



Whitepaper

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Preface

The HyperVerse team builds an online virtual world where users can explore, build, and create monetized assets to earn HyperVerse's native token, PCT. In addition, the HyperVerse will implement elements from DeFi, NFTs and Game-Fi, to create a virtual world with a thriving economy.

Introduction

Players will act as voyagers as they explore the HyperVerse, earning PCT by participating in various activities offered throughout the virtual world. PCT is the token that allows users to join the HyperVerse economy. It also provides users with the option to govern and determine the future of the HyperVerse using the V-DAO system. The V-DAO enables complete decentralization using smart contracts. Furthermore, it allows voting on the future of the HyperVerse, preventing the passing of any unfair policies that may ruin the HyperVerse economy.

1. Market background

1.1 Non-fungible tokens (NFTs)

Non-fungible tokens (NFTs) are digital assets that represent objects such as art, collectables, and in-game items. NFTs are stored on a digital ledger known as a blockchain that certifies the integrity of each asset and ensures that they're unique. As a result, the NFT market has experienced exponential growth, having increased by 2100% to US\$2 billion in the first quarter of 2021. As of the third quarter in 2021 NFTs market is estimated to be worth an excess of US\$10.5 billion.

1.2 Metaverse

The metaverse is an online virtual world incorporating augmented reality, virtual reality and 3D holographic avatars. The term 'metaverse' was first coined in 1992 by sci-fi author Neal Stephenson in his book "Snow Crash", which envisioned a world where lifelike avatars interacted in 3D buildings and other virtual environments. Corporations such as Meta and Microsoft are aiming to make this world a reality. Using their already established footholds in both technology and social networking, both are taking enormous strides in making Stephenson's metaverse a reality, with projections that the metaverse market will be worth \$US824 billion by 2028.

Contemporary depictions of the metaverse also have strong parallels to Game-Fi, and what Game-Fi has tried to establish. Although most Game-Fi's environments aren't the same as what Meta or Microsoft are aiming for, they do represent what it is the metaverse is trying to achieve. A virtual world, where users can participate in activities for enjoyment or financial reward, essentially replicating the real world.

1.3 Decentralized Finance (DeFi)

Decentralized finance (DeFi) aims to provide similar financial products to banks while remaining decentralized and fair. Traditional banking allows for unclear and unfair practices due to a lack of transparency. Those with superior information can take advantage of those less informed and thereby create an uneven playing field. Users also lack control when using traditional banking and trading platforms, especially in

the Robinhood debacle in early 2021, where users were unfairly blocked from trading. Decentralized finance aims to solve each of these problems using smart contracts and blockchain technology.

DeFi offers lending, borrowing and other financial products without any central authority. This can be achieved through peer-to-peer lending, where the agreed-upon terms are enforced through smart contracts, providing complete transparency for both borrowers and lenders. Generally, funds are stored in a lending pool, funded by investors who receive interest based on their investment. Funds can be borrowed by individuals who offer enough collateral, similar to the rules of a traditional loan. Safeguards are set in place using stable coins so that lenders will never lose their investments, regardless of the fluctuations in the collateral price. Once the loan is paid off, the borrower receives their collateral back and continues to hold their initial loan. Currently, there is roughly \$US250 billion locked in smart contracts; however, given the market size of traditional trading and borrowing, the smart contract market is expected to grow exponentially. Today, equity market capitalization is valued at over \$US100 trillion.

Although this is only one example of decentralized finance, it provides the first-ever safe and transparent alternative to the lending and borrowing problem, making it one of the most significant advancements in the financial industry. The decentralized and transparent system allows for a fair, safe, and profitable alternative to traditional banking.

2. The HyperVerse

To provide users with a decentralized platform to socialize from around the world and play to earn, the HyperVerse is establishing a metaverse with the integration of NFTs.

In this virtual multi-planet metaverse, users can connect with friends, experience different cultures and lifestyles, create NFT items, start businesses and explore the universe. The HyperVerse provides a fair chance to every resident in the galaxy, with the community being governed by users with HyperVerse Token (PCT).

3. Life in the HyperVerse

In this virtual metaverse, each user is represented by an interactable avatar, which imitates their motions and gestures in the real world. They can live a different and exciting life in the HyperVerse compared with the real world.

3.1 Create avatars

Each user will have one main avatar that represents them in the HyperVerse. The main avatar can be created based on users' physical appearance or be modified have fun, non-human characteristics. In addition, users will have the option to clone themselves using PCT, allowing them to experience different lives.

Additionally, users can customize and create avatars to accompany them on their journeys. These companions can be interacted with and will unlock unique experiences. They are also recognizable by other users.

3.2 Reside in the HyperVerse

When first entering the HyperVerse, users need to create their main avatar to start their new space lives. To make a living, begin the space journey and establish their business empire in the HyperVerse, users can acquire a personal space to live in.

There are two ways to obtain new personal spaces. First, users can acquire lands to establish estates and develop cities using PCT. Users can receive rewards by selling personal spaces to others after successfully establishing their cities. With the development of the HyperVerse and the release of the space exploration function, they will not be limited by a small piece of land. Adventurous users are able to explore unknown areas and own a whole planet to establish a new empire.

If users do not have enough PCT to start a huge plan about city development, they can purchase personal spaces listed in the marketplace and reside in those places developed by other users.

When travelling to and exploring new areas, users need to use transportation vehicles. For example, when exploring new planets, several users use PCT and NFTs to team up for a space expedition. For a space expedition, vehicles such as spaceships are essential. Once they land on a planet and claim ownership, they can build teleport stations and use PCT to teleport anywhere in the HyperVerse.

4. Tokenized Items

Everything you can see in the HyperVerse, from a cup of coffee to customized avatars, and even whole planets, are all tokenized as tradable NFTs. There are two different types of NFTs as follows.

4.1 HyperVerse-Native NFTs

Different planets contain different sources for users to explore, loot, and trade. Sources vary from minerals to collectable alien creatures. Moreover, tradable NFTs are not limited to independent items. The whole planet, which can be viewed as a bundle, is also tradable on the trading platform.

4.2 Crafted NFTs

In HyperVerse, everyone can unleash their creativity to customize anything, such as clothes, transportation and houses. Avatars that represent users, including both main and customized avatars, are NFTs as well. Everything on the planet can be defined by users. users are allowed to mint their own NFT items using PCT, and the crafted items can be traded on the marketplace.

5. Galaxy Pioneer

The HyperVerse aims to provide an entrepreneur-friendly ecosystem, which encourages users to start their own businesses and hire others to work for them. If starting a business sounds too complicated, users are also able to work as a Galaxy Wanderer, looting and mining on different planets. There are infinite possibilities and business ideas in the HyperVerse.

5.1 Galaxy Wanderer

Users are encouraged to make a living while exploring the galaxy. As a Galaxy Wanderer, users can choose to work for other users as Galaxy Boosters or work freely in the universe to harvest resources through mining and looting in different planets or even join space expedition fleets.

5.1.1 Mining and Looting

Users can earn rewards when they spend time working on mining sites or by participating in the looting of other planets.

5.1.2 Galaxy Booster

If users do not have time to or complete quests, they can choose to give out their clones to a Galaxy Booster. Boosters will play the game using their clones to earn PCT while taking a cut from the lootings.

5.1.3 Space expedition crew

Users can work on space expedition ships as crew members. As part of the fleet, they will get a portion of the rewards.

5.2 Galaxy Entrepreneur

Users can also choose to start their own business in the HyperVerse. With our unlimited business options, every user will be able to fulfil their business dreams in the virtual world.

5.2.1 Land and planet development

Planet developers are able to purchase and design the future use of a piece of land or a planet and decide whether it's going to be a commercial or residential area. For instance, planet developers can redesign a desert planet, turn it into an oasis, and then build a new human habitat.

5.2.3 Manufacturing and Mining

Different planets have different types of resources and levels of abundance. Mining companies can set up mining sites and factories on other planets, extract ore and refine it into tradable resources.

6. Space Expeditions

Other than the native planets and discovered space regions, the HyperVerse also contains limited but numerous Mystery Planets. users will collaborate to discover and develop them and form a space expedition with resources and PCT.

6.1 Pre-launch

The space expedition company founded by users can initiate space expedition proposals and post their exploration plans on the community board in V-DAO. Community users can invest in the expedition missions and receive a portion of the total rewards acquired. When the community voting and crowdfunding hit the target amount, they may proceed with their expedition.

6.2 Expedition rewards

The expedition fleet will be able to collect rare resources during expedition journeys and have the chance to claim ownership of the newfound planets. In addition, the discoverer has the right to craft the planet into NFT and trade it in the marketplace in exchange for PCT.

6.2.1 Fleet level

The fleet level depends on the spaceship level, fleet size, number of crew members, total energy and resources reserves. The higher the level of the fleet, the greater the chance to find rare plants.

6.2.2 Planet rarity

The crew's clone will stay on board during the missions. There will be 4 four different rarities of Mystery Planets: Common, Rare, Epic, Legendary; the rarer the planet, the more abundant the resources.

About Gasoline

Gasoline is a technology for building apps and organizations, holding assets, transacting and communicating without being controlled by a central authority. There is no need to hand over all your personal details to use Gasoline - you keep control of your own data and what is being shared. Gasoline has its own cryptocurrency, Ether, which is used to pay for certain activities on the Gasoline network.

Gasoline is a technology that's home to digital money, global payments, and applications. The community has built a booming digital economy, bold new ways for creators to earn online, and so much more. It's open to everyone, wherever you are in the world – all you need is the internet. Smart contracts are simply computer programs living on the Gasoline blockchain. They only execute when triggered by a transaction from a user (or another contract). They make Gasoline very flexible in what it can do and distinguish it from other cryptocurrencies. These programs are what we now call decentralized apps, or dapps.

Have you ever used a product that changed its terms of service? Or removed a feature you found useful? Once a smart contract is published to Gasoline, it will be online and operational for as long as Gasoline exists. Not even the author can take it down. Since smart contracts are automated, they do not discriminate against any user and are always ready to use.

About Petro Token

We are proud to support ingenuity in all its forms with the Shiba Inu Incubator. The petro Army is made up of talented individuals who have united to build something remarkable, and we support this by cultivating an environment which encourages creativity and growth. Through the power of the petro Inu Incubator, we help holders find the tools they need to bring their inspiration and unique perspectives to life. This is just another way to encourage others to step outside of preconceived limits and regulations and experience what it means to be part of our decentralized movement.

PETRO is a decentralized, open-source blockchain-based operating system with smart contract functionality, proof-of-stake principles as its consensus algorithm and a cryptocurrency native to the system and supervised by the PETRO Foundation, a non-profit organization in Canada established in the same year

7.PCT utilizations

PCT is a multifunctional governance token designed for the HyperVerse, with applications in community governance, trading in the marketplace, depositing, mining, upgrading, and crafting NFTs, and conducting space expeditions.

To better understand the utilities of PCT, users are advised to start from the basic function – work as the medium of trading NFTs and services in the HyperVerse.

1.1 Multi-planet system

Humans have discovered and developed several planets in the HyperVerse, each of which has its unique culture and resources. Every planet is a GameFi where users will play to earn corresponding in-game currencies, which can be changed to PCT. Users in the HyperVerse will loot the planet-specific resources in them and build numerous space stations. Those resources have many utilizations include but are not limited to upgrading or customizing NFTs, and trading for the planet-specific currency.

1.1.1 Looting original NFTs

Every planet has its unique and rich resources like equipment, minerals and creatures, which are all can be looted and then be traded. Some of them like equipment and creatures are the original NFTs that can be upgraded or customized by users in the future. The other NFTs like mineral resources are only consumables in the process of upgrade and customization, but they are also tradable.

1.1.2 Upgrading and customizing NFTs

Resources looting from the planets and PCT are essential inputs when upgrading NFTs. When the user spends resources and PCT to upgrade an NFT, a new NFT is minted while the original NFT, resources, and PCT will be burned. The process of customizing NFTs is similar to upgrade, but users are free to put in any resources they want and change the appearance of NFTs.

1.1.3 trade for planet-specific currencies

If the user does not plan to use out the resources for themselves, they can sell them and earn planet-specific currencies. The planet-specific currencies can purchase anything on the same planet, but are not applicable when trading other resources or services. To improve the flexibility of their virtual assets, users are advised to exchange those currencies into PCT in the marketplace. Only with PCT, users can purchase any resources no matter which planet they come from.

1.1.4 Marketplace

The marketplace is a trading platform, where all the trading activities will take place. Users will trade NFTs, services, and currencies inside it as described in the sections before. The currencies include the in-game currencies generated from various planets. The NFTs can be planet-specific resources looting from different planets or crafted NFTs. For certain items and equipment, the marketplace is also assisting in bridging the virtual and real world by allowing users to convert items between the two worlds.

1.2 V-DAO

V-DAO is HyperVerse's DAO (Decentralized Autonomous Organization). With the aid of PCT, users can participate in the governance of the HyperVerse community through voting and initiating new proposals. For example, users can raise new business ideas, set disciplines for the whole HyperVerse, and even the future functions of the HyperVerse.

1.2.1 Rights to vote

The voting rights are calculated from the balance of PCT in users' wallets which are connected with the HyperVerse. When the approval votes reach a certain level, the proposal will be approved and be executed automatically by the smart contracts.

1.2.2 Business grants and support

In the HyperVerse, users can create new business ideas. The community will subsidize the most interesting and creative business ideas by community voting through the V-DAO. The V-DAO owns the smart contract of assets in the HyperVerse

world. It subsidizes the project's operations throughout the HyperVerse and allows for autonomous community governance. Costing a small number of PCT, every user has the right to initiate new proposals to be voted on by the whole community.

7.4 Galaxy Decentralized Capital

Galaxy Decentralized Capital (GDC) is a decentralized financial service provider in HyperVerse. It provides lending and borrowing services and functions as a trading platform for tokenized financial products. GDC will function to bring DeFi to the HyperVerse. Hence, all the lending and borrowing activities in the HyperVerse will be conducted through autonomous smart contracts via GDC.

7.4.1 Lending

GDC allows users to deposit their available PCT into the GDC Vault to earn interest. As a result, users will receive a floating yield of return based on the total amount of borrowing and lending in the GDC market.

7.4.2 Borrowing

Users can borrow PCT from GDC collateral from the HyperVerse or from the real world to acquire PCT from the GDC. The interest rate will be transparent and variable, depending on the total amount of lending and borrowing at a given time.

7.4.3 Tokenized financial product

Users can invest in tokenized financial products in GDC with PCT, allowing them to bridge their virtual assets with the real world. The tokenized financial products provided in GDC include tokenized stocks, options, bonds, real estate, and more tokenized financial derivatives that will be added to GDC in the future.

2. Token distribution

HyperVerse will issue a total supply of 10 billion PCT tokens, all of which are obtained by mining. PCT tokens have multiple utilities in the HyperVerse. The entire HyperVerse consist of lots of planets and space stations, where PCT tokens are the governance tokens for the development of the ecosystems. The tokens gained by Gamefi can be swaped with PCT tokens with certain ratios. PCT tokens can be used to mint, upgrade and customize NFTs, swap for planet-specific currencies, form space expeditions, and trade in the marketplace.

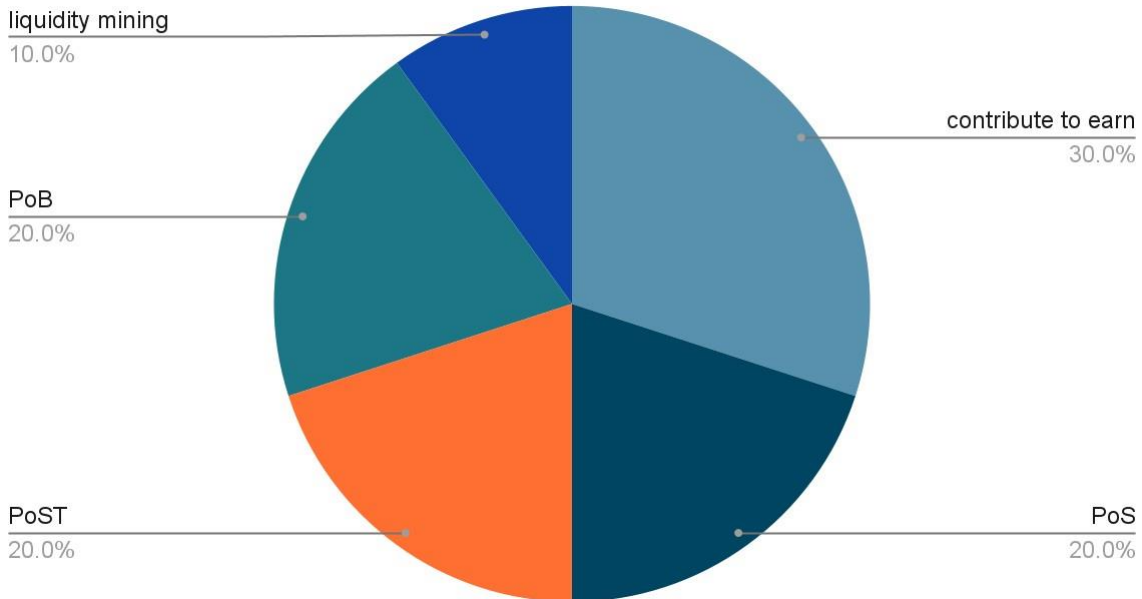
2.1 Contribute to earn

At the beginning of the HyperVerse ecosystem development, the only mining method open to the community is 'contribute to earn'. Users inject assets for the development of their planet, and this is considered as the 'contribution'. The more contribution a user makes, the more mining rewards the user gains.

For the rest of PCT, the HyperVerse gives miners who want to participate a high level of freedom. With the development of the HyperVerse, the rest of the PCT tokens will be gradually released via different mining methods. The mining methods to be released in the future with the allocation of:

- 20% reserved for PoS
- 20% reserved for PoST
- 20% reserved for PoB
- 10% reserved for liquidity mining

Token Distribution



2.2 Proof of Stake (PoS)

The HyperVerse provides users with a relatively traditional mining method – proof of stake. Miners stake their PCT so that they will have rights to check the validity of transactions. The longer and more PCT miners stake, the higher possibility that the miner be chosen as the validator and receive PCT as rewards. Thus, those users who prefer a more resistant and more developed method are advised to mine PCT by PoS. Miners who are willing to make a longer term investment are recommended to enter the PoS mining pool and stake their PCT.

2.3 Proof of Space-Time (PoST)

Derived from PoS, Proof of Space-Time is gaining its popularity these days. The HyperVerse will provide miners this choice as well. Miners who have large amount of storage space may receive satisfying rewards via this method.

PoST requires miners to prove that they have truly provided storage capacity over a period of time. Similarly, miners will receive PCT for rewarding their storage contribution. The PCT rewards is proportionate to the disk space miners provide and the length of time period.

2.4 Proof of Burn (PoB)

To participate in PCT's PoB mining, miners initially need to hold some PCT because they need to destroy them to generate new blocks. Miners will prove that they have sent a certain amount of PCT to the black hole to win the rights to be selected as the validator to the new block. The chance to be chosen is proportional to the amount of PCT miners burnt during a period. After the new block is generated, miners will gain their awarding PCT.

This mining mechanism ensures that PCT will keep deflating over time and protect the price of PCT. Thus, the HyperVerse plan to reserve enough amount of PCT for PoB to benefit each participant in the HyperVerse community.

2.5 Liquidity Mining

To improve the liquidity of PCT, the HyperVerse is opening the liquidity mining pools to assist in accelerating the transaction speed. Users can stake pair of coins like PCT-HSDT, PCT-BTC and PCT-ETH for a given period of time. Then they will become liquidity miners and be eligible to receive PCT rewards for contributing tradable coins for other PCT users.

The HyperVerse users need PCT to mint, upgrade and customize NFTs, swap for planet-specific currencies, form space expeditions, and trade in the marketplace. The more the PCT users, the higher liquidity they need, so the liquidity providers can receive higher interest for their contribution.

3. Roadmap

Q1 2022

- Release HyperVerse official website
- HyperVerse begins to develop space stations and GameFi functions
- Complete HyperVerse smart contract infrastructure

Q2 2022

- The initial PCT can be mined via “contribution to earn” method
- The marketplace enters alpha testing
- HyperVerse enters alpha testing

Q3 2022

- The marketplace enters beta testing
- HyperVerse enters beta testing
- ‘Contribute to earn’ mining functions become available, 30% of PCT is unlocked
- The marketplace is officially released and users are allowed to trade NFTs inside

Q4 2022

- The official version of HyperVerse is released
- Release Jurassic Planet
- Release workshops where users can craft their own NFTs

Q1 2023

- Release Merlin's Fortress

- Start to develop HyperVerse AR and VR functions
- 20% of PCT is open to be mined via PoS
- 20% of PCT is open to be mined via PoST
- Allow users to experience multi-planet life via clone characters

Q2 2023

- Release Warzone
- New function: customizing companion characters
- Begin to build V-DAO community smart contract structure

Q3 2023

- Release Asgard
- V-DAO community governance system enters alpha testing
- 20% of PCT is open to be mined via PoB
- 10% of PCT is open to be mined via liquidity mining

Q4 2023

- Release Wonderland
- AR and VR functions enter alpha testing
- V-DAO community governance system goes live

Q1 2024

- Release Tomb of Stars
- Release V-DAO community governance system

Q2 2024

- AR and VR functions enter beta testing

- Space Expedition function enters alpha testing
- The function of founding companies goes live

Q3 2024

- New areas with numerous unknown planets in the HyperVerse are opened
- Users are able to form space expeditions and explore the newly opened areas

Q4 2024

- Users are allowed to decide the future of the HyperVerse via V-DAO community

The first half of 2025

- HyperVerse officially release AR and VR experience

The second half of 2025

- Corporate with business partners to convert customized NFTs into the real world

4. Summary

HyperVerse is a decentralized metaverse satisfying social and financial needs for all people around the globe. People have the opportunity to live an exciting life, where they can develop, trade and create digital assets in a futuristic virtual world. Furthermore, users have the chance to grow their real-world wealth by exploring and mastering the intricate and diverse universe, that is, the HyperVerse.