



Neuralink Network

Whitepaper v1.3

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1. Introduction



1.1 Brief of the Project

This whitepaper presents Neuralink Network, a revolutionary blockchain platform purpose-built for the gaming industry. Neuralink Network harnesses the robust capabilities of the Cardano blockchain to establish a marketplace for game developers and a game publishing platform. By enabling the transfer of in-game assets across different games and promoting the funding of independent game projects, Neuralink Network aspires to transform the gaming landscape fundamentally.

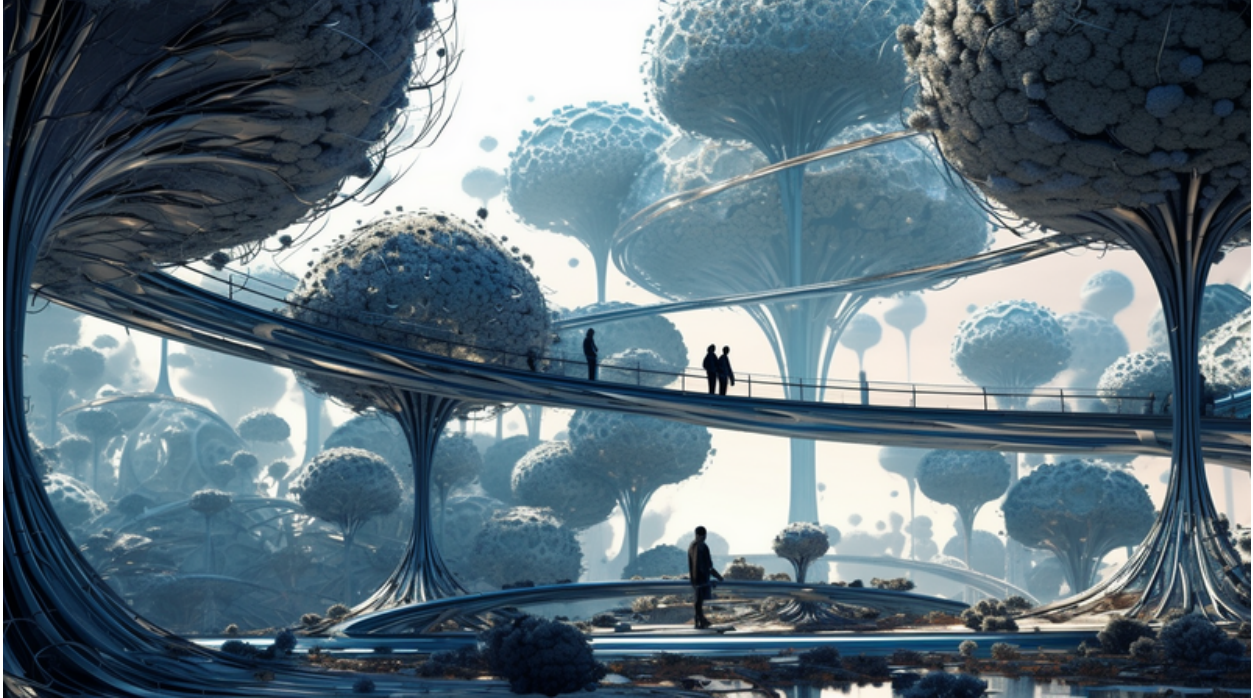
1.2 Purpose of the Paper

This whitepaper thoroughly examines Neuralink Network, outlining its structure, benefits, and unique features. We also detail its planned influential role within the Cardano network and the wider gaming industry. This document aims to engage a wide audience, including prospective investors, game developers, gamers, and anyone interested in our project's vision and mission. For more detailed information about Neuralink Network and its native token, \$NEURA, visit our official website: <https://neuralinknetwork.io>.

1.3 How to Read This Document

This document is structured to guide readers through Neuralink Network's unique proposition in a logical and easy-to-understand manner. It begins with explaining why Neuralink Network is built on the Cardano blockchain, followed by an in-depth look at the project's key offerings. Later sections delve into the specifics of the Neuralink Network's tokenomics, its marketplace for game developers, its game publishing platform, and its integral role within the Cardano ecosystem. We then explore the function of Neuralink Network's Decentralized Autonomous Organization (DAO) and the project's overall technology and security measures. Finally, the whitepaper outlines Neuralink Network's roadmap and offers avenues for participation and involvement.

2. Why Cardano?



2.1 Introduction to Cardano

Cardano is a ground-breaking proof-of-stake blockchain platform that brings a new standard in technology, security, and sustainability to decentralised applications, systems, and societies. It distinguishes itself with its commitment to rigorous academic research and formal code verification, fostering a robust and secure platform for development.

2.2 Benefits of Building on Cardano

Neuralink Network has chosen Cardano as its foundational blockchain due to its superior scalability, interoperability, and security features. Cardano's unique layered architecture allows for separating the ledger of account values from

the reason why values are moved from one account to the other, enhancing smart contract execution and data privacy. Furthermore, its proof-of-stake consensus algorithm, Ouroboros, provides the same security guarantees as traditional proof-of-work blockchains like Bitcoin but with a fraction of the energy consumption.

2.3 Hydra for Scalability and Speed

Neuralink Network utilises Hydra, Cardano's layer-2 scalability solution. Hydra enables vast improvements in scalability by creating "heads" or mini-chains for each user or set of users. Using Hydra ensures Neuralink Network can scale efficiently.

3. Project Overview



3.1 Project Goals

Neuralink Network is determined to transform the gaming industry by fostering a vibrant, decentralised marketplace and publishing platform for game developers and players. We aim to build an infrastructure that facilitates the movement of in-game assets across compatible games, creates opportunities for independent game developers, and unites a community of gamers, streamers, and influencers.

3.2 Unique Value Proposition

Neuralink Network's unique proposition lies in its comprehensive solution for the gaming industry: combining a marketplace for in-game assets, a funding

platform for indie games, a network for streamers and influencers, and an active participant in Cardano's blockchain network. Furthermore, the project facilitates community engagement through a Decentralized Autonomous Organization (DAO), allowing \$NEURA token holders to participate in platform decisions.

3.3 Key Features

Neuralink Network has a host of features designed to promote collaboration, innovation, and growth in the gaming industry:

- A marketplace for trading in-game assets
- Libraries for game developers to integrate their games with Neuralink Network
- A publishing platform for funding and co-owning the IP of games
- A DAO for decision-making
- Participation in Cardano's network as a sidechain for validating blocks

This combination of features positions Neuralink Network as a one-of-a-kind platform that can propel the gaming industry into a new era of decentralisation and interoperability.

(Reference: [Cardano Website](#), [Hydra Paper](#))

4. Tokenomics



4.1 Token Supply & Distribution

Our platform pulses with the lifeblood of its native token, \$NEURA. In an early phase, we pre-minted all tokens and devised a transparent distribution plan. With no minting or burning mechanism, we assured a stable and predictable supply, engendering trust in our project.

Listening to our community's feedback, we've recently adjusted the total token supply to align more closely with the successful Zhaka model. Our total supply now mirrors Zhaka's, standing at 495 million tokens.

We've distributed the total token supply as follows:

- **Total Supply:** We have 495 million tokens.

- **Reserved for Exchange Liquidity and On-Chain Operations:** We've allocated 50% of the total supply.
- **Give Back to the Community in the Form of Rewards:** We've dedicated 35% of the total supply to reward our community.
- **Normal Operation Costs, including Servers and Salaries:** We've earmarked the remaining 15% for these costs.

This adjustment allows us to maintain a sustainable economic model for the Neuralink Network, where most tokens bolster ongoing operations and reward our community, ultimately enhancing the network's value and resilience.

4.2 Use Cases of the Token

\$NEURA tokens are integral to Neuralink Network's ecosystem. They facilitate transactions within the marketplace, independent fund games, reward influencers, and grant holders the right to vote in the Neuralink Network DAO.

4.3 Reward Mechanisms

Neuralink Network validates blocks and earns rewards by serving as a Cardano sidechain participant. We plan to return some of these rewards to the \$NEURA token holders, fostering a vibrant, rewarding ecosystem.

4.4 User Referral Programme

At Neuralink Network, we deeply value our community's growth and our users' engagement. To facilitate this, we have implemented a user referral

programme that rewards members for their efforts in expanding our network by inviting new users to join.

This programme operates on a tiered system, offering rewards across six levels for each new user introduced to the platform. The reward percentages vary for each class, and they are structured as follows:

- Class 1: 6%
- Class 2: 4%
- Class 3: 3%
- Class 4: 2%
- Class 5: 2%
- Class 6: 3%

It's important to clarify that our referral programme is not associated with multi-level marketing schemes. It is a straightforward and transparent referral programme encouraging users to introduce new participants to the Neuralink Network. By doing so, we foster the growth of our user base, creating a more dynamic and diverse community.

5. Marketplace for Game Developers



5.1 Functionality & Benefits

Neuralink Network's marketplace is a hub that empowers game developers to sell their in-game assets outside their respective games. This platform provides developers a new revenue stream and offers gamers the unique opportunity to use their in-game assets across various games.

5.2 Libraries for Game Creation

We provide well-documented libraries to facilitate the integration of games into the Neuralink Network marketplace. These libraries help game developers to adapt their games for cross-game asset compatibility and transactions.

5.3 Trade of In-Game Assets

Our marketplace enables secure and transparent trading of in-game assets. Gamers can use \$NEURA to buy and sell assets, enabling a seamless transfer of value and resources across different games.

5.4 Cross-Game Compatibility

Neuralink Network promotes a new level of interaction within the gaming industry by enabling the movement of assets between compatible games. This innovative feature creates a dynamic and immersive gaming experience.

6. Game Publishing Platform



6.1 The Role of the Platform

Neuralink Network also operates as a publishing platform for indie games. We offer a funding mechanism and a launching pad for indie developers, democratising the game development and publishing landscape.

6.2 Funding Mechanism for Indie Games

We allocate a portion of the \$NEURA token treasury to fund promising game projects from independent developers. This support enables indie developers to secure the funding to bring their innovative game ideas to life.

6.3 Involvement of Streamers and Influencers

We understand the pivotal role that streamers and influencers play in the gaming community. Thus, we actively encourage their participation and reward their contributions to the promotion and popularity of the games on our platform.

6.4 Revenue Streams from Co-owned IPs

By co-owning the intellectual property of the games we fund, we generate an additional revenue stream. We invest the revenue from these IPs back into the platform to stimulate growth and development, incentivise the community, and reward \$NEURA token holders.

7. Participation in Cardano Network



7.1 Sidechain Functionality

We don't just build on the Cardano network – we interact directly with it using Cardano's sidechain functionality. Our active participation in block validation contributes to the overall security and decentralisation of the Cardano ecosystem.

7.2 Block Validation & Rewards

Our block validation efforts earn us rewards that we use to sustain the project and provide returns to our \$NEURA token holders. This active participation strengthens our position within the Cardano community and delivers tangible benefits to our users.

7.3 Benefits to the Cardano Network & the Project

Our active engagement in the Cardano network benefits Neuralink Network and enriches the Cardano ecosystem. By introducing a unique gaming-focused ecosystem, we broaden Cardano's use cases, increase its adoption, and showcase its versatility.

We can continue with the rest of the sections in the next iteration.

8. Decentralised Autonomous Organization (DAO)



8.1 Purpose of the DAO

At the heart of the Neuralink Network, our Decentralised Autonomous Organisation (DAO) ensures the platform's driving force is the community itself. By joining the DAO, \$NEURA token holders become more than participants – they become true platform owners.

This ownership is not merely symbolic. As DAO members, token holders shape the platform's evolution to align with community needs. They propose changes and vote on pivotal decisions. DAO members determine how to utilise the treasury and share profits.

All income the platform generates – whether from the marketplace, the publishing platform, or the Cardano block validation rewards – goes back to

DAO members. This shared profit model means that as the platform expands and succeeds, so does its supportive and contributing community.

In essence, DAO membership equates to a genuine partnership in Neuralink Network's progress, embodying our belief that those who help grow the network should benefit directly from its success.

We will explore the roles and responsibilities of DAO members and the decision-making and reward-distribution mechanisms in the following sections.

8.2 Role in Platform Decisions

DAO members can propose changes and vote on key decisions, including new features, funding of indie games, and allocation of project resources. Each member's voting power corresponds to the number of \$NEURA tokens they hold.

8.2 Role in Platform Decisions

A key role of DAO members is their ability to influence platform decisions. This active participation is more than just a privilege—it's a responsibility that upholds the decentralised nature of the Neuralink Network.

8.2.1 Proposing Changes

DAO members can propose changes to the platform, acting as a source of innovation and improvement. These proposals can range from minor modifications to significant overhauls to enhance the network's functionality, usability, or value.

8.2.2 Voting on Key Decisions

Decisions within the Neuralink Network are made democratically, with each DAO member entitled to vote on various key issues. These include introducing new features, determining the direction of platform development, or deciding which indie games to fund. DAO members help shape the platform's future by actively participating in these decisions.

8.2.3 Allocation of Project Resources

The allocation of Neuralink Network's resources heavily depends on the decisions of DAO members. They actively choose how to use treasury funds and prioritise development tasks, ensuring alignment with the community's interests and values.

8.2.4 Voting Power

Each member's influence within the DAO is proportionate to their ownership stake in the platform, reflected by the number of \$NEURA tokens they hold. This method ensures a fair system where the weight of each vote directly correlates to the member's investment in the platform.

8.3 Voting Mechanism

At Neuralink Network, we anchor our decision-making process in transparency and fairness. We execute the mechanism that enables democratic governance within the DAO through smart contracts on the Cardano network, which guarantees security and immutability.

8.3.1 Proposal Submission

Any DAO member can put forward a proposal for consideration. The process is as straightforward as submitting a detailed plan outlining the proposal's aim, benefits, and potential impact. It's a method that invites ideas and encourages open dialogue and collaboration among members.

8.3.2 Voting Process

When a proposal is open for voting, members actively express their support or opposition within a predetermined timeframe. Each member exercises their vote right based on their \$NEURA token holding, ensuring an equitable distribution of voting power within the community. The smart contract automatically enacts the result of the vote.

8.3.3 Transparency and Auditability

The voting process on the blockchain provides transparency and verifiability, assuring all members that each vote is counted and remains unalterable once cast. This immutability guarantees a fair and trustworthy voting mechanism.

8.4 DAO Member Rewards

To reward DAO members for their active participation and commitment to the platform, we've established a reward mechanism that ties the success of the Neuralink Network to the value received by its stakeholders. This mechanism serves to incentivise not only participation in decision-making but also the long-term holding of \$NEURA tokens.

8.4.1 Revenue Sharing

Neuralink Network distributes revenue to DAO members. A portion is directly allocated to DAO members when the platform generates revenue. Each

Member receives proportional to their holding \$NEURA tokens. This value and growth system ensures the platform's most dedicated support.

8.4.2 Encouraging Long-Term Holding

The reward system structure encourages members to hold onto their \$NEURA tokens. The more tokens a member has, the higher their share of the distributed revenue. This system promotes stability within the token market and incentivises long-term investment in the platform.

8.4.3 Reward Distribution

Distributing rewards to DAO members is conducted transparently and automatically via smart contracts on the Cardano network. This process ensures that every member receives their fair share of the revenue without manual intervention, minimising potential human errors or bias.

8.5 Acquiring DAO Tokens

Neuralink Network's DAO tokens symbolise the platform's shared ownership. They not only represent a member's stake in the network and confer upon them the rights and responsibilities associated with the network's governance. This section discusses how members can acquire DAO tokens and their associated benefits.

Members must lock a certain number of \$NEURA tokens into a smart contract to acquire DAO tokens. Specifically, a member must lock 1 million \$NEURA tokens for each DAO token. This locking mechanism contributes to the security and stability of our platform while also enabling us to reward members for their long-term commitment.

The locked \$NEURA tokens yield an annual percentage yield (APY) of 5.6%. When considering a lock-up period of 6 months, this corresponds to a return of about 2.8% over that period ($5.6\% / 2$). Hence, for every 1 million \$NEURA tokens locked, a member will receive approximately 28,000 \$NEURA tokens ($1,000,000 * 0.028$) as yield after six months.

This yield is paid into the member's default wallet once a month, amounting to approximately 4,667 \$NEURA tokens monthly ($28,000 / 6$). This reward incentivises members to contribute and stay committed to the network while rewarding them for participation.

The tokens have a lock-up period of six months. However, we offer members the option to unlock their tokens. To do this, they must declare their intention to unlock one week before the term ends. If they don't make this declaration, we automatically renew the lock-up for another six months, ensuring continuous rewards for the member.

Crucially, you cannot sell DAO tokens. We designed them not for trade or profit but to symbolise ownership in the Neuralink Network. If members decide they no longer want to hold a DAO token, they can return it to the DAO pool. This policy keeps our focus on collective decision-making and shared network governance rather than personal profit.

Through the DAO token, Neuralink Network underscores its commitment to a decentralised and democratic governance model. By acquiring DAO tokens, members can actively participate in shaping the future of our network while also reaping the rewards for their stake in its success.

9. Technology and Security



9.1 Technology Stack

We utilise Cardano's cutting-edge blockchain technology, including its layered architecture and the Ouroboros proof-of-stake consensus algorithm. We employ Hydra for scalability, ensuring our platform can handle high transaction volumes without compromising performance or security.

9.2 Security Measures

Security remains at the forefront of the Neuralink Network. We adopt the highest industry standards to safeguard user data and transactions. We rigorously test and audit all smart contracts deployed on the platform to guarantee they are free from vulnerabilities.

10. Roadmap



Neuralink Network has meticulously planned our platform's growth and development roadmap. Our key milestones include the following:

10.1 Zhaka Userbase Migration (June 2023).

In a strategic move, we successfully transitioned the extensive Zhaka user base from its existing digital infrastructure to a more advanced, cloud-based platform. This major endeavour demonstrated our dedication to innovation and customer service. The transition improved performance, strengthened security, and significantly increased user satisfaction.

10.2 Open Registrations (June 2023)

A crucial step in our journey, opening registrations, allowed new users to join our platform, promoting growth and diversity within our community. We have designed a seamless registration process with a user-friendly interface to facilitate smooth account creation for potential users.

10.3 Full Whitepaper Publish (July 2023)

The publication of our comprehensive whitepaper provides detailed insight into our platform, technology, vision, and unique value proposition. We aim to educate our community and potential stakeholders about our operations and plans, emphasising transparency, clear communication, and our commitment to innovation.

10.4 Token Staking and DAO Tokens (August 2023)

We plan to promote decentralised finance and governance within our ecosystem by introducing Token Staking and DAO Tokens. Token Staking enables users to earn rewards by pledging their tokens, thus securing our network. At the same time, DAO Tokens empower our community to participate in decision-making processes, fostering a truly decentralised platform.

10.5 Asset Marketplace (September 2023)

Launching our Asset Marketplace will enable the buying, selling, and trading of digital assets on our platform. We anticipate the marketplace becoming a thriving hub of activity, integrating advanced security measures and efficient transaction mechanisms to ensure a seamless experience.

10.6 Release of First Gaming API Library for Developers (October 2023)

We aim to foster a vibrant ecosystem that brings together gamers and creators by releasing our first Gaming API Library for developers. We are establishing a platform supporting innovation and creativity by providing the tools and resources necessary to create immersive and engaging gaming experiences.

10.7 Neuralink Listed on Decentralised Exchanges (October 2023)

Listing Neuralink on popular decentralised exchanges such as MueslySwap and Wingriders will increase the accessibility, liquidity, and distribution of our tokens. This listing signifies a major step towards our goal of making Neuralink widely accessible within the digital economy.

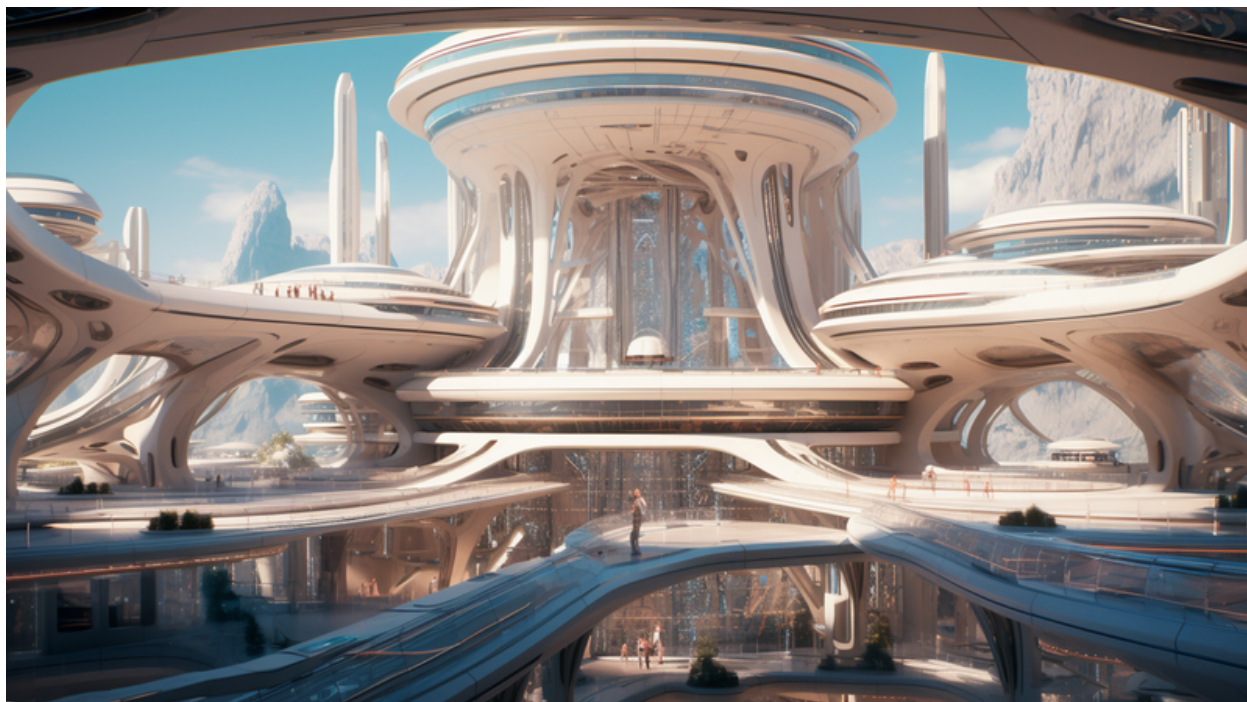
10.8 Neuralink Listed on Centralised Exchanges (January 2024)

The forthcoming listing of Neuralink on centralised exchanges, specifically on Bybit and OKX, marks another significant move towards enhancing the accessibility and liquidity of our token. This listing will increase our visibility in the broader cryptocurrency market.

10.9 Rolling out Initial Game Integrations (April 2024)

Our plan to roll out initial game integrations signifies our commitment to providing a rewarding and engaging gaming experience. These integrations will blend the innovative features of our platform with popular games, promising exciting opportunities for gamers and developers alike.

11. Types of NFTs on the Neuralink Network



At Neuralink Network, we embrace the innovative and diverse world of Non-Fungible Tokens (NFTs). NFTs bring a unique element to the blockchain, offering various applications from ownership proof to rewards systems. Our platform supports a variety of NFTs, each with its specific use cases. In this section, we delve into the different types of NFTs that exist within our network.

11.1 Reward NFTs

Reward NFTs are crucial in incentivising and recognising our member's participation within the network. These NFTs are gifted to members and can grant a range of rewards.

For instance, a reward NFT might provide an additional 1% on every member's investment within the platform or augment the yield percentage on staked

tokens. They could also offer discounts, such as reduced fees or costs within our marketplace.

The key objective of these reward NFTs is to promote and reward active engagement and participation within the Neuralink Network.

11.2 Utility NFTs

Utility NFTs represent a unique use case on the Neuralink Network. The platform uses these NFTs to identify members with special abilities or roles within the network. These NFTs could be earned through contests or be used to distinguish admins, moderators, and other key positions.

Utility NFTs are bound to the wallet in which they are minted and cannot be deleted or moved to a different wallet. However, they can be removed by a member possessing a specific utility NFT, typically attributed to admins. This mechanism is integral to managing roles and responsibilities within our ecosystem.

The acquisition of these NFTs is a testament to a member's skill, dedication, or importance to the community, and they serve to foster a healthy and engaged community.

11.3 Regular NFTs

Regular NFTs are most commonly associated with the term "NFT". These include but are not limited to digital artwork, collectables, game items, and more. They verify and symbolise ownership of a unique item or content in the digital world.

Regular NFTs on the Neuralink Network may be related to a game within our network, represent pieces of digital art, or any other form of the unique asset.

Members can openly trade these NFTs on our internal marketplace and external NFT marketplaces within the Cardano ecosystem. The ability to freely trade these tokens opens up opportunities for creators and collectors alike, underpinning the vibrant digital goods economy on the Neuralink Network.

In conclusion, each type of NFT within the Neuralink Network uniquely enriches our ecosystem, rewards engagement, marks special abilities and promotes a thriving digital marketplace.

12. Conclusion



12.1 Summary of the Project

Neuralink Network sets a new paradigm in the gaming industry as a comprehensive blockchain platform, offering a marketplace, a game publishing platform, and a DAO for community-led decision-making. Through our active participation as a sidechain in the Cardano network, we augment our platform and contribute to the robustness of Cardano's ecosystem.

12.2 How to Get Involved

There are various ways to engage with Neuralink Network. Whether you're a gamer, game developer, streamer, influencer, or someone interested in the project, we invite you to join us on our exciting journey.

12.3 References & Citations

1. Cardano Website. Available at: <https://cardano.org/>
2. Hydra Paper. Available at: <https://hydra.iohk.io/>
3. Neuralink Network Website. Available at: <https://neuralinknetwork.io/>