MudAi

Create, Trade and Play in the blockchain and AI-based

Metaverse owned by players.

White paper

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Content

1. Preface

MudAi is a communication platform rooted in artificial intelligence technology and enhanced by the utilization of blockchain technology. Through its proprietary advanced technology, MudAi aims to lower the entry barriers, enabling users to effortlessly immerse themselves in the metaverse. Furthermore, it is dedicated to constructing a metaverse ecosystem that fosters a harmonious circulation among its diverse members, including enterprises, developers, and users.

The metaverse industry is anticipated to witness significant expansion in the coming years. According to an analysis by the global market research firm, Strategy Analytics, the global metaverse market is projected to reach a staggering $280 billion by 2025. Additionally, Acumen Research and Consulting report predicts that Metaverse Market is forecasted to Reach $ 3,935 billion by 2032, growing at a CAGR of 46.4% Over the Forecast Period 2023 to 2032.

The metaverse is gaining traction as a novel market where societal activities akin to reality can be conducted through virtual worlds. It represents an evolved concept beyond mere virtual reality. Instead of merely observing virtual reality through screens, individuals can actively participate in the virtual world, enabling value creation and interactions analogous to the real world. Notably, the MZ generation (born from the early 1980s to the early 2000s) is gravitating towards it, viewing it as a space that embodies diversity and inclusivity.

However, behind the dazzling growth of the metaverse market lie challenges such as the need for proof of ownership, the absence of an integrated platform for virtual reality and the metaverse, and an irrational content revenue structure. As the metaverse market flourishes, the value of traded goods within the market escalates, necessitating proof of item ownership. Moreover, there's a glaring deficiency of an integrated platform that amalgamates virtual reality users with metaverse content. Developers are also compelled to not only pursue revenue from content sales but also to leverage the economic ecosystem of the metaverse, necessitating a rich supply of captivating content in the market.

Given the rapid formation and expansion of digital communities, individuals are investing more time and resources in digital activities. From using social media platforms and exchanging emails to consuming online content, the means of information exchange are vast. Against this backdrop, individuals pursue specific information or individuals, and by sharing their knowledge and information, digital communities are formed. However, the increasing volume and complexity of information have led to a surge in the time spent on information selection and exchange. This underscores the pressing need for the efficient utilization of disposable time in the digital space and a redesign of information exchange.

The MudAi team proposes a communication platform that harnesses both blockchain and artificial intelligence technologies to address these demands. Through this, the team aspires to resolve issues arising in the metaverse industry and to craft an efficient virtual world of novel concepts. The developmental direction MudAi proposes for the blockchain-based metaverse industry encompasses:

- **Customized Virtual Space Construction (MudAi Metaverse):** A public space offering a myriad of virtual reality metaverse content experiences, ranging from gaming and shopping to education and exhibitions. Offering tailored virtual spaces to a diverse audience, including business owners, designers, store owners, and general users.

- **Ecosystem Expansion (NFT Market):** A space where self-developed or commissioned items are sold, and various items requiring ownership protection are traded.

- **Efficient Information Exchange through AI Technology (MudAi Personalization):** Users can swiftly acquire necessary information and effectively share their information with others.

To fulfill the above perspectives, MudAi proposes a system where platform participants can receive additional rewards simply by fulfilling their roles. As a result, participants in MudAi's virtual reality metaverse can contribute to building a more efficient virtual world network through content creation, provision, and experience, and in return, receive rewards.

Being an open platform, MudAi simultaneously encourages participation from the entire existing metaverse industry. MudAi aims to invigorate the ecosystem based on metaverse assets and further encourages the participation of additional partner companies. Naturally, by building a virtual reality ecosystem that distributes rewards fairly based on the contributions of platform participants, various participants are expected to join as partners of MudAi. The ultimate goal of MudAi is to realize a trustworthy metaverse ecosystem leveraging blockchain technology. Through this, based on the ecosystem activities of all participants, including partner companies, it aims to provide beneficial services that contribute to the development of the metaverse industry.

2. Introduction

2.1. Metaverse

The term "Metaverse" is a compound of "meta," denoting abstraction or transformation, and "universe," referring to the real world. It signifies the concept of leading a new life in a virtual space, mirroring our real-world experiences. Within this online 3D virtual realm, users can interact with others as avatars representing themselves. They can earn money, consume, play, and engage in productive tasks, essentially continuing their real-world activities seamlessly. Presently,

the metaverse finds applications in various domains, replicating everyday actions in a virtual setting, spanning from gaming and entertainment to corporate business environments.

The growth of the metaverse has been catalyzed by the convergence of the non-face-to-face conditions imposed by the COVID-19 pandemic and the advancements in 5G (fifth-generation) mobile communication technology. Among these, 5G technology plays a pivotal role as the most crucial key technology bolstering the expansion of the metaverse market. This is attributed to its ultra-low latency, broad bandwidth, and massive connectivity capabilities, enabling services like real-time streaming, autonomous driving, and the Internet of Things (IoT) that were previously challenging to realize. Furthermore, advancements in Artificial Intelligence (AI) and big data are adding depth and detail to the metaverse, making it more tangible. Additionally, blockchain technology is gaining recognition as a tool that robustly bridges the real and virtual worlds.

Figure 1. MudAi Metaverse

2.2 Market Size

2.2.1. Metaverse Market

The expansion of the metaverse industry is anticipated through various market research studies. According to forecasts by the global market research firm, Strategy Analytics, the metaverse market is projected to reach $2.8 trillion by 2025. Additionally, based on analysis by Emergen Research, Global Augmented Reality and Virtual Reality Market Size to Reach $ 789.85 billion in 2032.

Major technology companies are positioning the metaverse as a new opportunity for the future, unveiling a range of platforms and products. As of January 2021, Microsoft (MS) acquired ZeniMax Media and launched the virtual reality-related device "HoloLens2". NVIDIA introduced "Omniverse", a collaborative platform enabling joint work in virtual offices. Facebook announced its virtual space social communities, "Facebook Spaces" and "Horizon". In South Korea, NAVER recently unveiled "ZEPETO", a platform where users can create avatars and virtual worlds using facial recognition and augmented reality, and design and trade items like clothing.

Among these, the most iconic metaverse platform is Roblox, developed by the American online gaming company of the same name. Roblox is a game platform centered around the concept of a virtual world. On Roblox, users can enjoy games with LEGO-like avatars, engage in chat and voice calls with other users, and even create their own games. As of the end of the previous year, Roblox boasted 32.6 million daily active users, with over 50 million games created within its ecosystem, making it immensely popular among American students and children under 16. Consequently, Roblox went public on the New York Stock Exchange in March 2021, and upon its listing, the company was valued at $452 billion.

2.2.2. AI Market

The artificial intelligence (AI) market is on a notable growth trajectory, spurred by advancements in machine learning, deep learning, and natural language processing technologies. According to various market analysis reports, this expansion is prominent globally and in specific regions like Japan. The market size, projected growth rates, and the sectors propelling this growth are outlined below.

The global AI market was valued at $65.48 billion in 2020, with projections indicating a Compound Annual Growth Rate (CAGR) of 38.0% from 2021 to 2030, culminating in a market size of $1,581.70 billion by 2030[1]. Another projection posits a growth from $428.00 billion in 2022 to $2,025.12 billion by 2030, exhibiting a CAGR of 21.6%[2].

The growth in the AI market is driven by a range of factors including technological advancements, an increased number of relevant partnerships and collaborations, and the rising implementation of AI across various industrial sectors. The landscape is becoming increasingly competitive with major technology companies investing heavily in AI to stay ahead. Collaborations and partnerships among industry players are fostering innovation and aiding market growth. Various sectors including healthcare, finance, retail, and automotive are contributing to the AI market expansion, with innovations in AI enabling smarter solutions, enhanced customer experiences, and improved operational efficiencies across these sectors.

With substantial investments from both established and emerging players, the AI market is poised for robust growth in the coming years. The intertwining of AI with other technological trends like the Internet of Things (IoT) and big data analytics is further propelling the market forward, promising a transformative impact across a myriad of industries.

2.3. Market issues

2.3.1. Proof of Ownership

Within the metaverse, an economic ecosystem based on asset ownership has been established. For instance, Roblox, an American metaverse gaming platform, sells its virtual currency, "Robux," to users. Users can use Robux to purchase various items, expressions, games, and more. Additionally, users can operate as creators within Roblox, producing content and generating revenue. However, as the value of traded goods increases, proving ownership of these goods becomes essential. Consider purchasing an expensive building in a virtual world. Even if you buy the building with real currency in the virtual world, there's no way to prove the purchase. Consequently, users must trust and rely on a centralized platform to validate and protect their assets. As the actual transaction value increases, proving ownership of purchased goods emerges as a critical issue.

2.3.2. Lack of Content Integration Platform

Existing content distribution platforms have set high margin rates, resulting in an irrational structure where the actual added value doesn't return to the development companies. Prominent game distribution platforms like Steam, Epic Games, and Xbox generate revenue through fees. In 2019, despite fierce competition among global game distribution companies, Steam maintained a 30% distribution fee. As a result, development companies had to manage all aspects, including development and operations, with the remaining 70%. This revenue imbalance in the market poses challenges for content development and, from a macro perspective, shrinks the overall metaverse content market. To address this, developers need not only revenue from content sales but also other revenue streams within the metaverse's economic ecosystem. A crucial requirement for current metaverse platforms is building a network that supplies abundant engaging content, attracting new users and creating a positive market cycle. Content creators need to establish a network where they can fully own and control their creations.

2.3.3. Limit of Users' Disposable Time

In recent years, digital technology has evolved remarkably, leading to the rapid formation and expansion of digital communities. People invest significant time and resources in digital activities, with information exchange at the core. The means of information exchange, such as using social media, emailing, and consuming online content, are diverse. Against this backdrop, people pursue specific information or individuals and share their knowledge and information, forming digital communities. However, due to the increase and complexity of information, the time spent on selecting and exchanging information is continually rising. The need to effectively utilize disposable time in the digital space and redesign information exchange is becoming evident.

In reality, several challenges must be addressed for people to actively utilize the Metaverse. For instance, despite the current state of platforms like TheSandbox and Decentraland, MAUs remain low. According to MudAi's analysis, this isn't due to a lack of content or graphics but because people are unwilling to spend time and effort manipulating avatars or communicating in the metaverse.

MudAi proposes a novel approach to this challenge. Our goal is to develop tools and services that enable people to utilize their time in the digital space more effectively. Users allow a personalized AI to act on their behalf in the metaverse. Users pre-personalize the AI, which is then reflected in the avatar. Users then simply provide instructions, such as "create a world with XXX atmosphere" or "connect with people in XXX community," and the AI acts in the Metaverse as their personal representative. This ensures users can quickly obtain information tailored to their interests and needs and utilize it effectively. Furthermore, by redesigning the way information is exchanged, we aim to make information acquisition and sharing smoother. While current methods of information exchange have

inefficiencies and issues, MudAi's technology seeks to resolve these problems, aiming for more effective information exchange, thereby reducing humans' disposable time in the digital world.

2.4. MudAi Team's Mission

The MudAi team is committed to bringing innovation to the metaverse market by addressing the aforementioned challenges through the provision of a communication platform powered by artificial intelligence and blockchain technologies. The team proposes the following initiatives:

1) **Customized Virtual Space Construction (MudAi Metaverse):**

Offering a public space where users can immerse themselves in a variety of virtual reality metaverse content, ranging from gaming and shopping to education and exhibitions. Providing a tailored virtual environment catering to the needs of business owners, designers, store owners, and general users alike.

2) **Ecosystem Expansion: NFT Market**

Facilitating a space where self-developed or commissioned items can be sold, and various items requiring ownership protection can be traded.

3) **Efficient Information Exchange through AI Technology: MudAi Personalization**

Enabling users to swiftly access necessary information and effectively share their own data with others.

To realize this vision, the MudAi team introduces a novel virtual reality metaverse ecosystem, "MudAi City," leveraging blockchain technology. Specifically, through the advanced MudAi City, the team aims to provide developers, consumers and advertisers with reliable payment data in the metaverse, fostering an environment of mutual collaboration. To achieve this, risks associated with data tampering are eliminated through a robust blockchain-based network. Additionally, by harnessing smart contracts, participants in MudAi City can receive rewards commensurate with their contributions without navigating complex procedures, laying the foundation for a healthy ecosystem. As a result, MudAi City offers an environment where each participant can focus on their objectives and collaboratively build a new virtual reality world. Furthermore, by utilizing artificial intelligence technology, the platform optimizes users' time spent in the digital space, presenting opportunities for more valuable activities.
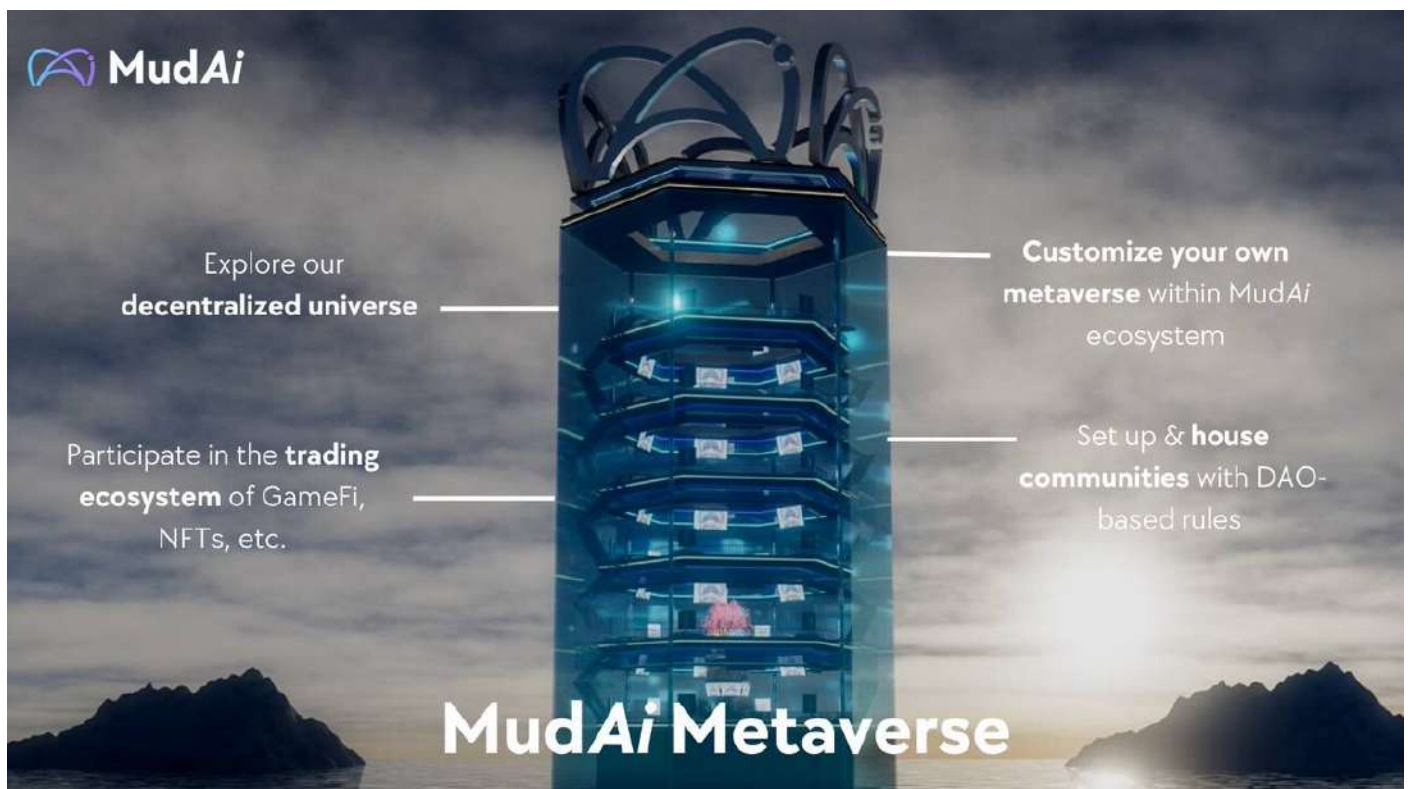

Figure 2. Value Proposition of MudAi City

3. MudAi ecosystem

3.1. The Artificial Intelligence Powering MudAi

3.1.1. Constructing an AI-Driven Digital Identity

Within the MudAi platform, users can possess a digital counterpart, termed a "pseudo personality." This digital pseudo personality is crafted using cutting-edge AI technology, capable of learning and analyzing a user's preferences, hobbies, and behavioral patterns.

This pseudo personality serves as a user's surrogate in the electronic realm, facilitating information exchange, interactions with other users, and even undertaking tasks on the user's behalf. Specifically, through conversations with MudAi's AI, the AI learns and adapts to the user's characteristics and behaviors. This learning process is ongoing, enhancing the AI's accuracy and the "purity" of the digital self over time.

In the digital space, especially within the metaverse, such AI-controlled avatars can interact with other users and information sources. A unique feature of MudAi is that users can have multiple digital avatars, akin to having multiple accounts on social media platforms, each tailored for different purposes and roles.
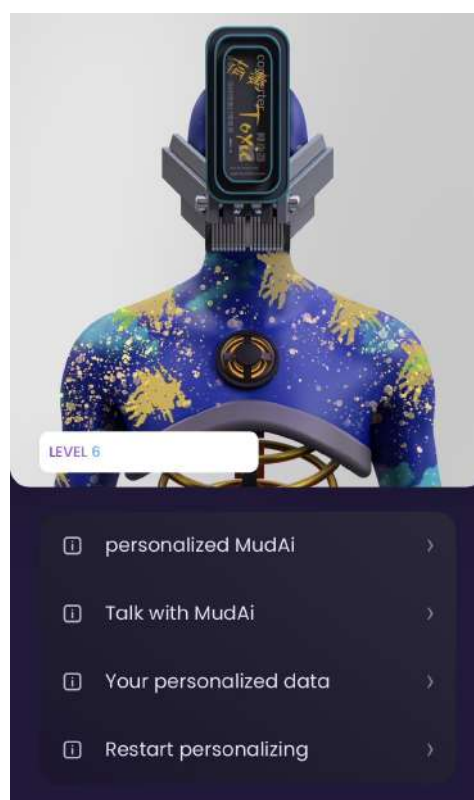
Figure 3. MudAi AI

3.2. Why Blockchain?

3.2.1. Establishing Digital Identity through Blockchain and AI

In recent years, blockchain technology has gained prominence as a foundation ensuring data integrity and immutability. MudAi leverages this technology to establish the identity of the digital counterpart, the AI. Each AI is linked to a wallet on the blockchain, ensuring that one wallet represents one unique digital entity, with its data guaranteed to be tamper-proof and irreversible on the blockchain. Through their SBT-linked wallets, users can personalize their AI, with accumulated data being on-chained.

Thus, the MudAi system harnesses blockchain technology to solidify digital identity in the digital realm. This digital identity exists as a continuously learning and evolving unique entity, enhancing user trust and security in the digital space, facilitating higher-quality information exchange and communication.

3.2.2. Global Payment System

MudAi City, as a metaverse platform based on NFT assets utilizing blockchain technology, offers a global payment system for all participants to engage in vibrant economic activities in this new virtual world. Participants from anywhere in the real world can join MudAi City and avail international services. The MudAi ecosystem overcomes challenges like fluctuating exchange rates between national currencies, slow transfer speeds, and fees by issuing digital assets through blockchain technology. These assets are free from exchange rate and fee issues, potentially inviting developers and partner companies to join a unified token ecosystem built on one blockchain network. This reduces complex payment procedures and enables swift transfers, lowering the entry barrier for potential global partners and generating anticipated positive effects.

3.2.3. Ecosystem Transparency

MudAi City can be defined as the foundational network constructing the MudAi platform's ecosystem. This includes a payment system that securely protects and transparently records token transactions occurring in MudAi City's virtual world. Participants can register and produce NFT assets and content and set economic parameters for tokens. Meanwhile, the virtual world of MudAi City rewards participants based on their contributions to the metaverse ecosystem, ensuring transparency and protection against forgery or tampering. By utilizing a blockchain-driven network, risks associated with data tampering are eliminated, and participants can receive rewards commensurate with their contributions through smart contracts.

3.2.4. Ownership Protection

Items generated and used in MudAi City's new virtual reality metaverse ecosystem are fully protected in terms of ownership through smart contracts. This means that any participant in the MudAi City ecosystem can become a producer of metaverse items, hold ownership of the relevant items, and continuously generate revenue through these items, all while being protected. By leveraging blockchain, MudAi City encourages item producers to create more items while protecting the ownership related to item production, fostering a positive cycle for the entire metaverse industry.

3.3. MudAi Platform

MudAi City integrates virtual reality metaverse with blockchain technology to enable O2O (Online to Offline) services across various industry sectors. By leveraging the unique characteristics of virtual spaces rather than physical ones, it aims to facilitate participation in diverse sectors such as F&B, exhibitions & trade fairs, gaming, and other content industries, playing a pivotal role in their advancement.

Blockchain operates as a decentralized network enabling P2P value exchanges. Consequently, all data on the blockchain is distributed, preventing arbitrary manipulation and ensuring transparency and trustworthiness. MudAi City, as an ecosystem combining the advantages of blockchain and metaverse technologies, is designed to lower the entry barriers for users to easily experience the virtual world while also safeguarding participants' interests.

MudAi City comprises three primary functionalities: 1) MudAi Metaverse, 2) NFT Market, 3) MudAi personalization, and 4) MudAi messenger. All these are built with a user-centric UI, promoting active engagement from users, various businesses, developers, and other diverse ecosystem members. These functionalities will likely be essential in establishing a mutually beneficial metaverse ecosystem.

Figure 4. MudAi Platform

3.3.1. NFT Market

The NFT Market is a platform where various items can be traded within the virtual reality. This platform hosts items primarily provided by the MudAi team, and developers can sell their self-developed 3D items. Additionally, users can commission developers to create bespoke items. To protect the value and ownership of custom-made items beyond the basic offerings, NFT (Non-Fungible Token) technology is employed.

NFT ITEM Market

The NFT ITEM Market is not only a place to purchase basic items provided by the MudAi team but also a venue for P2P transactions between users. The MudAi team plans to offer various basic items for use in MudAi-Space either for free or at a low cost. However, since these items are available for everyone, they will be limited in quantity and, once purchased, are intended to be non-retradable.

Figure 5. NFT Market

NFT ITEM Custom Production

The NFT ITEM Market allows for the production and free trading of a wide range of items, not just the basic ones provided by the MudAi team. This means individual developers, startups, and developers of all scales can produce items in MudAi City and generate revenue. Developers can anticipate user needs, produce required items in advance, set their desired prices, and list them for sale. They can also accept custom production requests from users and create bespoke items accordingly.

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Figure 6. Example of NFT ITEM Custom Production

ITEM Ownership

NFTs signify tokenized items developed directly by developers, safeguarding the value and ownership of the item. Each item has distinct attributes, making it a non-fungible token, which in turn verifies ownership and enables trading. All item attributes are recorded on the blockchain, as are the item's transaction history and ownership details. MudAi provides an intuitive UI/UX to allow anyone to tokenize their items.

Metaverse Commerce Using Photogrammetry Technology

In the realm of metaverse commerce, photogrammetry technology stands out as a revolutionary tool. By leveraging this technology, real-world items can be accurately scanned and transformed into 3D models, seamlessly integrated into the virtual environment of the metaverse. This isn't just an aesthetic endeavor; it paves the way for a new paradigm in online shopping. Imagine a scenario where users can purchase an item in the metaverse, and not only can they generate and utilize it within their virtual space, but they can also receive the actual physical product delivered to their doorstep in reality. The process is straightforward and efficient, bridging the gap between the virtual and physical worlds. As the metaverse continues to evolve, the potential for combining the tangible and digital realms through photogrammetry offers a promising future for immersive commerce experiences.

3.3.2. MudAi Metaverse

MudAi Mtaverse serves as the elemental unit that constitutes the virtual reality world of MudAi-City, and more importantly, the MudAi Metaverse also serves as demonstration of how AI can maintain social structure.

Space Allocation

Initially, MudAi Metaverse is accesible to public. To allocate a "Space", a certain amount of tokens must be used for purchase. Additionally, tokens can be used to expand the limited space of "Space", allowing users to choose the size and scope of the space. For instance, individuals can utilize a small "Space" area as a collection space akin to existing blogs. Content providers can expand this space through additional purchases, using it as a platform for diverse content offerings. Notably, content providers can add even more functionalities to their "Space", transforming it into shopping malls, exhibition halls, expos, museums, etc.

Item Purchase and Utilization

For effective decoration of the "Space", necessary items must be purchased using tokens. These items range from interiors, background music, to furniture, and can be acquired from the NFT Market. Each item's price in MUDAI tokens is determined based on its type, design, color, size, and attributes.
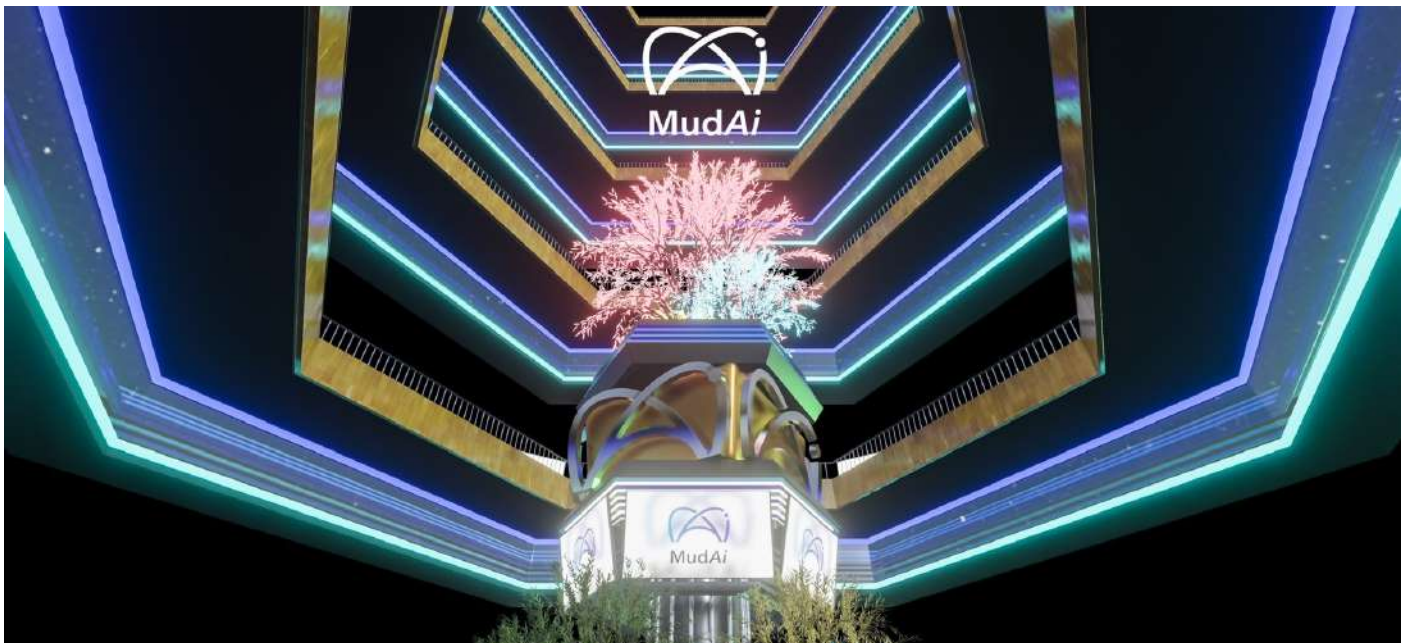

Figure 7. Example of "Space" in MudAi Metaverse

MudAi Metaverse Utility

MudAi hosts content providers from various fields, offering a plethora of content to users. Without setting boundaries, numerous offline businesses can join as content providers in areas such as education, gaming, entertainment, F&B, healthcare, and cultural activities. In its early stages, the MudAi team plans to proactively acquire various content or develop it directly to shape the content ecosystem. Concurrently, they aim to incrementally introduce more development tools, fostering an environment where developers can participate, ensuring the ecosystem continuously grows with rich content and services.

Figure 8. Example of MudAi Metaverse Utilization

Content Provision

The immersive metaverse technology, applicable across all fields, allows businesses of various scales to captivate consumers with even greater immersion than reality. Through MudAi Metaverse, participants can access their preferred content at any time, enjoying various games, receiving education, and even generating actual revenue. MudAi Metaverse is adaptable for content from gaming, education, healthcare, film, broadcasting & advertising, manufacturing, and industrial sectors. Detailed areas include exhibitions, museums, shopping, and more, set to be implemented in the early stages of the MudAi platform. Further details on content examples will be discussed later.
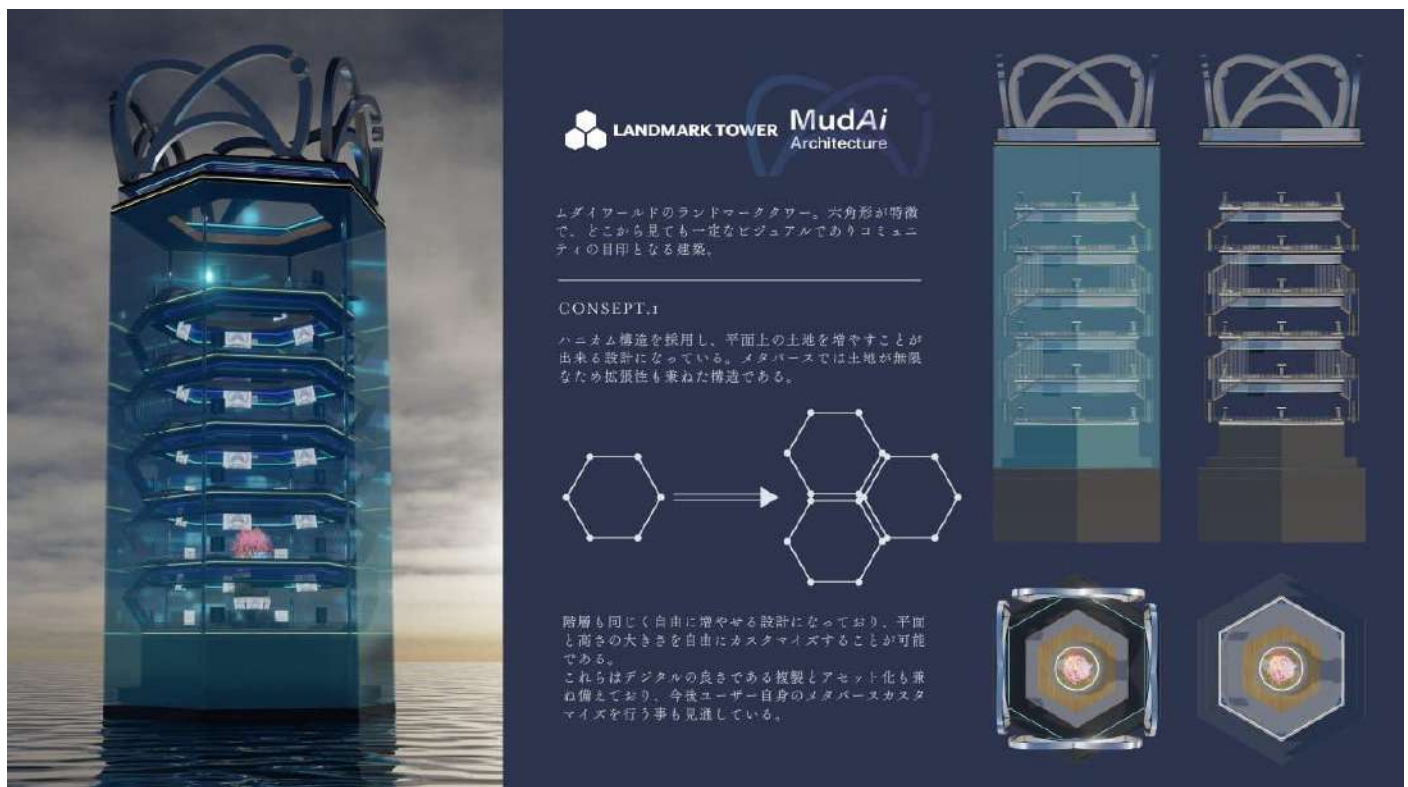

Figure 9. Various application Fields of MudAi-City

Utilization of Advertising Space

Advertisers can utilize the virtual reality world of MudAi to post ads and directly advertise to participants. In other words, if one owns space in MudAi Metaverse, they can receive advertising fees from advertisers and display ads. However, prior approval from the owner is required for ad placement. All advertisements in MudAi are priced based on specific actions (CPA) within the consumer behavior targeted by the advertiser. Criteria can be set for views, clicks, visits, purchases, etc., offering a range of choices. In this context, advertising fees are paid to the space owner and the ecosystem participants who viewed the ad, with a portion being paid as platform fees. Thus, all participants of MudAi can earn advertising rewards solely from activities in the virtual reality world.
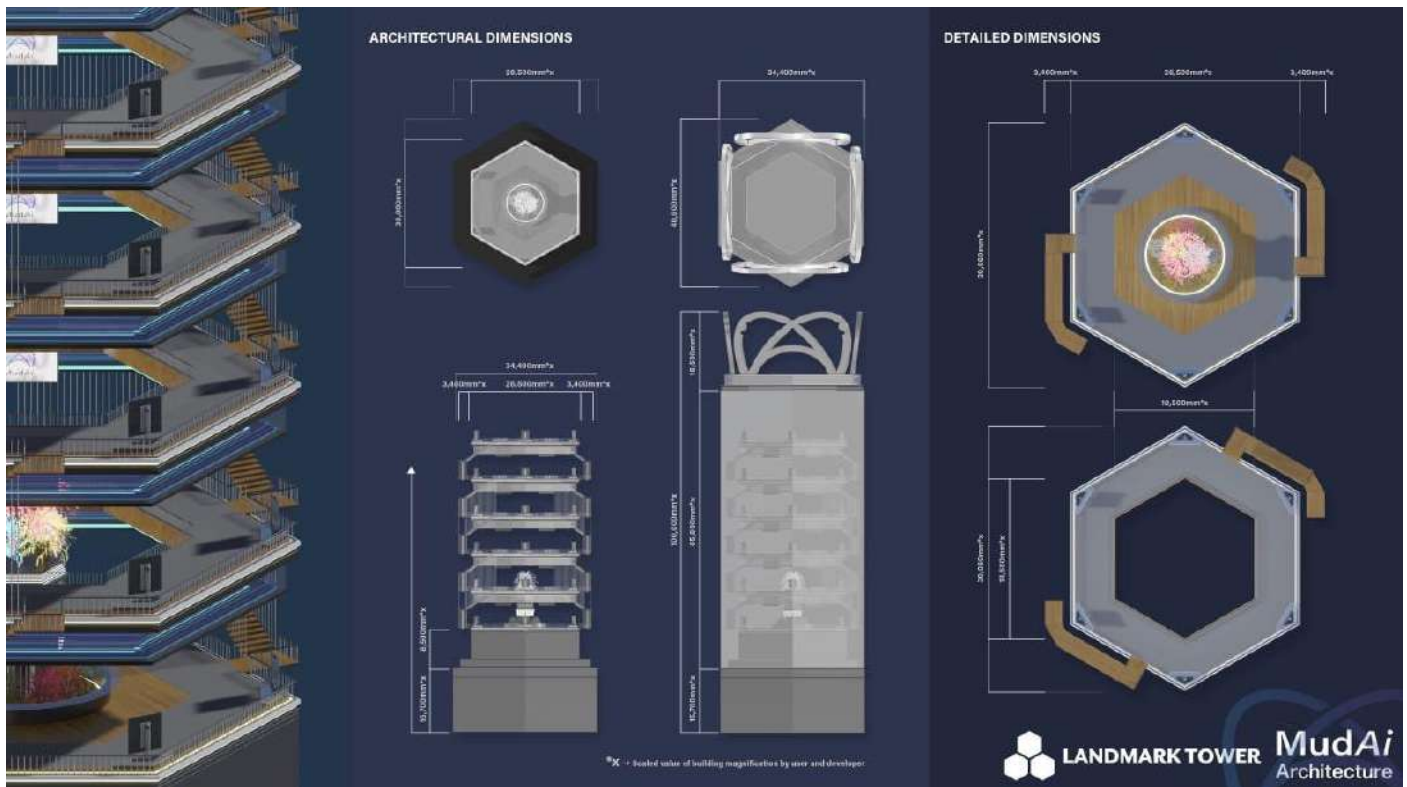
Figure 10. Advertising Utilizing MudAi-City's Space

3.3.3. MudAi personalization

Constructing a Pseudo Personality through Artificial Intelligence

The MudAi platform offers an innovative way for users to enhance their presence in the digital space. At its core is the concept of a "pseudo personality," which functions as a user's digital alternate self. Built using cutting-edge AI technology, this digital avatar has the capability to learn and analyze a user's preferences, behavioral patterns, and even emotions.

Rather than being a mere static image or icon, this digital avatar acts as an active alter ego for the user in the electronic space. It supports a wide range of activities, from information exchange to deep interactions with other users, and even task automation or work delegation. Through interactions with MudAi's AI, it learns the user's daily actions, choices, emotions, and reactions. This learning process is continuous, enhancing the AI's understanding and adaptability to the user over time.

In the digital space, especially in the ever-expanding metaverse, such AI-controlled digital avatars can interact more effectively with other users, information, and digital services. A unique feature of MudAi is that users can have not just one, but multiple digital avatars. This allows for different avatars to be used according to different scenes or purposes, such as business, private, or hobbies. Intriguingly, in the future within MudAi's metaverse, there's potential for digital avatars to create new avatars or "crossbreed" with other avatars to produce ones with new characteristics and abilities. This is anticipated to promote the formation of new communication and interactions as a natural growth and evolution of the digital space ecosystem.

Figure 11. Creation of MudAi digital profile

3.3.4. MudAi messenger

An Advanced Tool for Instant Communication

MudAi Messenger is a state-of-the-art tool designed for users to communicate instantly. It caters to all communication needs, from basic text chats to clear, high-quality voice and video calls. It also boasts a robust group chat feature, facilitating smooth information sharing and conversations among friends, colleagues, or family.

However, the true revolution of the MudAi Messenger lies in its integration with the aforementioned digital avatars. This messenger is designed with the active utilization of the user's digital avatar in mind. For instance, even when you're busy or temporarily offline, your digital avatar can respond to messages and exchange information on your behalf, significantly reducing missed communications or information delays.

Furthermore, since this digital avatar learns the user's preferences and behavioral patterns, it can communicate efficiently and appropriately on your behalf. For example, in response to a lunch invitation from a friend, it can generate the optimal reply based on your schedule and preferences.

Additionally, since MudAi Messenger allows users to have multiple digital avatars, different avatars can handle different communications based on their purpose or role. For instance, a business-related avatar might handle work communications, while a private avatar manages interactions with friends and family.

MudAi Messenger aims to transcend traditional messenger apps, striving to be a next-generation communication tool. With the evolution of AI technology, it's expected to achieve more human-like and efficient communication.
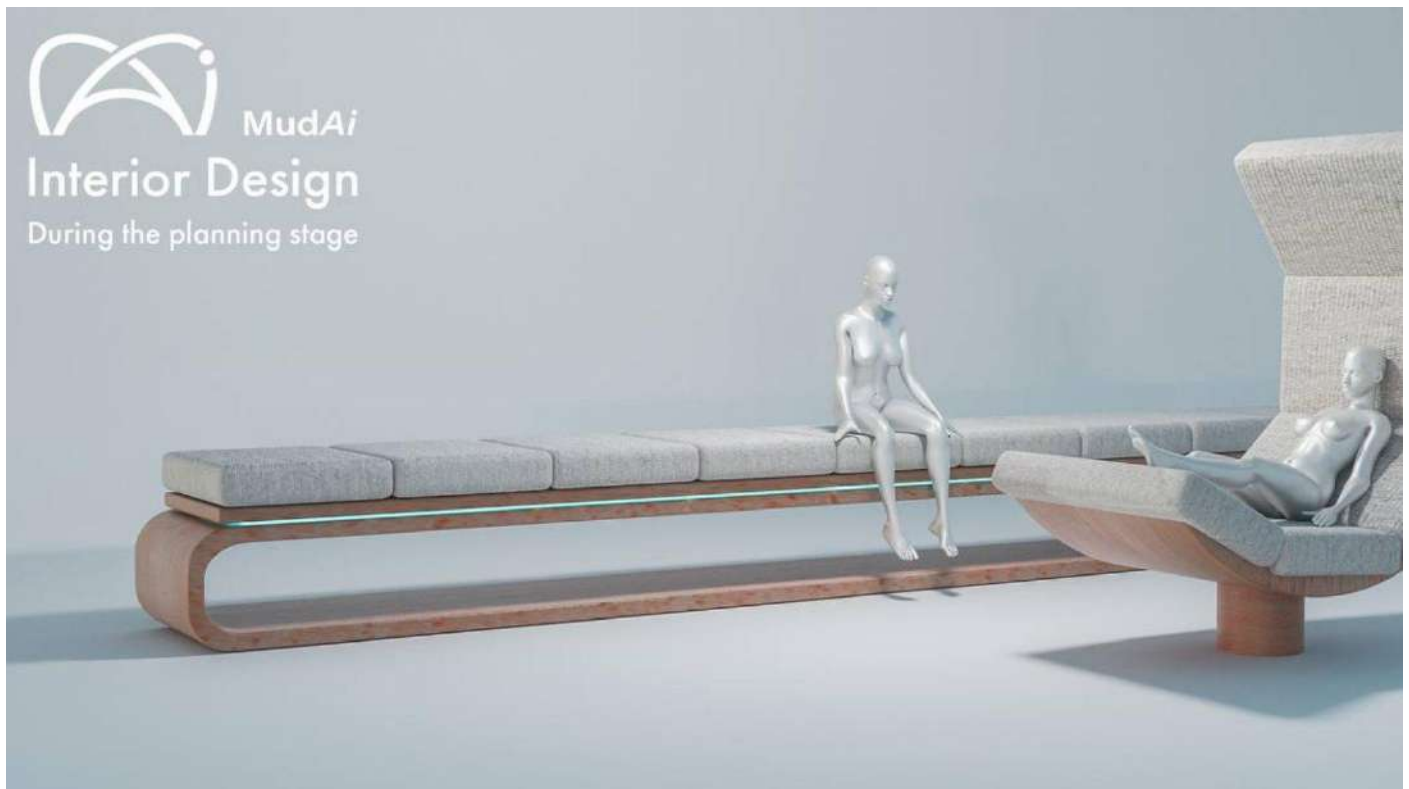
3.3.5. MudAi Key Concept

Figure 12. MudAi Key Concept

Bridging Web3 Technology and Personalized AI for an Enhanced Metaverse Experience

MudAi App

While being structured as a simple mobile application, MudAi aims to incorporate Web3 technology. By offering a login feature through other wallet applications, it realizes the Web3ization of the application, protecting users' digital identity and asset security.

MudAi performs custom fine-tuning to the provided APIs, and when users personalize AI, it adopts a "memory" approach rather than the traditional "learning" approach. This innovative method academically records the process of users personalizing AI, and ultimately reveals the process of forming a pseudo-personality by the personalized AI. Through this, MudAi aims to promote the growth and evolution of personalized AI through interactions with users, providing a valuable experience for users.

This approach aims to create new digital experiences through the fusion of AI technology and Web3 technology, with MudAi driving innovation in this field.

Utilization of Pseudo-Personality in MudAi Metaverse

The pseudo-personality established through the above process plays a role in controlling avatars on behalf of users within the MudAi metaverse. This allows users to save time and effort in directly operating avatars on the metaverse. Instead, the AI controls the user's avatar, acting on economic activities and social interactions within the metaverse.

This system enables the user's digital avatar to continue activities automatically in the metaverse while the user spends time on other activities in the real world. The adoption of pseudo-personality ensures a continuous presence and activity for users within the economic ecosystem of the metaverse, consequently increasing opportunities for acquiring and exchanging digital assets, as well as social networking opportunities.

MudAi aims to enhance users' metaverse experience using AI technology and explore the possibilities of the new digital economy. By offering innovative ways for users to personalize and streamline their activities in the metaverse, it contributes to the development of the metaverse economy and the improvement of user engagement.

3.4. MUDAI (MudAi Token)

3.4.1. Token Model

Figure 13. MUDAI Utility Token Use Cases

$MUDAI, an Ethereum-based utility token, serves as a pivotal digital asset within MudAi's avant-garde metaverse ecosystem. Available for acquisition on digital asset exchanges or as in-platform rewards, MUDAI tokens empower participants to carve out their niche in the virtual realm.

Beyond securing virtual spaces, these tokens facilitate transactions for NFT-based content creation. Participants can also amass MUDAI tokens through ad contributions and engage in seamless P2P transfers.

As stakeholders, they enjoy a suite of privileges within MudAi City. Through their multifaceted economic endeavors, ranging from content creation to advertising, the community bolsters the token's value, fostering a self-sustaining and prosperous ecosystem.

Figure 14. MudAi City Main Tokens

3.4.2. Token Economy

$MUDAI, a dual-purpose utility and governance token rooted in the Ethereum mainnet, is the lifeblood of MudAi's metaverse. Token holders are privy to a rich tapestry of benefits, from staking and gameplay to pivotal governance decisions. Within the MudAi metaverse, users can delve into a diverse content spectrum, encompassing games, conferences, and even shopping hubs. Moreover, leveraging $MUDAI, users can optimize their virtual real estate, granting access, curating content, and maximizing their LAND's potential.

Figure 15. Token Economy

With the imminent rollout of platforms like MUDAI Metaverse and NFT Market, the MUDAI token's centrality is underscored. Designed with a keen focus on NFT Use-Cases, MUDAI ensures sustained value, positioning itself as a cornerstone in the evolving digital landscape.

A. Payment

MUDAI tokens primarily serve as a medium of exchange in the Marketplace, enabling users to buy and sell LAND (virtual real estate based on ERC-721), avatars (unique characters based on ERC-1155), items (unique game items based on ERC-1155), and character attributes.

Furthermore, $MUDAI is employed as a versatile payment method for a range of services, including purchasing SBT, acquiring datasets essential for Ai personalization, and more. All transactions related to the Marketplace can be executed within its platform. A comprehensive breakdown of other payment utility features is detailed in the "Use Cases of $MUDAI Token" section.

B. Staking

MudAi is committed to fostering a sustainable token ecosystem by incentivizing continuous MUDAI token holding. Staking not only serves as a means to participate in governance but also offers stakers opportunities to partake in exclusive events and earn bonuses. Tokens committed to staking are rendered non-liquid, prohibiting transfers, sales, or unstaking for a predetermined period. These staked tokens grant holders the privilege to engage in governance votes related to the DAO.

MudAi has integrated a governance mechanism, allowing those with staked MUDAI tokens to vote on various ecosystem-related change proposals. The weight of each staked MUDAI token carries voting value, with larger stakes exerting greater influence on voting outcomes. Further intricacies of this mechanism are elaborated in the subsequent sections.

C. Governance

MudAi City envisions decentralizing the MudAi metaverse further, aiming to diminish the involvement of the MudAi team in the future by implementing a DAO mechanism for decentralized policy-making. Here, MUDAI tokens acquire Voting Power (VP) and are staked in the DAO for participation in pivotal voting proposals. The primary objective and utility of MUDAI tokens lie in governance participation. By introducing a governance voting system to the MudAi platform, stakers with staked MUDAI tokens will be empowered to vote for or against various proposed changes concerning the MudAi ecosystem. Each staked MUDAI token holds voting value, allowing stakers with larger stakes to significantly influence voting outcomes.

Phases of Governance:

1. **Initial Phase:** As a foundational step towards constructing a full-fledged decentralized mechanism, an initial version of the governance dashboard (DAO) will be unveiled. This dashboard facilitates user participation in voting based on policy decisions for the MudAi ecosystem. Staking functionalities will be activated through a separate UI, granting users VP. At this juncture, voting will be restricted to topics like new world concepts, fee reductions, DAO Funds functionalities, and other minor categories.

2. **Upgrade Phase:** In this phase, the DAO's UI/UX will undergo enhancements, with the staking feature receiving substantial upgrades. To realize this, more intricate on-chain voting concerning policy decisions will be conducted. Adjustments to the number of staking tokens required for voting might be introduced.

3. **Final Phase:** MUDAI token holders will have the autonomy to modify the governance framework and allocate new items for voting. Proposals decided upon using VP in the DAO include governance voting agendas, usage of DAO Funds, token economy proposals, and other project-related proposals. VP signifies voting rights in the DAO, with participants able to exercise voting rights equivalent to their VP holdings. All transactions related to governance proposal submissions and voting will be transparently recorded on the blockchain.

Dynamic Community Development

The MudAi community is architecturally rooted in the principles of diversity and mutual respect, creating a space where users with differing opinions and values coexist harmoniously. However, as with any democratic mechanism, there are instances where the majority's preferences may clash with the minority's views. Following a voting round, the $MUDAI tokens are distributed to the users and proposers who backed the proposal with the most votes.

In such circumstances, the minority isn't left behind but empowered to form new communities, instating their unique governance structures. This ensures that the MudAi community continually evolves, splitting and merging to generate fresh values. The formation of communities within the MudAi Metaverse can be likened to a simulation of social

experiments, opening avenues for research. Thus, the MudAi Metaverse transcends its function as a mere social networking platform, holding profound implications for societal evolution.

AI Assistance for MudAi Voting

Leveraging the power of artificial intelligence, MudAi enhances the voting experience for its users. The AI system meticulously analyzes users' past behaviors and preferences, subsequently suggesting the most suitable voting options. Users can utilize these AI-driven recommendations to cast votes that genuinely resonate with their inclinations, ensuring that their voice within the community is both informed and impactful.

DAO Funds

In the MudAi token ecosystem, a portion of token transaction fees, NFT trades, and creation fees accumulate in the DAO Funds. As MudAi plans a phased decentralization, post full decentralization, MUDAI token stakers will oversee the DAO Funds management. The tokens allocated and accumulated in DAO Funds include NFT creation and transaction fees, NFT consumption, and burning fees.

As new content is continually released and popular content accumulates, the volume of tokens amassed in DAO Funds will progressively increase. In the future, fees allocated to DAO Funds might expand based on the services MudAi platform offers.

Examples of DAO Funds Usage:

- **Liquidity Provision**: Token holders can vote to use a portion of the DAO Funds to pair with different tokens on decentralized exchanges like Uniswap and PancakeSwap, thereby providing liquidity.

- **Ecosystem Expansion**: Token holders can vote to allocate a portion of the DAO Funds for specific services aimed at enhancing the value of the ecosystem. Examples include listing on exchanges, marketing initiatives, partnerships, and promotional services.

- **Development Fund Allocation**: Token holders can vote to disburse a portion of the MUDAI tokens for the development of third-party tools and services that will augment the value of the MudAi ecosystem.

- **Other Proposals**: Token holders have the liberty to propose other innovative uses of the DAO Funds that can potentially elevate the value of the ecosystem.

D. Data staking

In the digital realm, users have the discretion to either disclose or withhold datasets essential for establishing their identity. MudAi has adopted the concept of "data staking," a system where users are rewarded for staking their data in a library. By making public the datasets used for personalizing their Ai, users can earn $MUDAI as rewards. Essentially, your actions within MudAi directly translate to value.

MudAi has constructed a library aggregating datasets from multiple digital entities. Access to this library can be purchased using $MUDAI, paving the way for targeted advertising and potential collaborations between MudAi and advertisers.

Users who opt to disclose their datasets are recognized for their contributions, receiving rewards in the form of $MUDAI. This reward system empowers users to derive tangible value from their digital activities, which can be meaningfully utilized in real-life scenarios. MudAi is pioneering a new economic sphere that enriches users' lives beyond the digital-reality divide.

Given the detailed nature of such data, encompassing individual preferences and behavioral patterns, there are potential privacy concerns. MudAi prioritizes user privacy, ensuring transparency in data usage and sharing, thereby fostering a secure and trustworthy environment for users.

3.4.3. Use Cases of $MUDAI Token

MudAi places paramount importance on fostering a robust and sustainable token economy. From its inception, we have continuously invested in the development of an in-game economy to ensure users can enjoy the metaverse while reaping optimal rewards. Consequently, the MUDAI token, serving as the utility and governance token of the MudAi metaverse, has generated a plethora of use cases that energize the entire game ecosystem. Let's delve into some prominent applications of the MUDAI token across the platform.

A. MudAi Metaverse

Upon creating their avatar for the first time and connecting to the MudAi Metaverse, users can access the MudAi Tower, which functions as the main lobby. Users can navigate their character to a portal, allowing them to teleport to a chosen MudAi World. Once in the MudAi World, users can interact with various content showcased in the MudAi Spaces within the metropolis. After completing the purchase of MudAi Space during a LAND sale, users can customize their LAND according to their preferences. They can utilize intuitive 3D editing tools to modify the terrain. However, only pre-purchased ITEMS can be used, necessitating users to make purchases on the NFT marketplace, thereby increasing the demand for inventory, materials, and items. Moreover, if users wish to operate a business within their MudAi Space or enable payment options, they can activate these settings and attach purchase links to 3D objects. Here, visitors to a creator's MudAi Space can make payments using MUDAI tokens and purchase the offered goods or services.

B. NFT Marketplace

As mentioned earlier, the MUDAI token is a crucial utility payment unit used on the NFT marketplace. Users can secure their own MudAi Space and showcase their content within the MudAiI City by purchasing LAND, which can be acquired using MUDAI tokens. Users can access the MudAi Metaverse, create a personalized character defined by available wearable items and attributes sold on the NFT marketplace.

3.4.4. MudAi business model

A. Innovative Advertising Revenue

MudAi aims to boost its revenue by integrating advertisements within the metaverse, setting it apart from conventional advertising methods. Establishing a proprietary world in MudAi revolutionizes traditional business marketing techniques. Here's a glimpse into this newfound potential:

By constructing their own world, businesses can offer advertising spaces to partner companies and other businesses, establishing a new business model. This model might involve agreeing on advertising fees with advertisers, such as an annual fee of 100 thousand dollars, which can be increased as user numbers grow. Additionally, intricate advertising worlds can be created within the main world and offered to advertisers.

One might wonder about the relevance of displaying ads if users aren't present in the metaverse. MudAi addresses this concern by deploying AI to act as avatars in the metaverse on behalf of users, processing this information and presenting it to them. This approach paves the way for a novel marketing strategy distinct from traditional methods.

Avatars provide personalized data about users, including their preferences, interests, income, family structure, and age. By utilizing blockchain wallets for login, even users' financial statuses can be discerned. This wealth of information facilitates highly targeted advertising. Furthermore, major exchanges, leading Web2 companies, and prominent crypto businesses have committed to establishing worlds on MudAi. This move is anticipated to attract their user bases to these worlds, offering a competitive edge over conventional SNS marketing.

Additionally, worlds can be created where entry is restricted unless specific NFTs are held. This feature can be used to enhance the value of company-issued NFTs by granting access rights to MudAi worlds or by issuing limited tickets for events in the form of NFTs, generating revenue.

In conclusion, MudAi is not just a metaverse. Through AI-driven information processing, it safeguards users' valuable time while delivering accurate information, directly influencing corporate marketing strategies. Considering these attributes, building a proprietary world on MudAi emerges as a potent strategy for unlocking new business opportunities.

B. MudAi Subscription

Initially, MudAi will attract a few thousand users through marketing, offering exclusivity through SBT. However, once the user base surpasses 10,000, premium features will be introduced in the app. These premium features, priced at approximately $10 per month, will include ad removal and unlimited daily chat sessions with AI. It's projected that about 10% of free users will transition to the paid version. With an anticipated user base of one million, if 100,000 users opt for the premium version, this could generate roughly $1 million in monthly revenue.

Furthermore, by interacting with AI, it's possible to acquire the personal data necessary to form a virtual personality. This data can be used to create another online persona, and it's envisioned that this will be sold to companies and research institutions conducting similar studies in a subscription format.

C. Hosting Events with Partners

MudAi also offers the capability to host real-world events. Past records indicate that even closed events can attract around 400 participants. Previous events have included VIP tickets priced at $1,000 and regular tickets priced at $50.

4. Product

MudAi envisions boundless possibilities across the entire metaverse industry, showcasing a myriad of virtual reality applications. The services currently offered play a pivotal role in shaping the early ecosystem of MudAi's virtual reality

metaverse. Furthermore, MudAi is heavily invested in the VR domain and is in the process of developing a comprehensive browser application with VR capabilities. This browser is equipped with AI and blockchain technology, allowing users to chat, make calls, interact with AI, access the metaverse, and even engage in financial activities through blockchain, all within a single platform. While innovative applications on traditional devices like PCs and mobliles might feel familiar, VR offers a fresh perspective in a market poised for explosive growth, delivering unparalleled user experiences.

4.1. MudAi Metaverse

Leveraging advanced 3DCG technology, MudAi designs high-quality digital spaces. These realms serve as venues for users to embark on novel experiences and as stages for digital entities to thrive. The metaverse of MudAi acts as a "container" visually representing the actions and behaviors of digital entities. Here, AI-controlled digital entities coexist with user-controlled avatars, fostering dynamic interactions and offering users unprecedented experiences.

From a technical standpoint, MudAi employs UE5 for designing its digital spaces, enabling real-time high-quality rendering and ensuring users are immersed in their experiences. The avatars and assets within the metaverse, designed by Art Director Tsuki, possess a unique aesthetic that is bound to captivate users.

Users navigate the MudAi metaverse as avatars, engaging in activities such as walking, running, jumping, chatting, and transacting. With external devices like VR/MR, users can delve deeper into the immersive world of MudAi. Content creators can design worlds, buildings, assets, and communities, subsequently monetizing them within the metaverse. These digital realms can be exclusive to individual users or communities, or even rented out to others. MudAi aspires to be a platform where both content creators and users can reap the rewards of their contributions and actions. The seamless integration of MudAiSocialMedia and MudAiMessenger further enhances user interactivity. Ultimately, MudAiMetaverse is envisioned as a 3D social networking platform.

The MudAi metaverse also doubles as a venue for various collaborative events. Collaborative events with partner projects are currently in the pipeline. The quality of MudAi's metaverse has garnered high praise, leading to an influx of design requests from other projects and clients. By harnessing 3DCG technology, MudAi aims to redesign the digital society, with high hopes pinned on its potential to enrich people's lives.

Figure 16. MudAi Metaverse

4.2. MudAi AI

On the MudAi platform, users can possess a digital alter ego, termed a "pseudo personality." Constructed using cutting-edge AI technology, this pseudo personality can learn and analyze a user's preferences, hobbies, and behavioral patterns. This digital representation acts as a user's proxy in the electronic realm, facilitating information exchange, interactions with other users, and even task delegation. Specifically, through conversations with MudAi's AI, the AI learns and adapts to the user's characteristics and behaviors. This continuous learning process refines the AI's

accuracy and the "purity" of the digital alter ego. In digital spaces, especially the metaverse, these AI-controlled avatars can interact with other users and information.

A unique feature of MudAi is the ability for users to have multiple digital avatars, akin to having multiple SNS accounts, each customizable and operable for different purposes. MudAi's AI doesn't merely create a digital representation; it serves as a consultant and agent, conversing and collaborating with users. Accessible to any user holding SBT, MudAi AI is designed to be a true partner.
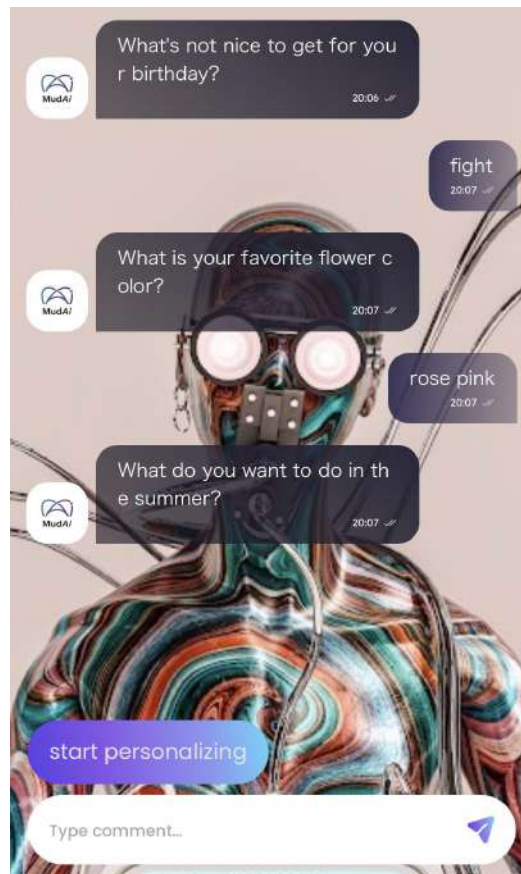
Figure 17. MudAi AI

4.3. VR game (Currently under development)

"BAD TOWN" is a proprietary game, an FPS (First-Person Shooter) that accommodates up to eight players simultaneously. The game offers two modes: PVE (story mode) and PVP (versus mode). MudAi City, with its familiar backdrop, has developed games that are accessible and enjoyable for all, enriching the ecosystem with captivating game content. Plans are also underway to host national gaming tournaments using the game content, which will significantly contribute to the growth of the VR game content market.

Figure 18. VR game

4.4. VR theme park (Currently under development)

The VR Theme Park, built upon the foundational technology of "Blockbuster VR," offers a realm where users can immerse themselves in a variety of virtual reality content, such as "Adventure Shooting Games," "Aquarium," "Space," and "Jurassic World." Beyond these attractions, the park also features a balanced mix of fun and educational content, ensuring that family members of all ages can find something to enjoy.

Figure 19. VR Theme Park

VR Shooting Adventure

With the introduction of the wireless vibration PP GUN, the limitations of traditional wired systems have been eliminated. This allows users to move freely while playing, enhancing the immersion of the game and providing a realistic FPS experience. The game is structured across three episodes, each offering a diverse narrative experience.
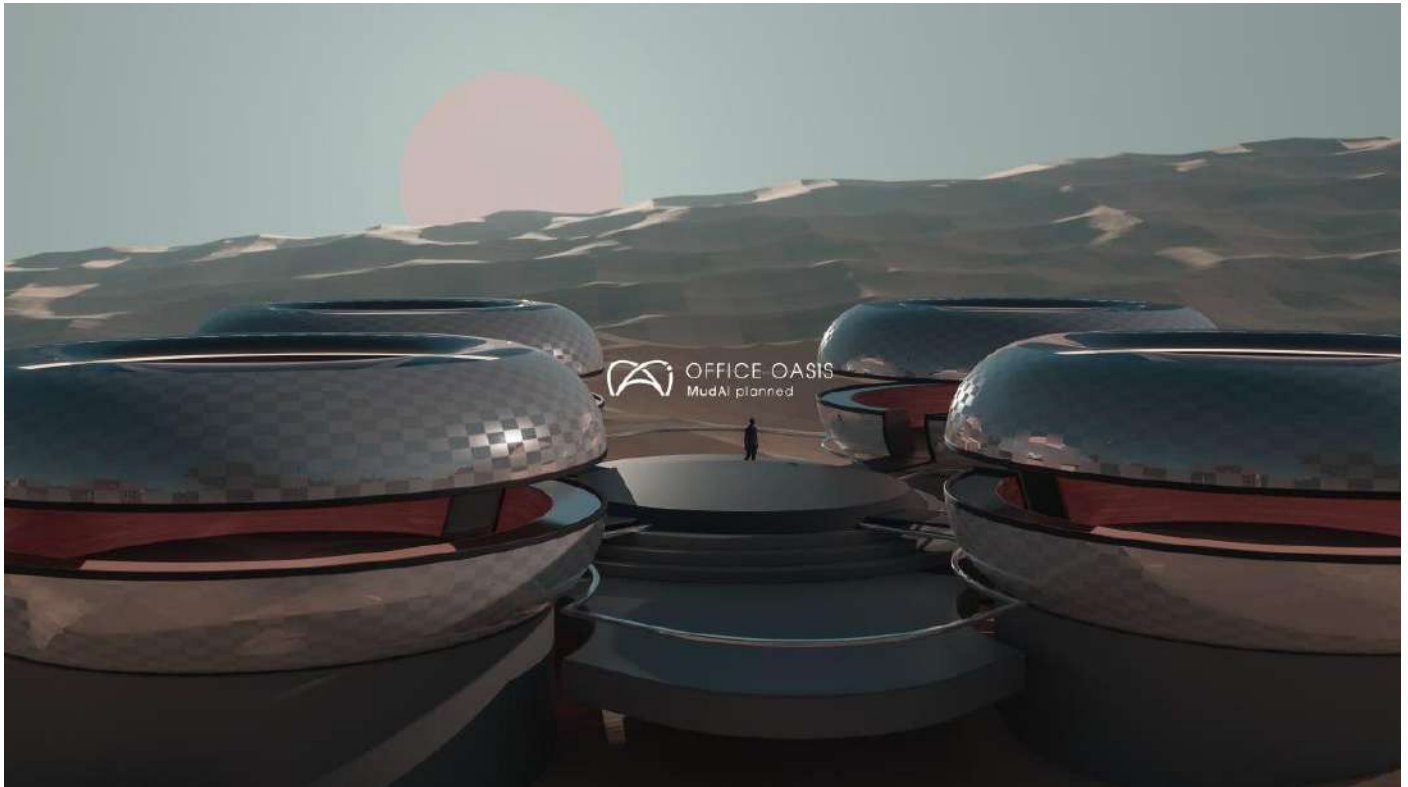

Figure 20. VR Shooting Adventure

VR Jurassic World

Step directly into the habitat of dinosaurs in this VR space. As you wander around, it feels as if you're genuinely interacting with these prehistoric creatures. Users can touch, feed, and even show affection to the dinosaurs. The content includes thrilling courses, such as crossing a suspension bridge over boiling lava. Designed for all age groups, the game allows mutual recognition among users within the game, ensuring a safe playing environment. Additionally, an educational program is integrated, teaching users about the names and characteristics of different dinosaurs.
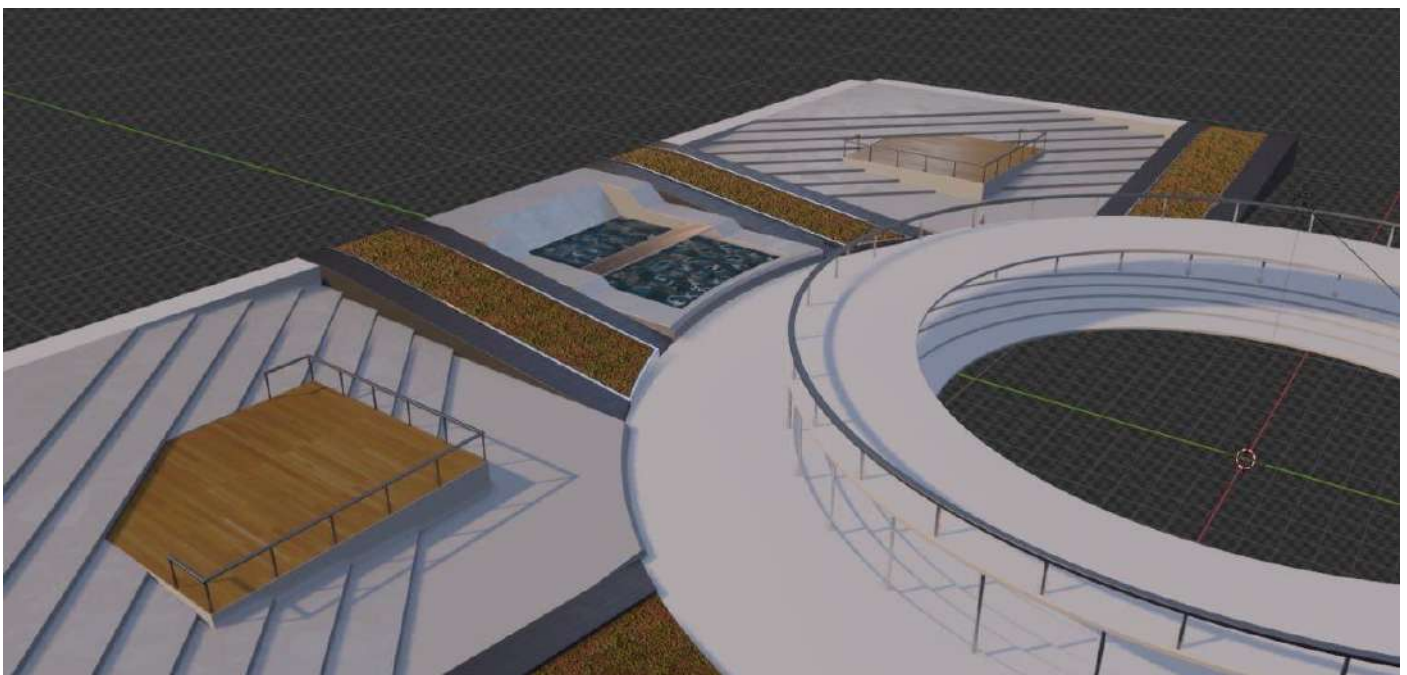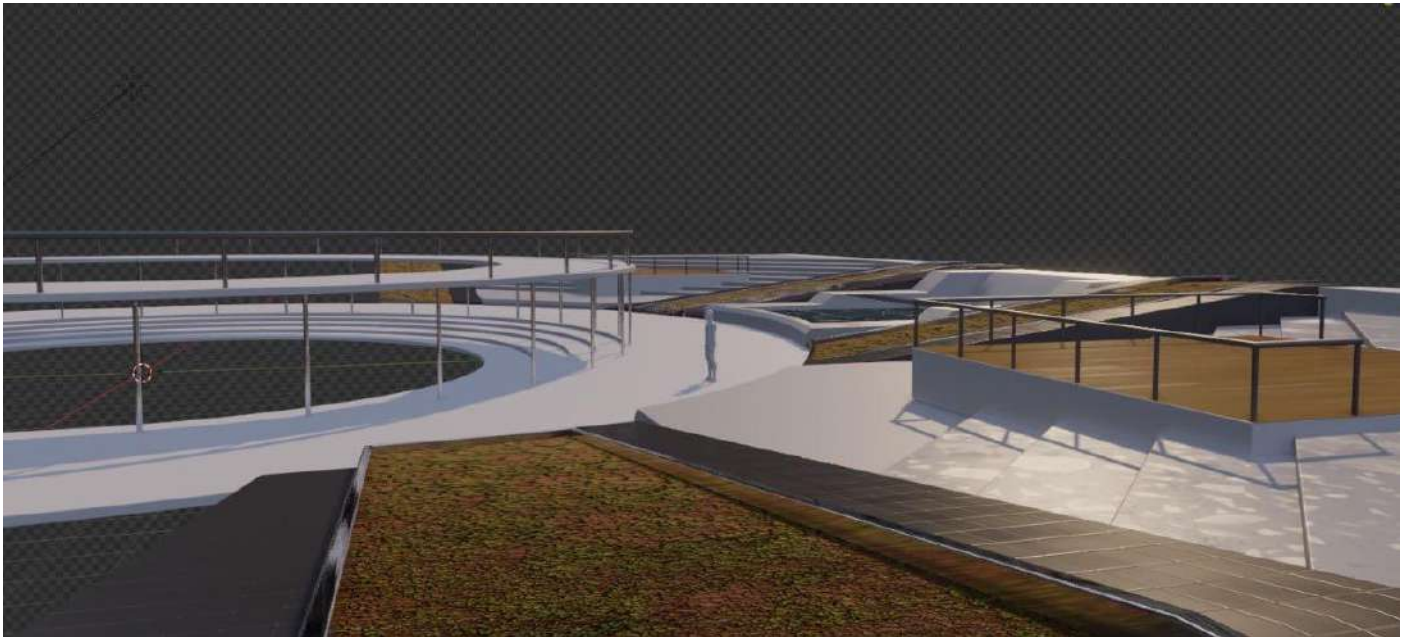

Figure 21. VR Jurassic World

VR Aquarium

This is not your typical aquarium experience viewed from the outside. Dive directly into the water and interact with a variety of marine life. This new VR content transcends the physical limitations of traditional aquariums.

VR Space

The vast, uncharted expanse of space, a realm not easily accessible, is brought to life in VR Space. Through this VR content, users can plunge directly into the cosmic void they've only imagined or seen in pictures, feeling the mysteries of the universe.

4.5. Military Training (Currently under development)

Weapon Disassembly and Assembly

Using the weapon VR training system content, troops can enhance their understanding tailored to their specific skills. Through the competitive training system, the effectiveness of military training can be improved, and preparation time for training can be reduced.

Figure 22. VR Military Training - Weapon Disassembly and Assembly

Shooting Training

Through various courses designed to simulate real combat scenarios, users can enhance their focus, maximizing the effectiveness of the training.

Figure 23. VR Military Training - Shooting Training

Mock Battle Training (Virtual Combat Training)

After preliminary training in weapon disassembly and assembly, shooting training, and individual combat training, troops undergo mock battle training to replicate real-life scenarios, maximizing the army's combat adaptability. Traditional mock battle and urban combat training involve significant costs and time, including constructing spaces, facility investments, and troop movements. However, with VR's ability to replicate various environments and combat situations, both efficiency and effectiveness can be achieved. This system enables tactical and spatial training based on real combat scenarios.

Figure 24. VR Military Training - Mock Combat Training

Military Firefighting Simulation Training

VR can replicate various situations with real-world constraints, such as physical, temporal, cost, societal, and safety. This allows for a realistic reproduction of fire incidents, where users can experience the use of fire extinguishers and all related equipment directly. This ensures unrestricted, near-real firefighting training.

Figure 25. VR Military Training - Military Firefighting Simulation Training

Military Medical Simulation Training

In virtual reality, various emergency scenarios can be replicated. While experiencing VR, users can cultivate medical response capabilities based on anatomical data and trauma. This can be integrated into the conscription education system, enhancing medical expertise.

4.6. Metaverse MICE Industry (Currently under development)

Metaverse MICE Industry in the Post-COVID Era

Following the World Health Organization's (WHO) declaration of the COVID-19 pandemic, the MICE industry felt a more significant impact than most other sectors. Global IT companies like IBM and Oracle have downsized corporate meetings to non-face-to-face video conferences. Facebook and Google have either switched their annual developer conferences from January to March to online formats or have canceled them entirely. Before the COVID-19 pandemic, the global MICE (Meetings, Incentives, Conferences, Exhibitions) industry was a promising growth sector, especially for emerging markets. MICE events offered countries the opportunity to showcase their facilities and infrastructure to the global community through regional and international gatherings. However, the emergence of the COVID-19 pandemic in early 2020, along with subsequent worldwide lockdowns and travel restrictions, abruptly halted this trajectory. The MICE industry has suffered immensely from the pandemic and might potentially be one of the last to make a full recovery.

Facing the post-COVID era and the impending crisis in the MICE industry, the MudAi team proposes an online Metaverse MICE industry incorporating virtual reality as a new turning point for the offline MICE industry. This proposal aims to unlock new possibilities for the MICE industry through the integration of online and offline experiences.
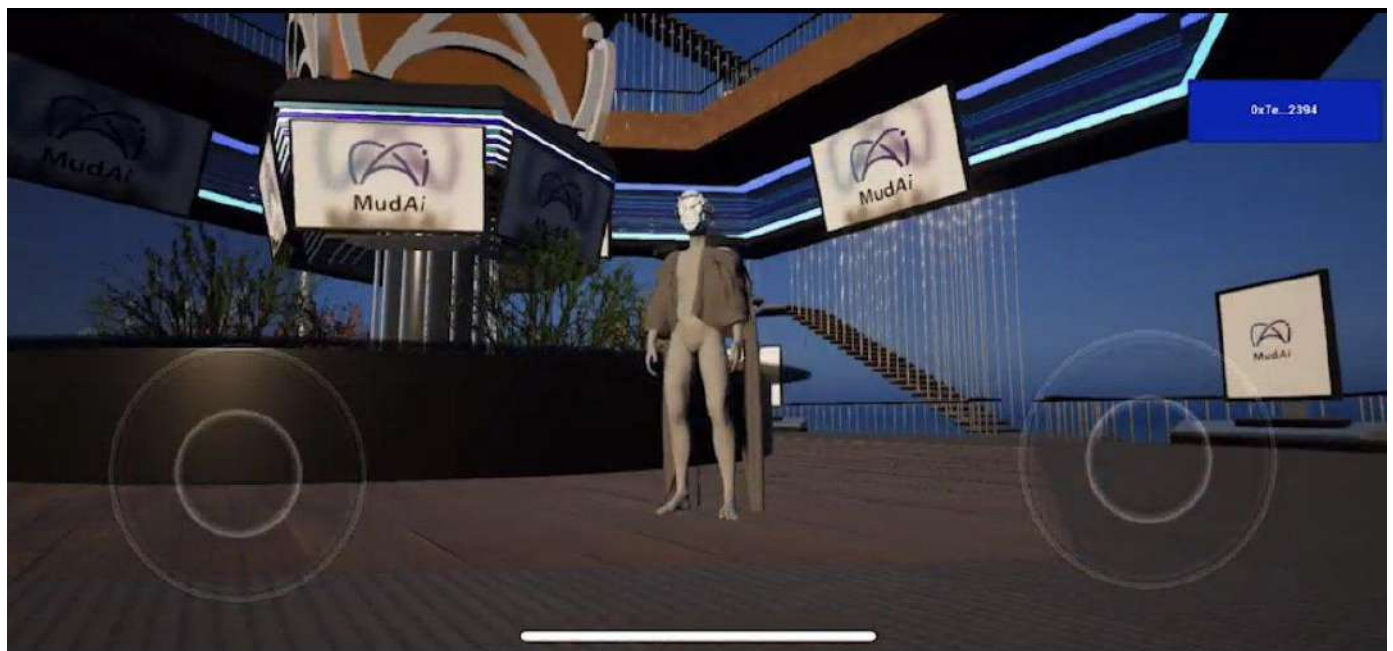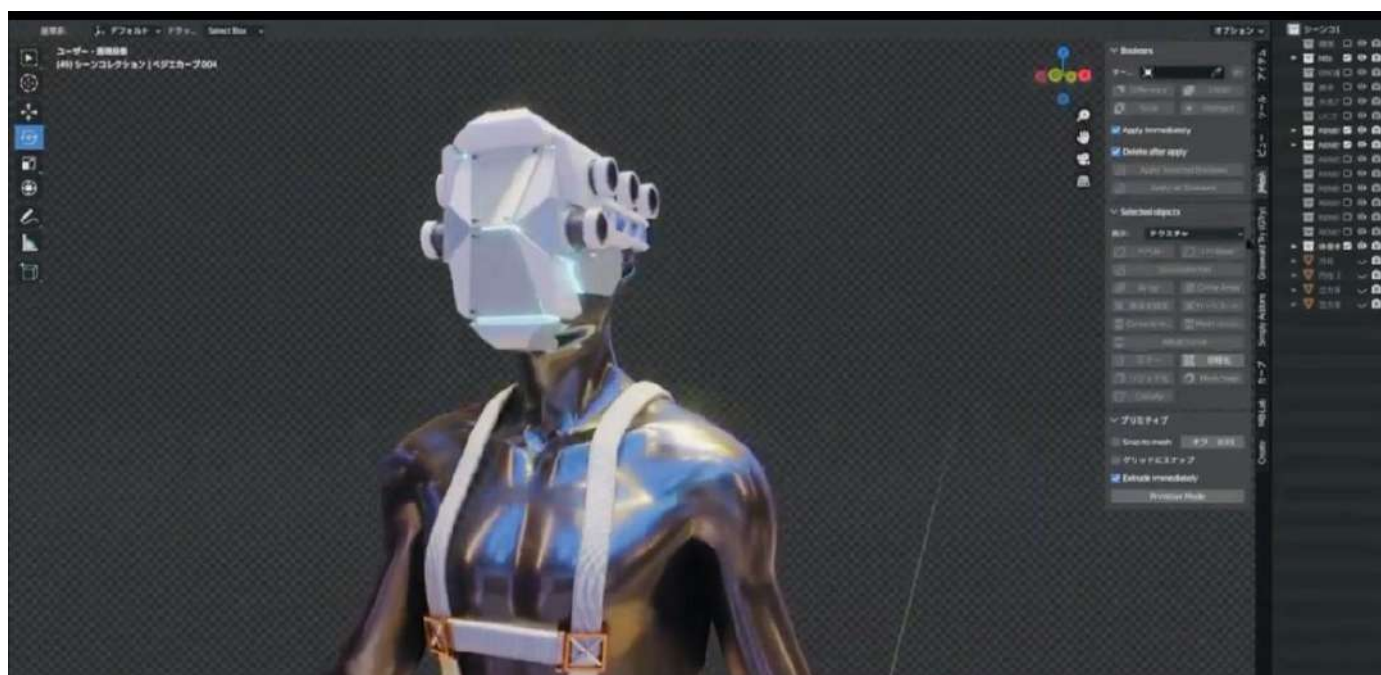

Figure 26. Online Metaverse MICE Exhibition

Figure 27. Live-action Scan 3D Modeling

6. Roadmap

2023 Q4

- Exchange Listing: Listing of MudAi's $MUDAI token on CEX.

- Core Technology Development: Development and optimization of MudAi's core technology, focusing on artificial intelligence and pseudo personality formation using AI.

- Initial Market Research and Analysis: Understanding MudAi market trends, competitor analysis, and target customer along with AI research and trends collection.

- Marketing and Promotion Strategy Deployment: Deployment of MudAi marketing and promotion strategies.

- Mobile and Desktop Application Development: Development of MudAi mobile and desktop applications.

- Platform Beta Release: Release of MudAi platform beta version and collection of initial feedback.

- User Feedback Analysis and Improvement: Analysis and improvement of user feedback on MudAi platform.

- User Interface Optimization: Optimization of MudAi platform user interface.

2024 Q1

- Local Events and Meetups: Hosting of local events and meetups with MudAi community.

- User Experience and Interface Improvement: Continual improvement of user experience and interface on MudAi platform, and exploration of AI usability.

- Incentive Program Deployment: Deployment of incentive programs on MudAi platform.

- Partnerships and Integration for New Features: Offering new features on MudAi platform through partnerships and integrations.

2024 Q2

- Global Community Events and Hackathons: Hosting of global community events and hackathons, including AI technology hackathons, with MudAi community.

- Entertainment Content in Metaverse: Provision of entertainment content within MudAi metaverse.

- Virtual Currency Trading Platform Launch in Metaverse: Launch of virtual currency trading platform within MudAi metaverse.

- Governance and Community Voting Mechanism Implementation: Implementation of governance and community voting mechanism in MudAi community.

2024 Q3

- Expansion of Virtual Spaces in Metaverse: Expansion of virtual spaces within MudAi metaverse.

- Infrastructure Expansion and Improvement: Expansion and improvement of infrastructure for MudAi platform.

- Provision of APIs and Tools for Developers: Provision of APIs and tools for developers on MudAi platform, especially AI development tools.

- Ecosystem Development and Developer Community Support: Advancement and support of developer community and ecosystem development for MudAi.

- User Education and Support Program Launch: Launch of user education and support programs, including AI education programs, for MudAi.

- Establishment of Sustainable Revenue Model: Establishment of sustainable revenue model for MudAi.

2024 Q4

- Growth and Sustainability of Virtual Economy in Metaverse: Fostering growth and sustainability of virtual economy within MudAi metaverse.

7. Partnerships and Investors

MudAi partnerships signify collaborations across various sectors, from technology and AI to education and government, highlighting the interconnectedness and cooperative spirit of these entities.

A. MudAi Developement

MANKIND GAMES has entered into a partnership for the "Implementation of joint development." MANKIND GAMES is a company that specializes in game development using Unity and Unreal Engine. They have a team of experienced members who can handle game and XR content development from design to release. They emphasize the importance of quality assurance in their development process and actively adopt new technologies to enhance development efficiency. Their business areas include game development, metaverse development, XR content development, 3D CG production, and 2D design. They have received offers from clients across various industries, including gaming, construction, manufacturing, medical, education, and recently, the metaverse. The company believes in the power of development engines like Unity and Unreal Engine to revolutionize content creation, allowing humans to focus on creativity and innovation.

B. Blockchain

Syscoin is a well-known blockchain platform. The collaboration emphasizes the integration of innovative concepts like Data set NFT library for AI personalization and NFT market into the MudAi ecosystem, positioning MudAi as a significant player in the SocialFi and Play-to-Earn metaverse space. Marketing collaboration such as AMA or co-organize events is also settled.

Rollux and MudAi collaboration is focused on research and development, preparing MudAi for integration with Rollux. Once integrated, MudAi will deploy their beta NFT, the Soul Bound Token (SBT), on LUXY_io.

Kucoin Community Chain (KCC) has partnered with MudAi to integrate the MudAi ecosystem into the KCC community. For marketing collaboration, AMA was carried out in KCC community.

C. Exchanges

Gate.io is a leading cryptocurrency exchange that offers trading services for over 1,400 cryptocurrencies. The platform emphasizes its commitment to security, efficiency, and transparency. Furthermore, Gate.io offers a variety of products and services, including spot trading, futures trading, and a platform for trading NFT assets. Marketing collaboration was settled as partnerships.

D. General Partnerships

Sec3 has entered into a general partnership, emphasizing cooperation, especially in the domain of AI knowledge.

For Indonesian community growth, MudAi has engaged partnerships with the following institutions.

Universitas Surabaya has a general partnership. The university, founded on March 11, 1968, is committed to prioritizing quality in education.

BINUS University is also in a general partnership. The university is recognized for its continuous pursuit of innovation and enterprise.

KOMINFO (Ministry of Communication and Informatics of Indonesia) has a general partnership. e.

Kementrian Pariwisata & Ekonomi Kreatif (Ministry of Tourism and Creative Economy of Indonesia) is in a general partnership.

8. Disclaimer

Please read the following carefully. The content below applies to all readers of this white paper. The MudAi White Paper (hereinafter referred to as the "White Paper") is provided based on the information available at the time of its creation. The content within the White Paper may be changed or updated at any time based on the discretion of the MudAi team, and there is no guarantee that the content will remain unchanged in the future. If you have any doubts about the content of the White Paper, it is essential to consult with an accountant, lawyer, or other professionals before making a purchase.

1. The primary purpose of this White Paper is to provide an overview and introduction to MudAi City, which includes the MudAi platform, currently under development by the MudAi team. This White Paper does not legally bind MudAi or the MudAi team, and no part of this document should be interpreted as an offer, solicitation, or inducement to buy or invest.

2. All information and analysis in this White Paper should not be used as a basis for investment decisions and does not constitute any form of investment advice or proposal. The forward-looking statements and data in the White Paper are subject to change for various reasons and may not always be accurate. There are no guarantees or promises regarding the content.

3. The MudAi team, including its officers, agents, employees, contractors, and sales partners, shall not be held responsible for any direct or indirect damages that may arise from: (1) the accuracy and completeness of the White Paper's content; (2) errors or omissions in the White Paper; (3) inability to access the White Paper due to unverified reasons; (4) any damages resulting from the use or non-use of the White Paper.

4. The content of MudAi, market fluctuations, technological advancements, changes in ICO or token regulations may lead to changes in the White Paper's content. However, the MudAi team wishes to inform readers that they are under no obligation to notify or report any changes, errors, or discrepancies in events, platforms, future plans, or estimates mentioned in this White Paper.

5. The information in this White Paper related to legal, tax, regulatory, financial, and accounting matters is not advice. Purchasing MUDAI tokens may result in material losses, including the loss of the physical assets paid for the MUDAI tokens. Before purchasing MUDAI tokens, buyers are advised to consult experts in tax, regulation, finance, and law about potential risks, benefits, and outcomes of MUDAI token transactions.

6. It is the responsibility of the MUDAI token buyer to determine the potential legal implications, including income tax, associated with acquiring and disposing of MUDAI tokens within their legal jurisdiction.

7. The publication and distribution of this White Paper are prohibited in countries where such actions are forbidden. The information in this document has not been verified or approved by any regulatory body, and any actions that violate the law will not be binding on the MudAi team. There is no guarantee that the publication and distribution of this White Paper comply with all regulatory requirements of its issuing country.

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Investment Risks

The MudAi team notifies buyers of various risks associated with purchasing MUDAI tokens, including potential losses equivalent to the purchase amount of MUDAI tokens. The accuracy of the risks and uncertainties described below is not guaranteed. Buyers acknowledge and agree to purchase by recognizing the inherent risks associated with MUDAI tokens, which come with no form of explicit guarantees.

1. Blockchain Risk: Due to congestion in the blockchain system, transactions may be delayed or invalidated. Specifically, the smart contract responsible for issuing and distributing MUDAI tokens is based on the Ethereum blockchain. The Ethereum protocol may have vulnerabilities, and various bugs, including those that could result in the loss of MUDAI tokens, may arise. Issues with the Ethereum blockchain could potentially cause material damage to the MudAi team or MUDAI token buyers.

2. Personal Information Risk: Users' personal information is essential for the distribution and control of MUDAI tokens. If this information is leaked, MUDAI tokens in the buyer's electronic wallet could be compromised. Furthermore, a third party could access the buyer's electronic wallet due to the leak of personal information and steal MUDAI tokens.

3. Security Risk: Like all cryptocurrencies, Ethereum is vulnerable to mining attacks such as "double-spend attacks" or "51% attacks". Hackers or malicious groups could potentially target the MudAi team or MUDAI tokens using these methods. If such blockchain attacks succeed, they could significantly impact MUDAI token transactions and the value of MUDAI tokens.

4. Electronic Wallet Compatibility Risk: To purchase or store MUDAI tokens, you need to use an electronic wallet that is technically compatible with MUDAI tokens. Using a different wallet might prevent access to purchased MUDAI tokens.

5. Force Majeure Risk: MudAi is still under development, and while the MudAi team is striving to develop and maintain the details as described in the White Paper, changes may occur due to various reasons, including legal, design, technological, and administrative regulations. The MudAi team is exempt from all liabilities for potential losses in MUDAI token value, liquidity damages, and other damages arising from unforeseeable factors.

6. We will not offer these activities to individuals in Singapore. This restriction will be clearly stated in our terms and conditions. We will monitor the locations from which users log in to ensure that these activities are not accessible from Singapore. While users from Singapore will not be able to participate in these specific activities within the ecosystem, they will still be allowed to purchase tokens. To enforce this restriction, we will use IP address and country blockers.