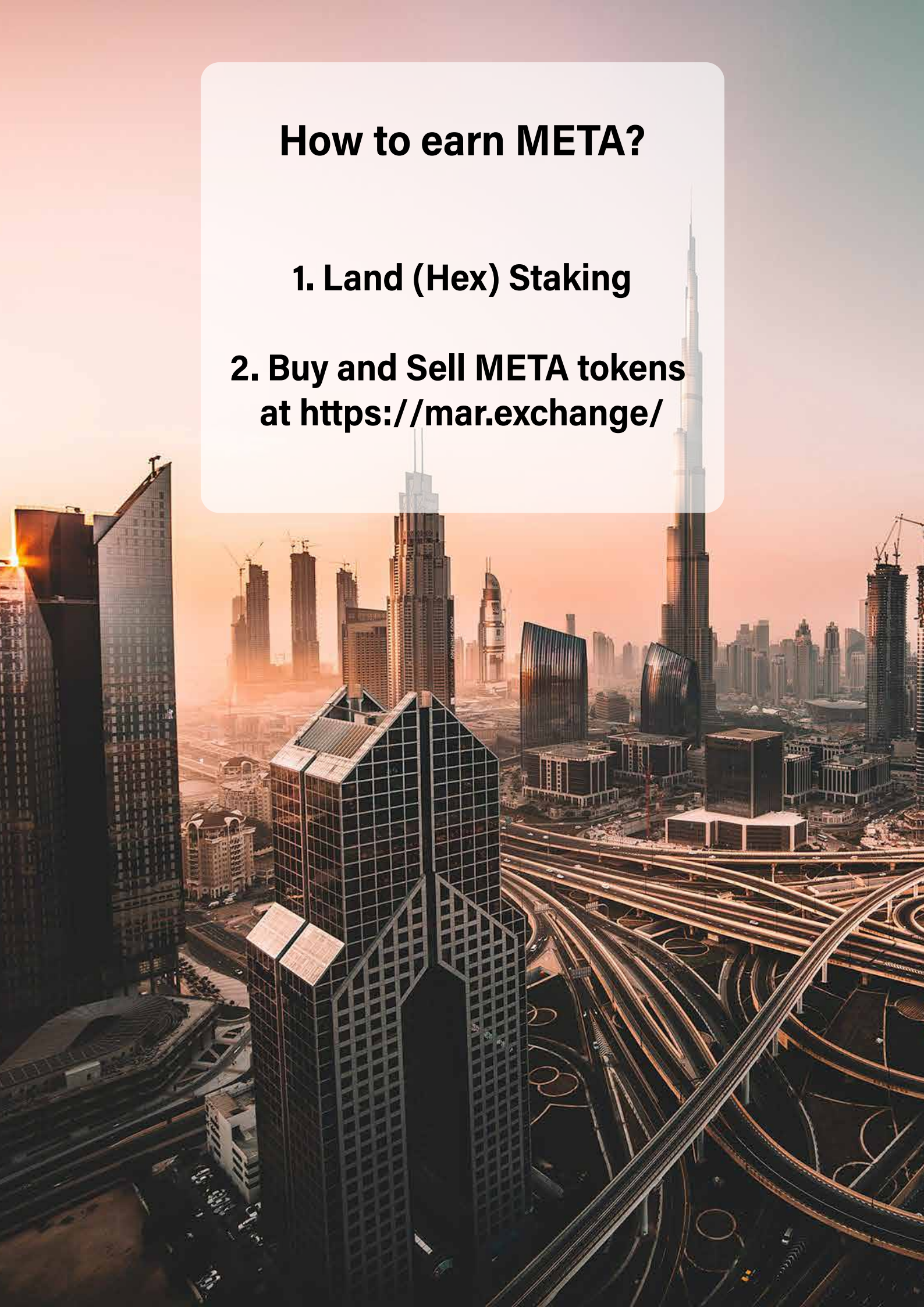
Clique (POA) uses digital signatures to seal the blocks and achieve data immutability. The consensus protocol functions when there is a certain level of trust between participants. It is based on a group of trusted nodes known as Authorities, which use a simplified messaging algorithm to outperform traditional PBFT algorithms.

In PoA, only one round of messages is exchanged between authorities, compared to three rounds in PBFT. Thus, better performance is one of PoA's claims when compared to other BFT algorithms, particularly PBFT. A PoA network can withstand  $N/2-1$  byzantine authority nodes. It can function properly when a simple majority of the authority nodes,  $N/2 + 1$ , are honest. Multiple authority nodes are permitted to propose for each block. To resolve forks caused by multiple authorities proposing at the same time, the algorithm relies on Ethereum's GHOST protocol. In comparison to PBFT algorithms, the design of PoA algorithms sacrifices consistency (forking is possible) for increased availability (faster block committal). Clique, in particular, provides eventual consistency PBFT vs. PoA analysis once the forks are resolved by the GHOST protocol. Regardless of whether there are transactions to include, PoA generates blocks at a configurable but fixed interval. Clique is a good choice for a network with parties who don't trust each other. When considering this algorithm, keep in mind that forking will occur in networks with more than four authorities. Another significant feature of Clique is that each block is sealed by only one signature - the proposer's. This is significantly different from PBFT, where at least a supermajority of validators signs each block. As a result, the data immutability guarantee is weaker than PBFT. However, because each proposer is only allowed to sign once every  $N/2 + 1$  blocks, it still provides a strong guarantee across a chain with many blocks. Given the blockchain's strong tamper proof feature, an attacker would still need to compromise the entire set of authority nodes in order to attack the data on the blockchain.

# How to earn META?

**1. Land (Hex) Staking**

**2. Buy and Sell META tokens  
at <https://mar.exchange/>**





# OUR LEADERSHIP TEAM



**Paul Wan**  
Founder,  
Chair of Morison Global



**Patrick Mahakpong**  
Co-founder,  
President of Patrick Group Holding



**Parin S.**  
Project Coordinator,  
CEO of Multitechnology Expert



**Opas Cherdpunt**  
Lead Marketing,  
CEO of M Vision PCL.



**Dome Charoenyost**  
Lead Developer,  
CEO of Tokenine



**Pongsakorn Udombua**  
GIS Developer,  
CTO of i-bitz



# Metaverse Dubai Official Partners

With a shared resource and a desire to empower people through technology, Metaverse Dubai and its partners are able to reach out to global users and will strive to work on valuable ideas to improve the innovative and decentralized experience for our users.

Patrick Group Holding is a business incubator that provides Deep Tech companies with not only financial assistance but also expertise and networks to keep them propelled. Patrick Group was founded by Mr. Prutsanai aka "Patrick," a seasoned marketer who has successfully brought many start-ups to new heights with his expertise in driving traffic, building loyalty, and growing customer base for various sectors.

UAE angels Capital Investment is a network of angel investors that came together to invest and mentor future CEOs. The UAE Angels is the first Emirati angel group established to play an active role in UAE's growing economy. It provides capital and the opportunity to present your company/ideas to an elite group of angel investors, as well as access to a network of CEOs and leading legal and financial services.

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