

Revolution: A New Platform of Pioneering Digital Art through Decentralized Consensus

Revo Team, 2024

Abstract

This white paper delineates the architectural framework and strategic deployment of Revolution, a pioneering blockchain platform optimized for the NFT market. Revolution leverages a unique consensus mechanism to authenticate and value digital art, catalyzing a significant shift in how digital assets are perceived, traded, and secured. Central to this innovation is the RTV token, an integral component of the platform's economy, which facilitates transactions, incentivizes participation, and maintains liquidity within the ecosystem. Through the integration of decentralized finance (DeFi) principles and advanced blockchain technology, Revolution offers a scalable and secure environment for artists and collectors. The platform not only supports the minting and trading of NFTs but also enhances the intrinsic value of digital art through community engagement and transparent value consensus. This document articulates the technical innovations, economic models, and growth strategies that position Revolution at the forefront of the digital art revolution, transforming the landscape of artistic expression and ownership in the digital age.

1 Introduction

Revolution NFT introduces a novel approach to addressing these challenges by integrating a fault-tolerant, replicated state machine with unique mechanisms that leverage community-driven consensus and economic incentives. Our platform does not merely record transactions but also establishes a dynamic environment where the value of digital assets is continuously assessed and realized through participatory engagement. At the core of Revolution's architecture is the implementation of a win-win mechanism that ensures all participants—creators, collectors, and traders—benefit from the ecosystem. This is achieved through innovative use of game theory in pricing models and decentralized finance

(DeFi) elements that enhance liquidity and make the marketplace more vibrant and equitable. Unlike traditional systems that rely on passive interaction, Revolution NFT cultivates a proactive community where each member contributes to and benefits from the platform's growth. It is envisioned that every participant in the Revolution network will not only rely on a transparent record of asset ownership and transactions but also engage in shaping the value of the assets themselves. This collective participation ensures a more accurate and fair valuation of NFTs, supported by a system that rewards contribution and ensures the sustainability of the ecosystem. By doing so, Revolution NFT sets a new standard for how digital art is traded, valued, and appreciated in a decentralized digital economy.

2 Outline

The remainder of this article is organized as follows. The development and history of the NFT industry are described in Section 3. Revolution NFT Platform's Unique Solution is described in Section 4. Overall Revolution NFT system design and Economic Model are described in Section 5. In depth description of the Development Roadmap is described in Section 6. Related legal Disclaimer is described in Section 7.

3 NFT Value Consensus

The ascendancy of Non-Fungible Tokens (NFTs) marks a profound shift in the art and digital assets landscape. Originally seen as mere collectibles, NFTs have burgeoned into a powerhouse driving the future of digital art, culture, and media. With \$2.5 billion in sales in the first half of 2021 alone, the NFT market has demonstrated a capacity for exponential growth and a robust appetite among collectors and investors. High-profile sales, such as Beeple's "Everydays: The First 5000 Days" and the \$90.5 million sales for CryptoPunk, underline the soaring valuation and mainstream appeal of digital assets.

3.1 Promising capital market

NFT has opened the door to a digital world beyond the physical limits, and this year has set off a "gold-sucking frenzy" in the art market, with enough madness to impress ordinary consumers. The NFT market is not limited to art and collections, but will also penetrate

areas such as music, retail, sports, and luxury goods. This leads us to acknowledge the market may be bigger than we thought, and the NFT hidden "rich" opportunities have led to a growing hype with people profiting from the NFT boom. From the development direction of NFT, it is possible to achieve the chain of all things, then the equivalent of the total amount of human economy directly transferred to the blockchain. According to public data, THEX (decentralized trading market) has shown an overall growth trend over the past year, with \$40.8 billion in transactions in August. NFT, as an important trading asset of DEX, traded only \$224 million, accounting for less than 0.006%, indicating that the overall market potential has not yet been released, concluding that NFT liquidity is a big problem.

3.2 Challenges

NFT's unique ownership "voucher" attribute is naturally suitable for use in the field of art with unique value and becomes a value carrier to transfer large amounts of funds. NFT's rapid development also exposes shortcomings, the core issue is that the valuation and liquidity of NFT assets have been questioned by the market. As well as the value consensus remains controversial. Because of NFT's unique nature and the absence of uniform pricing standards, it is difficult to give uniform value to unique assets. In addition, because of the public's aesthetic awareness and the differentiation of artistic appreciation, the art collection market is a niche market. making it difficult to form a value consensus at a larger scope. With the circulation problem caused by low consensus, there is no effective valuation mechanism. Secondly, NFT art is less liquid, and it's often hard to sell a NFT without a tradable history. For example, putting an NFT on OpenSea, without a fan base and publicity, it can take days for investors to buy a regular NFT artwork to sell again, while higher-priced NFT works can take weeks or more to sell. Finally, the current pricing mechanism of NFT art is that of an auction methodology, and consequently results in high pricing, from hundreds of thousands to tens of millions of dollars.

3.3 Unique features

Revolution tackles these issues head-on by integrating innovative mechanisms such as "Instant Pricing" for NFTs, game theory-based valuation models, and liquidity pools that enhance market fluidity. Each minted NFT is given a basic value and these tools not only help stabilize NFT prices but also ensure that every digital asset can be fairly traded and appreciated over time. Revolution NFT is not just facilitating transactions; Rather, it is based on a unique win-win mechanism that allows both parties involved in NFT voting or bidding to

obtain valuable benefits. We are creating a vibrant marketplace akin to an "eBay for NFTs," where the artists, collectors, and digital enthusiasts interact within a mutually beneficial ecosystem. This platform helps to mitigate the risks of a speculative bubble by focusing on the true value and utility of NFTs—beyond just the stories behind them. By focusing on objective value accumulation, our ecosystem helps to stabilize market perceptions and enhance transaction liquidity.

4 An Ecological Architecture for Digital Art

Revolution stands as the world's first NFT value discovery platform, distinctively crafted using a variety of game theory models to foster the creation, trading, and valuation of NFTs within a decentralized financial ecosystem. Built on the Ethereum blockchain, our platform aims to establish a consensus on NFT values and asset discovery, creating an open, inclusive, liquid, and secure environment for managing NFT values.

With the introduction of our platform token, RTV, which has been officially launched and is available on Uniswap, Revolution is pioneering solutions to previously unaddressed challenges in the NFT market, such as liquidity constraints and value inflation. The RTV token is a critical component in enhancing the liquidity of the platform, facilitating more dynamic and efficient trading conditions for participants. RTV can be exchanged for mainstream digital assets such as ETH, USDT, and more, broadening the accessibility and usability of the token.

Furthermore, users can pledge RTV and ETH pairs to provide liquidity, earning a steady revenue stream from Uniswap's trading pool. This functionality not only empowers token holders by providing additional utility but also stabilizes the platform's economic environment, allowing participants on both sides of the market to profit.

Our platform leverages an economic incentive mechanism to promote a positive ecological cycle of NFT value discovery. This mechanism supports a highly autonomous consensus community where global NFT enthusiasts can unite and collaborate. The integration of a DeFi economic model and strong empowerment of NFTs through our platform facilitates the creation of digital asset derivatives and innovative financial models, propelling the blockchain sector into the 3.0 era.

By implementing a game-theoretic price discovery mechanism, Revolution addresses the core issues of pricing and liquidity in the NFT market. This approach allows for increased holding through interactive game elements, ultimately leading to more rapid trading and recognition of NFT values. Looking ahead, Revolution plans to introduce Ethereum-based

DeFi lending agreements that will enable NFTs to act as collateral, thus creating a wealth of targeted NFT derivatives. These derivatives will provide practical utility for NFT owners and enable the precipitation and streaming of NFT values, further enhancing the platform's utility and appeal.

4.1 Strategic Community Engagement and Value Realization

Revolution is not only about enhancing the marketplace functionalities but also about enriching the interactive engagement within the ecosystem. Through this vibrant environment, each creator becomes an integral part of the NFT ecosystem, engaging actively to elevate the value and reach of their art. This engagement is driven by a community-based consensus on value, ensuring that each piece of art is not only seen but also appreciated and valorized across a wider audience. Our platform's architecture leverages cutting-edge blockchain technology to facilitate a seamless and secure interaction among artists, collectors, and art enthusiasts, making art more accessible while ensuring that creators can thrive economically. By embedding these principles into our core, Revolution is set to transform the digital art landscape, making it more dynamic, inclusive, and expansive.

4.2 NFT Issuance

The Revolution platform empowers users to mint a diverse array of NFTs, encompassing digital artworks, music, videos, game skins, and other intellectual properties. It supports a wide range of media formats, including audio and video, facilitating a robust environment for creators to bring their digital creations to life. This functionality is underpinned by an advanced framework through Ethereum chain that ensures all digital assets are minted with secure, non-tamperable metadata, including asset names, descriptions, and content details, thereby maintaining the integrity and authenticity of each NFT.

4.3 NFT Display

Revolution NFT platform provides a sophisticated display system for NFTs, allowing artists and collectors to showcase their digital assets comprehensively. This system includes features for displaying unique logos, author introductions, detailed product information, transaction histories, and popularity metrics. Each NFT is anchored by smart contracts that authenticate the creator's identity and establish the provenance and ownership of the digital assets.

4.4 NFT Trading

Revolution offers a dynamic trading environment with multiple transaction modalities tailored to the preferences and needs of our diverse user base:

Direct Sales: Users can list NFTs for sale at specified prices, facilitating straightforward buy and sell transactions. This model provides clear pricing structures and simplifies the process of acquiring or divesting digital assets.

British Auctions: This traditional art auction model is adapted for the digital space, where users can engage in ascending price auctions. Sellers set a starting price and auction duration, with the final sale going to the highest bidder, thereby capturing the true market value of unique digital assets.

Blind Box Sales: Revolution introduces an element of surprise and gamification through blind box sales. Curators can assemble collections of NFTs into themed blind boxes. Buyers purchase and open these boxes without knowing the specific contents beforehand, which can vary in rarity and value. Creators set the terms of engagement, such as the number of boxes, pricing strategies, purchase limits, and opening probabilities, making each blind box opening an exciting event for the community.

4.5 NFT Pledge Pricing

In Revolution platform, the casting of NFT products can pledge the mainstream digital currency ETH, the creator needs to sell NFT and be transferred together with the pledged ETH inside the NFT works. In this way, the creators cast NFT on the platform by pledging the mainstream digital currency for value anchoring, each asset is an ERC721 standard NFT. This mechanism contrasts with the typical models seen on platforms like OpenSea, Rarible, or Foundation, where NFT value can be highly speculative and lacks a tangible economic anchor.

For example, NFT assets are mortgaged at 1 ETH and their intrinsic value is 1 ETH. Add to this each user's contribution to the game and the value increases over time. Through the underlying pledge of asset empowerment, NFT commodities are no longer just the simplest carrier, relying on imagination and market sentiment to value, but have objective economic value support. Revolution offers a stabilizing influence on prices, providing a foundational value that reassures investors and reduces market volatility.

4.6 Game of Thrones

Unlike traditional NFT platforms that primarily focus on simple buy-and-sell dynamics, Revolution integrates game mechanics to enhance the NFT value discovery process. At the same time, the decentralized auction method is retained, as a value discovery to the auxiliary form, the joint role, in the realization of the NFT value of the discovery, to provide liquidity. Relying on cooperative gaming and non-cooperative game models, participants play games through the game mode. As more and more users enter, more and more value precipitates into NFT, to achieve NFT asset value growth, which will have a very imaginative value space. This system encourages active participation rather than passive speculation, which is common on platforms like Nifty Gateway and Zora. Through interactive gameplay and strategic engagement, users can influence the valuation of NFTs, fostering a vibrant community where the valuation process is transparent and directly impacted by community activities.

4.7 DeFi + NFT

The rise of DeFi in 2020 has pushed NFT back to the forefront. The collision between Defi and NFT has more possibilities, and we're thinking about quickly cutting into the Defi-NFT adoption and thinking about the NFT's more valuable future. The reason to NFT's illiquidity is the lack of functional value, which is "What can I do with it?" While many platforms, including known entities like Mintable, focus primarily on the art and collectibility aspect of NFTs, they often overlook the integration of NFTs with decentralized finance (DeFi) solutions. Revolution's platform harmonizes NFT trading with DeFi functionalities, enabling NFTs to serve as collateral for loans or other financial instruments. This integration not only bolsters the liquidity of NFTs but also enhances their utility, transforming them from purely aesthetic items into functional financial assets. In our platform, your NFT assets could be used in different scenarios; you could make money from NFT over the long term; and then the practical value of NFT assets would naturally be higher." With the Help Economic Model, we will give NFT assets the utility of "financial attributes". As NFT appreciates, so does the platform token RTV, and NFT will gradually change from a simple art collection voucher to an "interest-bearing" financial instrument that can be mortgaged to support liquidity.

4.8 LP Liquidity Mining

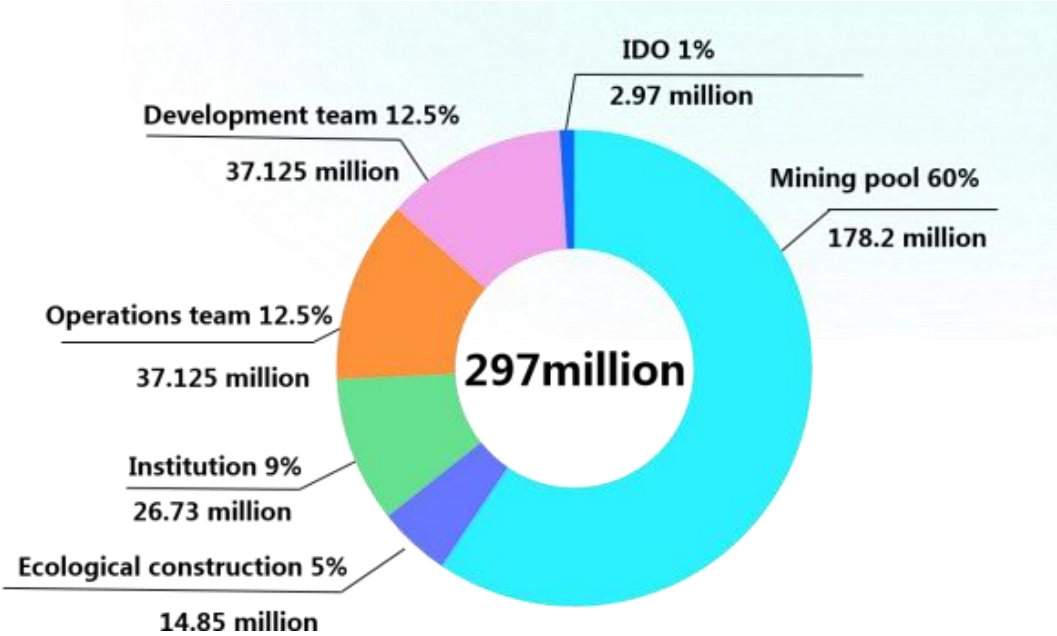
Revolution distinguishes itself with a robust LP liquidity mining program that actively rewards community participation, a feature less emphasized on platforms like SuperRare and Art Blocks.

1. All users can be rewarded with ETH or RTV for participating in decentralized games. Through the incentive mechanism, an objective to vote can increase NFT and RTV token's values.
2. NFT owners receive RTV rewards through each round of games. The higher the value of NFT, the more RTVs you get.
3. Users are required to pay a certain RTV when destroying an NFT. This approach democratically distributes economic benefits across all user levels, contrasting with other platforms where benefits might disproportionately favor the platform itself or a select group of early adopters. In short, the more tokens the creator's NFT work pledges, the more rewards, the more active the fans are, and the higher the NFT's value, the more Tokens are released per round of the game.

5 RTV Platform Pass Economic Model

RTV is the only proof of Revolution's release, and RTV is a key hub between creators and fans, as well as proof of the value of encrypted digital rights that can circulate in the Revolution ecosystem . Our goal is to create a complete ecology, RTV will be the whole ecological management token in the future.

5.1 Tokenomics



RTV has a total circulation of 297 million, which is publicly issued without pre-mining and pre-selling.

Mining pool: 60%, totaling 178.2 million RTV

Distribute game rewards and NFT holder mining.

Institutions: 9%, totaling 26.73 million RTV

Only open quota to professional blockchain venture capital institutions.

Ecological construction: 5%, totaling 14.85 million RTV

Promote the stable ecological development of NFT creation, transaction and community construction in the platform.

Development team: 12.5%, totaling 37.125 million RTV

Used for original development team rewards and maintenance of open-source developer community.

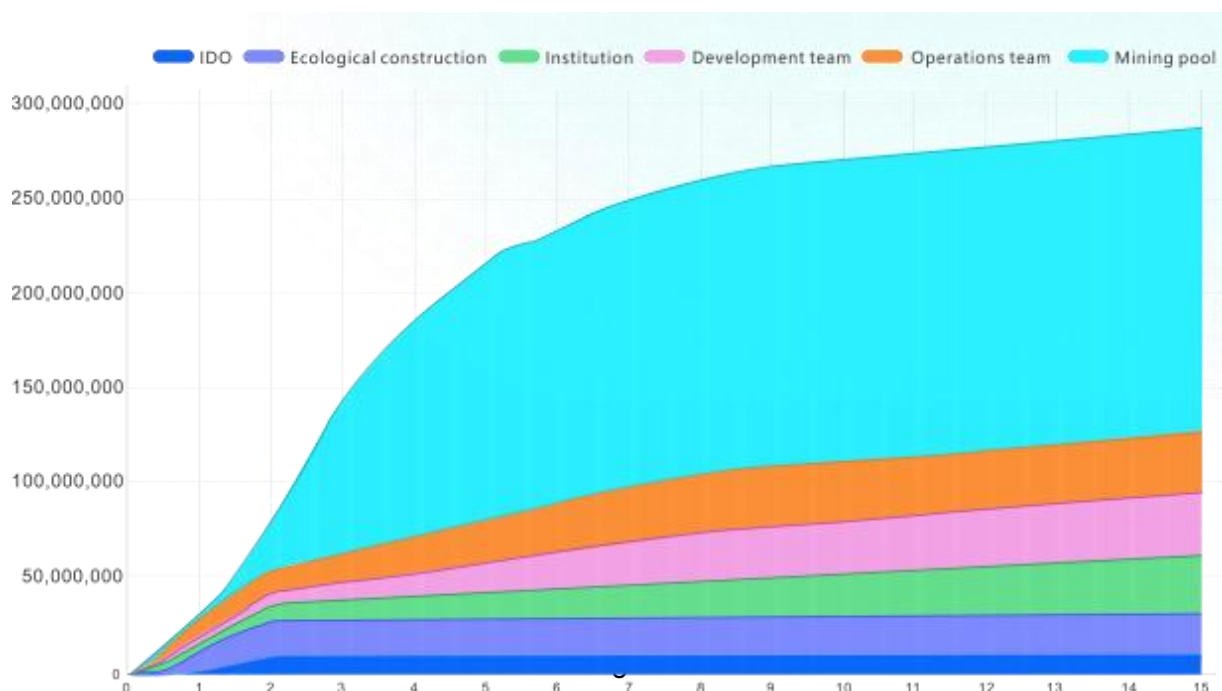
Operations team: 12.5%, totaling 37.125 million RTV

Used for internal operation center rewards and development of global node operation center.

IDO: 1%, totaling 2.97 million RTV

Public offering on major exchanges and listing on exchanges after public offering.

5.2 Release Rules



The mining pool part is linearly released by participating in the game and output by mining after the main network goes online.

The institution part has a 700-day release cycle, which is unlocked every 70 days in 10 batches.

The Ecological construction part has a 560-day release cycle, which is unlocked every 70 days in 8 batches.

The Operations team part has a 560-day release cycle, which is unlocked every 70 days in 8 batches.

The Development team part has a 560-day release cycle, which is unlocked every 70 days in 8 batches.

The IDO part is not locked, which is directly issued after the main network goes online.

5.3 Incentive Mechanism Model

When NFT are minted, the ETH spent on minting the NFT is bound to the NFT as the value of the NFT. Through each round of value discovery game, the token is released linearly. The number of tokens released in each round is determined by the following formula.

The amount of token released in each round depends on $A = \sigma = 1 (f(t) + g(t))$

Notes:

$$f(t) = \sigma_N \theta(t) VE$$

$f(t)$ = The set of token rewards obtained by all game participants at time t

$\theta(t)$ = token coefficient at time t

VE = part of the ETH value lost by the player in the game

$$g(t) = \theta(t) V_N(t) \beta$$

$g(t)$ = token reward obtained by the NFT owner at time t

$\theta(t)$ = token coefficient at time t

$V_N(t)$ = value of the NFT at time t

β = linear coefficient

The incentive model balances the rewards of early users with the need for liquidity release. With the release of liquidity and the growth of the total NFT value of the platform, the growth rate of $\Sigma_N A$ must slow down over time, and the overall trend is a function of $\log(ax)(a>1)$.

6 Development Roadmap

November 2021: Revolution 1.0 is scheduled to launch in Q4 2021, introducing the foundational features of our platform.

March 2022: The second phase of the Revolution Test Network will officially be launched, including the addition of a variety of auction forms to enhance trading dynamics.

June 2022: Revolution 2.0 Main Network is scheduled to launch in Q2 2022, marking a significant upgrade in our platform's capabilities and user interface.

September 2022: We will promote the NFTs of top art with world-renowned institutions, extending the development of the Business Community and Industry of Revolution. This initiative aims to integrate high-value art assets into our platform.

September 2022-2023: Expansion into Europe, America, Australia, and other developed countries' mainstream markets of contemporary art, creating a new driving force for user engagement and platform growth.

March 2024: The platform's ERC-20 ecosystem-based Ethereum token, RTV, was officially launched. Within just two weeks of its launch, it attracted more than 20 ETH and 14,000 RTV in Uniswap liquidity from users. The cumulative volume of token trades and transfers exceeded 1,000, and the RTV token's all-time high market price reached \$11.87, continuing to show robust growth.

May 2024: Revolution's new community initiative will be launched, where RTV tokens can be airdropped through community building activities and the completion of incentivized tasks. This will encourage greater community participation and boost platform engagement.

June 2024: RTV tokens will be synchronized on CoinmarketCap and the platform, enabling the display of RTV token prices directly in mainstream digital wallets. This step will enhance the visibility of RTV and integrate it more closely with the global cryptocurrency market, making it easier for users to track and trade.

7 Legal Disclaimer

The regulatory environment for blockchain technologies and digital currencies is still evolving and can vary significantly by jurisdiction. Potential regulatory changes or actions may impact the operation of the Revolution platform and the use of RTV tokens. Revolution is committed to compliance but cannot predict how changes in laws and regulations may affect its business. Users should be aware that they bear all risks associated with regulatory changes affecting their ability to use or hold RTV tokens.

Revolution, its staff, and its affiliates shall not be liable for any losses incurred directly or indirectly by users of the RTV token or the Revolution platform. This includes, but is not limited to, losses of income, profits, or data arising from the use or inability to use the services provided by Revolution. Furthermore, Revolution does not assume liability for any infringement, special, indirect, or consequential damages arising from the use of the white paper or any associated services.

The security of your RTV tokens rests with your ability to safeguard your private keys or any other access credentials. Revolution is not responsible for losses resulting from unauthorized access to your tokens, whether it be through hacking, loss of credentials, or other means. Users are strongly encouraged to implement robust security measures and maintain backups of all private access information.

The value of RTV tokens, like all cryptocurrencies, can be highly volatile and unpredictable. This volatility can result from market dynamics, regulatory changes, or general economic conditions. Revolution does not guarantee any specific outcomes from purchasing RTV tokens and is not responsible for any financial losses due to fluctuations in market prices.

Revolution clearly communicates the possible investment risks to investors, investors should understand the risks, do your own research and due diligence, practicing good risk management.