



ZENFI WHITEPAPER

I. INTELLIGENCE METAVERSE

Since the rebranding of Facebook into Meta, Metaverse has become the most resounding buzzword in the tech-world. Breaking the word down and looking into its prefix and suffix, we can somewhat grasp the notion of Metaverse as bringing our experience in this physical world (i.e., this universe) up and beyond (i.e., meta).

Current implementations of metaverse mostly focus on Video games and Virtual reality. Second Life, a video game debuting almost two decades ago and incorporating various aspects of social media into a persistent virtual world, is typically referred to as the first metaverse. Multiplayer online games with involved social functions are another example. Besides Video games, Virtual reality (VR) is another key beneficiary of the metaverse development. Facebook Horizon, a social VR launched in 2019, and Microsoft's 2017 AltspaceVR acquisition are among the first initiatives.

Nonetheless, the potential implementations and use-cases of metaverse go far beyond video games and virtual reality. In fact, the potential is as great as bringing a form of immortality to our every existence. Philosophically speaking, our existence comprises not only our bodies, but also souls and minds. While medical advances have made significant progress in prolonging our life-expectation, other technologies have brought to the table various discussions surrounding mind uploading, or whole

brain emulation, which represents one's mental state in digital form. Now, by fusing the power of exponential technologies which are Blockchain and AI, we can create an intelligence metaverse in which our minds dwell. Never before there is such a quest that is as ambitious and long-lastingly impactful as Intelligence Metaverse.

II. ZENFI PROTOCOLS

ZenFi is working towards an Intelligence Metaverse that is designed to preserve human beings' mind and intelligence beyond the limitations of the physical world and our own flesh. Ultimately, ZenFi protocols will enable each human being to create an emulation of his/her mental state (i.e., mind and soul), encode it into a digital form, and place it onto a decentralised and everlasting storage medium under a format of an intelligent NFT.

Such an intelligent NFT serves as a lively avatar of one's self in the metaverse.

A. Human Intelligence Emulation

A branch of research known as whole brain emulation (WBE), is studying the theoretical futuristic process of scanning a physical structure of the brain so accurately that the result can be deemed an emulation of the mental state. This emulation can then be transferred or copied into a digital form. Vocal supporters agree that tools and ideas needed to achieve mind uploading already exist or are currently under active development; they are in the realm of engineering possibility. Whole brain emulation is

considered a "logical endpoint" of computational neuroscience and neuroinformatics fields, both about brain simulation for medical research purposes. It is discussed in artificial intelligence (AI) research publications as an approach to strong AI and to at least weak superintelligence.

Among some futurists, Human Intelligence Emulation is treated as an important proposed life extension technology, and is humanity's current best option for preserving the identity of the species, as opposed to cryonics. This mechanism also provides a permanent backup to our "mind-file", to enable interstellar space travels, and a means for human culture to survive a global disaster by making a functional copy of a human society in a computing device. In short, Human Intelligence Emulation is a pivotal step towards a real Intelligent Metaverse.

B. Tokenized Intelligence

The digital transformation of one's self and intelligence needs to be stored on an everlasting storage medium so as to ensure its long-lasting existence. To this end, blockchain technology and more specifically, Non-Fungible Token (NFT) is a prime and most natural candidate. The end result would be an intelligent NFT.

An intelligent NFT is arguably the perfect lego for an intelligent Metaverse.

It is a distinctive AI-powered digital representation that has its own personality and blockchain-managed ownership. It is a perfect fusion of the two exponential

technologies, namely AI and Blockchain, that are set to transform the world that we are living in. As provably on-chain and temporally consistent representation of human minds, intelligent NFTs are unique forms of intelligences, with their own evolutionary trajectories.

C. Train-to-Earn

Once created, the aforementioned intelligent NFT may continue to learn, adapt and evolve, thanks to the technological advances in the field of Artificial Intelligence (AI) and Machine Learning (ML).

Typically, an intelligence model produced by AI or ML techniques is heavily influenced by the dataset on which the model is trained, as well as the meta-parameters that are used during the training process. Embedding the hash of such a dataset on-chain renders the entire training process publicly verifiable while at the same time tamper-resistant.

Furthermore, ZenFi protocols also provision a Train-to-Earn incentive model, drawing inspiration from the enormous success of Play-to-Earn in GameFi. One can either pay others to provide valuable dataset on which their own intelligent NFTs could learn and train. Alternatively, one can also let their well-trained intelligent NFTs interact with others, providing intelligent services, thereby earning service fee. While these interactions may initially be somewhat simple and restricted, as they further evolve, the intelligent metaverse starts taking shape.

D. Intelligence Services

In the current architecture, smart contracts or other autonomous agents inhabiting the blockchains are not able to communicate with the real world solely by themselves. The contemporary solutions are Oracles. However, these oracles will eventually pale in comparison with the intelligent NFTs that offer intelligence services in the intelligent metaverse.

III. ZENFI TOKENS

Native token to the entire ZenFi Protocols is the ZenFi token. Zen observes BEP-20 standard, and sports both utility and governance features.

A. Utility

- ZenFi Token enables the creation of intelligent NFTs. It can be deemed as the main oxygen of the ZenFi's Metaverse.
- ZenFi Token also facilitates transactions between intelligent NFTs, particularly in Train-To-Earn and Intelligence Services.
- ZenFi Token serves as a medium on which incentives can be built and implemented in the ZenFi's Intelligent Metaverse.

B. Governance

A true intelligent metaverse of course requires a form of decentralised and autonomous governance and administration. ZenFi Token serves to ensure that such decentralised governance is possible.

C. Specification

Standard: BEP-20

Total Supply: 42,000,000

Distribution:

- 45% for public offering
- 25% for incentives and ecosystem funds
- 20% for experimental R&D
- 10% for legality and compliance



No token allocation for the founding teams. However, a portion of service fee incurred once the ecosystem is functional will be deemed as ecosystem profit and vested by the founding team.

IV. ROADMAP

