



METAPANDA WHITEPAPER

A metaverse with blockchain games as the entry point



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Preface-Human yearning for freedom

Since the birth of mankind, "freedom" has been branded in our genes. It is so precious, there is a poem: "Life is dear, love is dearer. Both can be given up for freedom." Throughout the development history of human civilization, its essence is a process of constantly striving for freedom. Tens of thousands of years ago, human ancestors went out of the African grassland to cope with the lack of living space and living resources, 10000 years ago, mankind started the agricultural revolution in order to get rid of the constraints of the natural output environment, the emergence of the industrial revolution in the 18th century gave mankind the freedom to change the natural environment, while the modern information technology revolution made mankind break through the limitations of time and space and realize the freedom of unlimited imagination, with the help of self-invented tools, human beings can fly into the sky without hindrance.

The rapid development of human science and technology has been transformed into real productivity, which has brought about the rapid growth of population, and then triggered the extreme contradiction between human and resources. In today's world, class contradictions are not far away, economic frictions continue to appear, and regional conflicts occur from time to time. In the final analysis, the root of everything lies in the imbalance of resources. Because of this, mankind has been thinking about the future of human civilization. Up to now, there are two exploration directions.

One is to try to break through the physical boundary and explore the vast universe. Just imagine, jumping out of the earth and looking at the universe, will natural resources still be scarce? Obviously not! Of course, the goal of space migration cannot



be achieved overnight, It is destined to be a long journey. The other direction is to extend the real world inward - to create a virtual world attached to the real world, that is, the "metaverse".

Metaverse is an immersive virtual space, which can provide us with rich consumption content, fair creation platform, reliable economic system and immersive interactive experience. Thanks to the rapid development of emerging technologies such as AI, VR, AR, 5g and blockchain, the metaverse has begun to take shape.



1. Industry Background

1.1 The Development of Technology Gave Birth to the Metaverse

The publication of bitcoin white paper in 2008 marks the birth of bitcoin's underlying technology blockchain. Its essence is a distributed ledger that integrates P2P network transmission technology, distributed storage, encryption technology, consensus mechanism and other technologies, realizes the functions of decentralization, distrust and data security, and changes the way of value transmission. In just over a decade, blockchain technology has achieved rapid prosperity by virtue of open source application ecology and innovative business model. From bitcoin to Ethereum, to DeFi, NFT and gamefi, blockchain technology has made progress step by step.

Bitcoin has realized decentralized asset recording and circulation, while the emergence of Ethereum smart contract has realized the independent execution of transactions, thus avoiding black box operation and solving the trust problem in some scenarios. DeFi can improve the efficiency, transparency, accessibility and complexity of financial infrastructure. The birth of NFT has realized the capitalization of virtual goods, It greatly improves the liquidity of assets. Blockchain technology provides a decentralized clearing and settlement platform, while smart contract, DeFi and NFT provide protection for the asset rights and transfer of metaverse. There is no doubt that blockchain technology is the "infrastructure" of the metaverse era.

5G era network focuses on ultra-high speed, low delay, massive connection, ubiquitous network and low power consumption, which can improve system capacity



and large-scale equipment connection capacity while saving energy and reducing cost. As 5G technology becomes more and more mature, it will eventually lay a new communication network, truly realize the interconnection of all things, and provide a good soil for the development of the metaverse.

Completely real, lasting and smooth interactive experience is inseparable from software and hardware presentation technology. AR / VR with 3D display, large viewing angle and high resolution makes all this possible. The landing application of AR / VR opens the door to the metaverse.

With the high-speed iteration of blockchain, the support of underlying communication technology, and the maturity of AR / VR and other technologies, a variety of technologies are integrated with each other, coupled with COVID-19's catalytic and Generation Z social needs growth, the emergence of the metaverse has become a historical necessity.

1.2 A New Chapter of Freedom

As we all know, the concept of metaverse originated from science fiction. Science fiction writer Neil Stephenson, in the "Avalanche" created in 1992, describes a network virtual world parallel to the real world, people can customize their own virtual avatars, there are no rules of the physical world and class solidification, everyone can choose freely and create an innovative life. The 2018 movie "Ready Player One" further awakened everyone's yearning for the "metaverse".

The current mainstream view holds that there are two paths for the development of the metaverse: one is from the real to the virtual, reflecting some parts of life into the virtual



space to enhance the digital experience of real life, such as the already realized cloud tourism, Yunguan Exhibition; the other is to transform from the virtual to the real, detached from the real world, reconstruct a new world through imitation, innovation, creation, etc., with a value system independent of the real world, but can have a real impact on the real world, Realizing the reality of digital experience, today's virtual idols and the Marvel Universe are the prototypes of virtual reality.

The two paths of the metaverse do not run in opposite directions, but merge with each other to eventually form a closed-loop ecology. Nowadays, with the rapid development of the Internet, especially the mobile Internet, people's lives are becoming more and more digitized and virtualized. We use mobile phones for shopping, entertainment, and travel. The boundary between virtual and reality is becoming more and more blurred. The world is undergoing profound changes.

In April 2020, the famous American pop singer Travis Scott held a virtual concert in the game "Fortnite" with a virtual image, attracting more than 12 million players around the world to participate, breaking the boundary between virtual and reality. There are more and more such cases. Affected by the epidemic, offline gatherings have become unsafe, but people have found alternatives. People hold birthday parties on sandbox games such as Minecraft and Roblox, Replace daily social interactions with fishing, catching butterflies, and visiting doors on Dongsan Island, even ACAI, one of the world's top AI academic conferences, also held its 2020 seminar on "Animal Crossing".

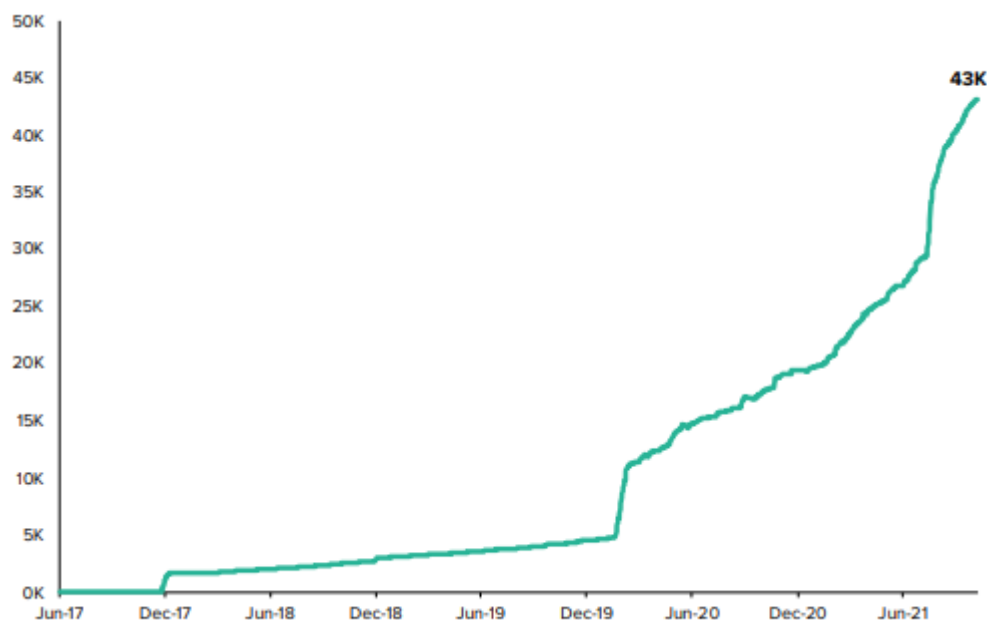
This year, with the rise of decentralized applications (DeFi, NFT, chain games, etc.), the concept of the metaverse was born, and it became popular all over the world in just a few months. Microsoft, Twitter, Morgan, Nvidia, Google, Tencent, Baidu, Huawei, NetEase and other technology and capital giants have announced their participation



in the layout of the metaverse, and Facebook has renamed its parent company "Meta Platforms". Although there is still a long way to go to realize the vision of the ultimate metaverse, the trend has begun, and the metaverse is moving from science fiction to reality.

1.3 Market Overview

In recent years, the users of the metaverse virtual world have grown rapidly. According to the report data of Grayscale Research "The Metaverse - Web3.0 Virtual Cloud Economies", as of June 2021, there are 50,000 active users worldwide (based on active wallet data) , an increase of more than 10 times compared to the beginning of 2020.

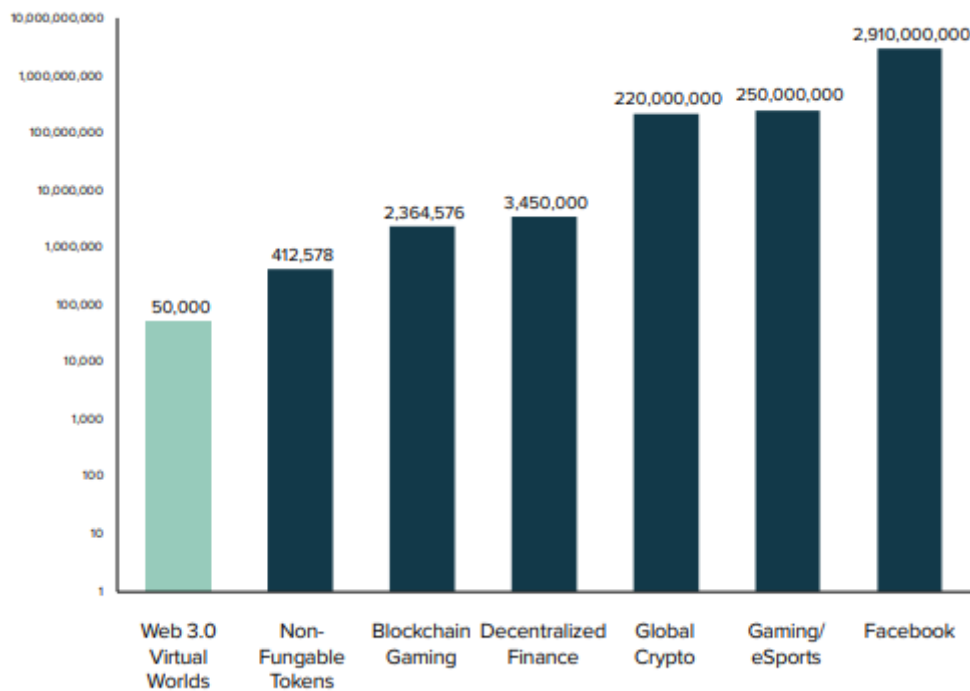


Grayscale: Global Active metaverse wallet growth trend

In addition, according to Grayscale statistics, the user data of several market segments related to metaverse are also very large, and the total sales value generated by



metaverse project has exceeded US \$200 million. The metaverse is still in a very early stage, but with the current growth trend, it is bound to usher in vigorous development in the next few years. According to Bloomberg intelligence, the size of the metaverse market will reach US \$800 billion in 2024.



Grayscale: global users per select category

In terms of investment and financing, since the first metaverse concept stock Roblox was listed on the New York Stock Exchange on March 11, 2021 (with a market value of \$45 billion on the first day), it has completely detonated the technology investment circle. As of November 16, 2021, metaverse-related companies have raised nearly \$10.4 billion in 612 deals, according to research firm Crunchbase. It can be seen that the metaverse has become a huge and fast-growing outlet market.



1.4 Industry Pain Points

Although the metaverse, DeFi, NFT, Chain Games and other sub-sectors have shown amazing explosive power, but also because the industry is in the early stage, all aspects are imperfect, and the pain points of the industry are very obvious. First of all, the quality of projects of the concept of metaverse on the market is uneven, among which there are many people who make up the numbers, as a result, only about 5% of professional investors in the market earned industry dividends, and the remaining 95% of ordinary participants lost money; Secondly, many projects have complex playing methods, and the complex game system gradually makes players lose interest. The dual obstacles of high risk and high participation threshold deter many ordinary users.

In addition, many projects currently have a highly centralized nature, and there are some serious shortcomings, such as weak infrastructure, backward security protection technology, opaque data and rules and so on, safety accidents with huge assets suffering serious losses occur frequently. The core operating mechanisms of these projects can no longer meet the high-level requirements of the metaverse age.

1.5 Birth of MetaPanda

The metaverse reposes human's good wish for freedom, which is worthy of continuous exploration and practice by all mankind. Therefore, the consensus people from the decentralized organization Dao, based on their deep understanding of blockchain, DeFi, NFT and Chain Games, and the goal of making key contributions to the cause of the metaverse, MetaPanda stepped into the game and will standing on the giant's shoulders, create a metaverse and be a "pioneer" who rides the wind and waves in the new era.



According to the metaverse research report released by Deloitte, the metaverse has six core elements, including immersion, virtual identity, digital assets, real experience, virtual real interconnection and complete social system. Cloud games, especially blockchain games, happen to have a certain degree of fit in terms of immersion, virtual identity, digital assets and complete social system. It can be said that the game provides us with a path to the metaverse. Therefore, MetaPanda chose the Chain Games as the starting point of the metaverse.



2. MetaPanda Overview

2.1 What is MetaPanda

MetaPanda is a panda themed, metaverse with Defi, NFT and Gamefi as breakthrough points. It is development based on BSC. MetaPanda organically combines games, social interaction and a variety of entertainment activities, provide a new employment model, highlighting the mapping and interaction between the metaverse and the real world.

With the further maturity of underlying technologies such as blockchain, 5g, AR / VR and the improvement of MetaPanda ecosystem, MetaPanda in the future will not be just a game or an application, MetaPanda will become a full scene digital space for people's games, entertainment, social networking, shopping and work, it has a new social system and is the key carrier of future lifestyle. On the one hand, people meet their spiritual needs through multiple interactive experiences in MetaPanda scenes, give full play to their creativity and create actual social value. On the other hand, with the help of virtual scenes, people improve the actual production efficiency of all aspects of the physical world such as industry, agriculture, transportation, medical treatment and education.

Based on the grand future vision and in the spirit of joint creation and sharing, MetaPanda is committed to creating a free, equal, open, transparent and mutually beneficial Dao organization, and working with communities, players and developers to create unlimited application scenarios for MetaPanda, so that every player can not only have fun, but also participate in the construction of MetaPanda and obtain the dividends of MetaPanda's development.



2.2 Our Mission

Continuously inject value through ecological construction and expansion, profoundly change the existing way of life and production, and create a fair and equitable metaverse value network in which everyone can create, make profits and explore unlimited possibilities.

2.3 Our Values

- **Consensus:** Consensus is the cornerstone of building a prosperous ecology. With the development of the platform, MetaPanda will gradually realize complete decentralization and autonomy, and the development of the platform is determined by user voting.
- **Co-creation:** We want to define the future of the metaverse with the community, players and developers.
- **Sharing:** We will share the benefits with the community, players and developers to achieve a better metaverse experience.

2.4 Technology Ecosystem

With the addition and activity of ecology, MetaPanda will slowly build a new decentralized financial world and gradually develop a variety of ecological agreements including Swap, Debit and NFT.

Swap protocols: Based on a voluntary pre-agreed agreement, the two parties exchange a series of virtual items or payment transactions with each other within a



certain period in the future, and ensure the openness, efficiency and safety of transactions with the most cutting-edge technical concepts.

Artfinity protocol: Use encryption algorithm to generate a globally unique digital ID card ID for the collection, and record the transaction information of the collection on the blockchain to realize anti-counterfeiting, notarization and traceability.

Debit protocol: Users can mortgage their assets in the protocol, while the lender needs to pay the corresponding interest.

NFT asset protocol: MetaPanda will continue to improve the smart contract function and use or create various standardized NFT asset protocols to adapt to different application scenarios.

2.5 Advantages of Technology Application

2.5.1 Advantages of Decentralization

MetaPanda is distributed in the Binance Smart Chain with many distributed nodes, each node is independent, and no node has mandatory central control function, which can avoid the disadvantages of artificial central control to the greatest extent. Moreover, the MetaPanda team It is only responsible for the design and optimization of the decentralized protocol algorithm, all information presented to users is the result of the automatic operation of the decentralized algorithm according to the set rules, which realizes true fairness, justice and openness.



2.5.2 Security

Based on the openness and transparency of the blockchain network, the asset information obtained by players in the game can be browsed through the blockchain, and MetaPanda provides a variety of asset security mechanisms:

- Asset operation authority: The ownership and disposal rights of in-game items are only owned by the player, and related operations can only be authorized by the user;
- Anti-cheating transaction verification mechanism: MetaPanda has designed a set of transaction verification mechanism for developers' possible cheating to prevent developers' possible cheating from the technical level;
- Iteratively updatable smart contract system: MetaPanda will regularly provide logic update and vulnerability repair of smart contracts on the chain, so as to ensure the security and timeliness of smart contracts.

2.5.3 Strong Expansion

MetaPanda has established an overall solution for decentralized game production and economic operation, which aims to connect various industrial links including developers, users and creative content, and build a global business ecosystem. The strong expansibility of the top-level design includes: blockchain interaction interface, supporting fungible asset and non fungible asset, acceptance gateway with multi chain riveting, etc., so as to lay a solid foundation for expanding the integration boundary of the project.



3. Introduction of Core Functions

In the world of MetaPanda, pandas are born randomly through blind boxes, or by mating, and each panda has a unique ID number. Pandas are divided into baby pandas and adult pandas, whether they are born in a blind box or by mating, they are baby pandas. After a baby panda is born, it will take 12 hours to grow into an adult panda, but you can use props to speed up the growth. Baby pandas have no profession, after becoming an adult panda, after purchasing and learning the corresponding secrets, they can become professional pandas, and professional pandas can reproduce if they reach S rank or above.

Professional pandas participate in work tasks and can earn UMTF tokens from their work. UMTF can be directly exchanged for BNB with no handling fee.

3.1 Blind Box

Blind boxes need to be purchased with BNB or USDT. Users can open unopened blind boxes at any time, there is no time limit, but blind boxes can only be opened one by one, and cannot be opened in batches, the gender of the given panda babies is random, the probability of male or female is 50%, and there is no occupation level. Newly born baby panda will enter the Panda House immediately. If the Panda House is full, the blind box cannot be opened.



3.2 Panda House

Each user has a Panda House, which is a place to raise baby pandas. The Panda House is divided into 5 levels: N level, R level, S level, SR level, SSR level, different levels can accommodate different numbers of pandas, namely 2, 4, 6, 8 and 12 pandas. Users can upgrade their Panda House by paying the corresponding amount of BNB or usdt, the Panda House can produce MTXM.

With the development of MetaPanda ecology, Panda House will launch more new functions to increase its value application.

3.3 Professional Panda

Profession: None, Police, Fighting Panda, Super Racer. Each panda has only one profession, which is determined by the secrets used and cannot be changed.

Professional level: None, N, S, R, SR, SSR. It can be upgraded through the corresponding professional secrets.

Professional Secrets: There are three types of Police Secrets, Fighting Secrets, and Driver Secrets. Each type has five levels: N, S, R, SR, and SSR; you can buy it with BNB or USDT.

3.4 Panda Props

Milk powder: Accelerates the growth of baby pandas, can increase the progress by 100%, and immediately turn into adult pandas.

Biscuits: Accelerate the growth of baby pandas, can increase the progress by 50%.



Bamboo: Increases the energy of the panda, 1 bamboo increases 1 point.

Diamond ring: Used for mating and reproduction.

Professional props: Guns (police), sticks (fighting panda), and cars (driver). There are three levels: N, S, and R.

3.5 Panda Breeding

Use your own male panda to mate with other users' female pandas to breed a new panda baby, the gender is random, the probability of male or female is 50%, Only pandas with professional level S or above can mate. Male pandas need to use diamond rings to seek mating, the bred panda baby belong to male panda users, while female panda users can receive umtp reward of 20% of the diamond ring price. Breeding needs to consume breeding times, each female panda has 5 breeding opportunities, and there is no limit for male pandas.

3.6 Professional Work

Professional pandas can work and earn UMTF tokens from their work. Each panda has 20 energy points per day, and each task consumes 1 energy point, buying and using "bamboo" props can increase the panda's energy (only when the energy value is below 20 points). Each work task needs to consume a professional prop.



3.7 Trading Market

Baby panda, adult panda and professional panda can conduct C2C free trade in the official mall, and the platform charges the seller 2% commission. Panda prices are determined by scarcity.



4. Economic Model

MetaPanda issues two tokens, MTXM (Governance Token) and UMTF (Game Token).

4.1 MTXM

Meta Panda Token, referred to as MTXM, is issued based on BSC and is a general governance token in the MetaPanda world. It can be used to purchase pandas, professional props, as well as milk powder, biscuits, bamboo, diamond rings, etc. Users can obtain it through airdrops, or the output of Panda Homeland.

Total circulation of MTXM: 99,999,999,999 pieces

Investor seed round: 2%, 2,000,000,000 pieces

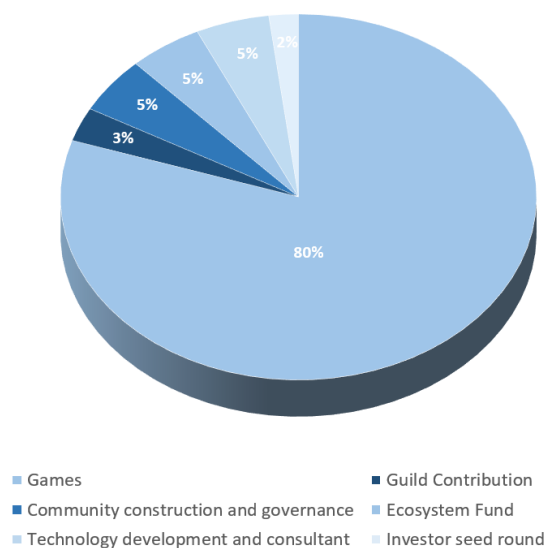
Guild Contribution: 3%, 3,000,000,000 pieces

Community construction and governance: 5%, 5,000,000,000 pieces

Ecosystem Fund: 5%, 5,000,000,000 pieces

Technology development and consultant: 5%, 5,000,000,000 pieces

Games: 80%, 79,999,999,999 pieces





4.2 UMTF

UMTF is the game token in the MetaPanda world, and its issuance is unlimited. Professional pandas get UMTF rewards through work, and users can exchange them for BNB through the UMTF/BNB trading pair, but cannot recharge, withdraw or transfer money.



5. Ecological Development Planning

5.1 Development Roadmap

- October 2021: Project launch
- November 2021: Smart contract technology research and development
- January 2022: Official website, white paper and media went online, and the blind box began to be pre sold
- January 2022: Game contract goes online BSC
- January 2022: The game task system goes online
- 2022 Q2: Establish an official support fund to support the construction of trade unions in Southeast Asia, the Middle East, Africa and other regions
- 2022 Q2: DAO is fully constructed, and the functions of token rights (dividends, voting, incentives, etc.) are fully opened
- 2022 Q3: NFT Online
- 2022 Q4: Iteration of game tasks, upgrade of playing methods, and launch of a new version of MetaPanda
- 2023: Develop a new generation of metaverse super public chain, open up game, social, public chain ecology, and construct metaverse super ecology
- 2024: Establish a creator platform, creators can create in-depth game content, including plot, gameplay, business model, etc.
- 2025: Establish a developer ecosystem, enable industry and developer ecology, and improve the metaverse infrastructure
- 2030: Preliminary completion of cross-platform and cross-industry ecological interoperability and integration, and gradually build a metaverse ecosystem



5.2 Future Prospects

In the initial stage of development, MetaPanda will build a virtuous circle and two-way incentive metaverse ecological community around community users and chain tourism ecology according to the plan. As the MetaPanda ecosystem matures and the community gradually develops and grows, MetaPanda will try to develop a new generation of metaverse super public chain, open up the game, social, and public chain ecology, and lay the foundation for the subsequent MetaPanda super ecology.

With the blessing of NFT and DeFi, MetaPanda super ecology will optimize the traditional game rules, change the traditional game segmentation mode, connect players together, return the ownership of game assets to players, and helping real people realize in the virtual world revenue growth. Through decentralized governance, players can enjoy governance and voting rights, so as to promote the activity between players and realize high ecological mobility.

On this basis, MetaPanda will further launch a virtual reality world based on the blockchain. Each player has his own identity ID, players can create and output content, and provide multiple social forms to bring users an immersive experience of multi port connection. At the same time, players can increase their identity influence through social interaction and convert their social influence into tokens. Players can realize the real economic exchange between the virtual and physical world through the exchange of tokens and real currencies, and finally form a self consistent economic system.

With the continuous optimization of hardware connection equipment, MetaPanda's virtual experience will be further deepened, and the virtual reality world will slowly form a virtual social system, and cross platform and cross industry ecological interoperability and integration, MetaPanda's metaverse ecosystem has also taken shape. In the



future, in MetaPanda, people all over the world can work in the same virtual office, enter the Marvel Universe anytime and anywhere, and feel the charm of Avengers.

Although the journey is far away, we always believe that as long as we run along the plan, the future is at our feet. Welcome to our revolution.



6. Disclaimer

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