

WHITE PAPER

RIWA

THE FUTURE OF ART

Release

V3.1

Table of Contents

01 Abstract	Pg 3
02 Riwa Tech	Pg 4
03 Market research	Pg 5
04 Technology	Pg 7
05 Why we do this	Pg 12
06 How Riwa Tech works	Pg 14
07 The future	Pg 20
08 Team	Pg 21
09 Coin distribution	Pg 22
10 Business model	Pg 24
11 Timeline	Pg 26



Abstract

Art and antiques have always been an integral part of the global economy, and this remains true today. With the rise of digital platforms and technologies, transaction methods have been revolutionized, but challenges such as provenance, authentication, protection and preservation of cultural heritage persist. This white paper proposes integrating blockchain technology to improve the industry's landscape and protect its unique value. Blockchain can provide secure, transparent, and tamper-proof records for art and antiques, addressing numerous issues. By combining traditional values and innovative technology, we aim to create new opportunities for transactions, exhibitions and collections promoting healthier industry growth.

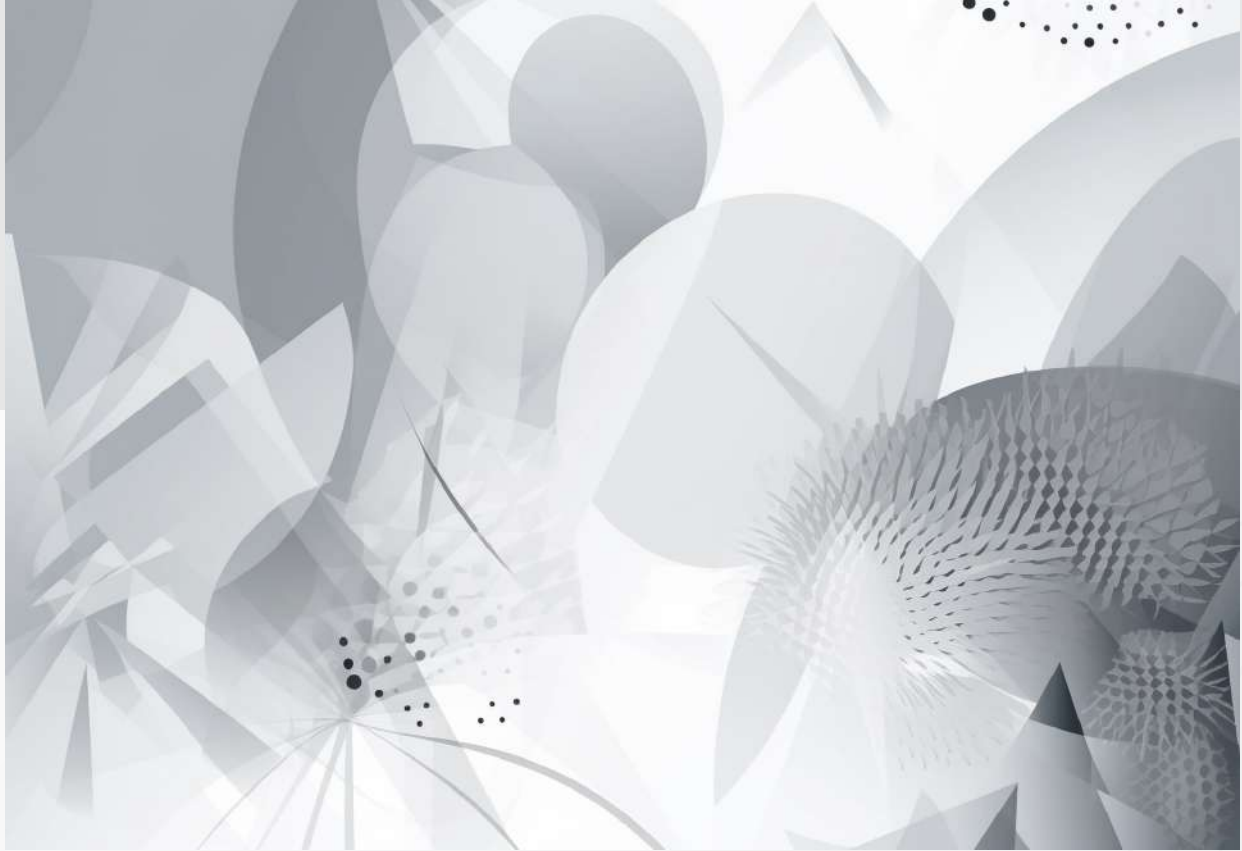
Riwa Tech

At Riwa Tech, we acknowledge the importance of transitioning the traditional art and antiques industry into the digital era. We aim to generate new opportunities by integrating physical art and antiques with blockchain technology.

Our platform uses Web 3.0 technology to unite artists and collectors, providing traceability, anti-counterfeiting, authentication, misuse prevention, security management and finance through a combination of blockchain and the Internet of Things (IoT). This approach makes the art market more comprehensive, secure, reliable and efficient.

Riwa Tech is committed to delivering a more secure and efficient solution for the art market, facilitating comprehensive art services while connecting physical and virtual. Our services not only innovate the industry but also contribute to the preservation of our cultural heritage.

By offering real-time tracking, authenticity verification, secure transactions, and convenient access to financial services, Riwa Tech advances art and antiques into the digital age, unlocking new possibilities for collectors, artists and the wider art community.



Market research

The online antiques and collectibles sales industry

According to IBISWorld, the US online antiques and collectibles sales industry is projected to reach a market size of \$2.8 billion in 2023, with a growth rate of 5.3%.

Sales have grown at an average annual rate of 13.1% from 2018 to 2023, thanks to the increasing use of e-commerce platforms and digital technologies, which opened up new buying and selling opportunities for collectors, dealers and individuals.

The main benefits of selling antiques and collectibles online are convenience and accessibility. Online platforms enable people to access a large variety of items from the comfort of their homes and expand their reach to a wider range of potential buyers and sellers.

Massive physical art market

Based on the annual Art Market report by Art Basel and UBS, the global art market rebounded in 2021, with sales of art and antiques reaching \$65.1 billion. The United States held the top spot with 43% of global sales, Greater China accounted for 20%, and the UK held 17%. France experienced a significant increase in sales, up 50% year-on-year, reaching \$4.7 billion.

A survey of 2,339 high-net-worth collectors revealed that spending on fine art, decorative art and antiques rose from \$72,000 in 2019 to \$126,000 in 2020. High-net-worth collectors who spent more than \$1 million on art and antiques increased from 20% in 2020 to over a third in 2021. The majority of this spending was concentrated in mainland China (44%), Germany (38%), France and the United States (both 36%). The art market remains an important part of the global economy and is likely to continue growing, driven by increasing wealth, global interest in art and advancements in technology and e-commerce.

Art and Web 3.0 combination trends

Art and Web 3.0 tech like NFTs are a growing trend. Grand View Research predicts the NFT market to reach \$211.72 billion by 2030, with a 34.2% CAGR from 2023 to 2030. 88% of high-net-worth collectors show interest in NFT based art, highlighting the potential of combining art and Web 3.0 technologies in the market.

Technology

Riwa assigns a distinct electronic ID to every piece of art or antique and incorporates IoT technology to facilitate real-time tracking and comprehensive security management of these items, guaranteeing the dependability of identity verification and protection. In addition, Riwa uses advanced 3D scanning technology to capture the physical characteristics of the artwork and implement smart contracts on the blockchain platform. This approach ensures seamless tracking and confirmation of asset ownership, ultimately augmenting the security and transaction reliability of artworks within the market.

1. Riwa dual anti-counterfeiting

1.1 Electronic Tag (E-Tag) management system

Riwa's E-Tag technology management system is efficient, accurate and reliable. The system can automatically read real-time artwork information and dynamically track and detect artwork locations through an electronic map, improving the timeliness and accuracy of issue detection. Each Riwa E-Tag has a unique identity code assigned to the artwork or antique it represents, and the tags are physically non-replicable and indestructible. With large storage capacity, long service life, and adaptability to indoor and outdoor environments, Riwa's E-Tag also allows contactless information collection, pollution resistance, and high reliability.

Users can access the Riwa system by sensing an item's E-Tag with a smartphone, obtaining detailed features, inspection count, origin, ownership change records, historical transaction prices, and more. This unchangeable record prevents forgeries and replicas.

1.2 Riwa NFTs

Riwa's NFTs serve as the second layer of authentication for artwork and antiques. Utilizing blockchain's immutability and distributed ledger features, each ownership change leaves an unalterable record. Every change is recorded in the corresponding item in the E-Tag management system. Only the owner can access the independent code of each tag, ownership change records, and the item's physical feature data. This NFT, paired with physical artwork or antique transactions, accomplishes the dual anti-counterfeiting goal.

Riwa NFTs also help owners protect their digital rights, preventing unauthorized use of images or likenesses and granting access to revenue and other value-added digital financial services.

1.3 Riwa smart warehouse

Riwa provides smart warehousing services for secure storage and intelligent custody of artwork and antiques. By integrating E-Tag with IoT technology, buyers can globally view and monitor their items in real-time. Riwa's intelligent warehouse system offers high security and confidentiality, ensuring a reliable storage environment for users.

Additionally, Riwa provides remote real-time monitoring services for hosted artwork to mitigate space, expertise and transport damage concerns for collectors. All hosted artwork and antique owners can access the Riwa system to obtain detailed information and storage conditions and transfer or retrieve items per their instructions.

1.4 Riwa 3D NFTs

Riwa is a tech-driven company that leverages the power of 3D scanning technology to revolutionize the way we perceive and authenticate artwork and antiques. By employing cutting-edge 3D scanning techniques, Riwa is able to capture the intricate details of each piece of artwork and generate a 3D NFT that serves as a unique digital identifier for anti-counterfeiting verification purposes. However, that's not all - to ensure that each item has its own distinct physical features, Riwa has combined the 3D NFTs with E-Tag technology, making the authentication process more reliable and robust. Moreover, Riwa is not limiting its innovation to its proprietary system alone.

Riwa is planning to collaborate with 3D technology providers to create a 3D app that will allow users to scan and upload 3D images of their artwork and antiques, which will, in turn, generate 3D NFTs for display and trade.

Riwa disrupts traditional art authentication with advanced tech like 3D scanning, NFTs, and E-Tag, providing secure and transparent digital assets with unique ID and anti-counterfeiting features. Users get a realistic representation of artwork and antiques through an intuitive 3D app.

2. Riwa digital financial services

2.1 Decentralized Finance (DeFi)

DeFi refers to a new financial system based on blockchain technology that provides financial services and transactions without banks or other traditional financial intermediaries. All transactions are recorded in a public ledger, increasing transparency and accountability. The ability to create innovative financial tools and services that are unattainable in traditional finance is another key feature of DeFi. This allows people to more easily and securely collateralize, lend, and invest their digital assets to meet various needs.

Riwa digitizes hosted artwork or antiques and issues tokens on the blockchain. Digital certificates are stored within each token, representing shares of the artwork or antique.

With the immutability and distributed ledger features of blockchain, Riwa F-NFTs enable the issuance of financial derivatives like fractional auctions and time-based dividends, better meeting investor demands. Funds are repaid with interest until the principal is cleared. If repayment is impossible upon maturity, Riwa auctions the artwork to repay the principal and interest to fund providers.

2.2 Staking system

Riwa-issued F-NFTs are backed by physical artwork and antiques and are protected by Riwa's double anti-counterfeiting system. Artwork and antique owners can refinance their assets by issuing F-NFTs. Users must authenticate using RIWA's 3D detection technology for physical feature inspection and provide relevant documentation for the artwork or antique. Additionally, owners must store their items in Riwa's smart vaults for safekeeping. This ensures credibility for F-NFT investors on the platform.

Riwa leverages DeFi's unique features to provide collectors with a convenient platform for staking their valuable artwork and antiques. By employing innovative methods, Riwa addresses the problems of traditional artwork and antique investment while offering investors an alternative refinancing channel.

Combining blockchain and IoT technology, Riwa offers a more transparent, secure and convenient management method for the art industry, achieving artwork traceability, anti-counterfeiting, theft prevention and abuse prevention. Additionally, Riwa's diverse services not only benefit holders and investors of art or antiques but also offer commercial opportunities for artists and collectors.



Why we do this

Riwa offers the art industry a more transparent, secure and traceable way of tracking management by combining blockchain and IoT technologies.

Physical monetization: Riwa platform allows users to securely issue NFTs for art and antiques, combining the services of an E-Tag management system and a smart warehouse to monetize them through F-NFTs.

Unique value proposition: Riwa allows users to issue NFTs for art and antiques, increasing the value of these items and providing a new financial channel for holders of art and antiques.

Secure and transparent platform: Riwa's platform uses advanced IoT technologies such as E-Tag and smart warehouse to ensure the security and transparency of physical assets backed by NFTs, increasing the trust of investors and collectors.

High return potential: As an early investor in the Riwa ICO, the project will create a new market for physical art and antiques backed by the NFT with high return potential.

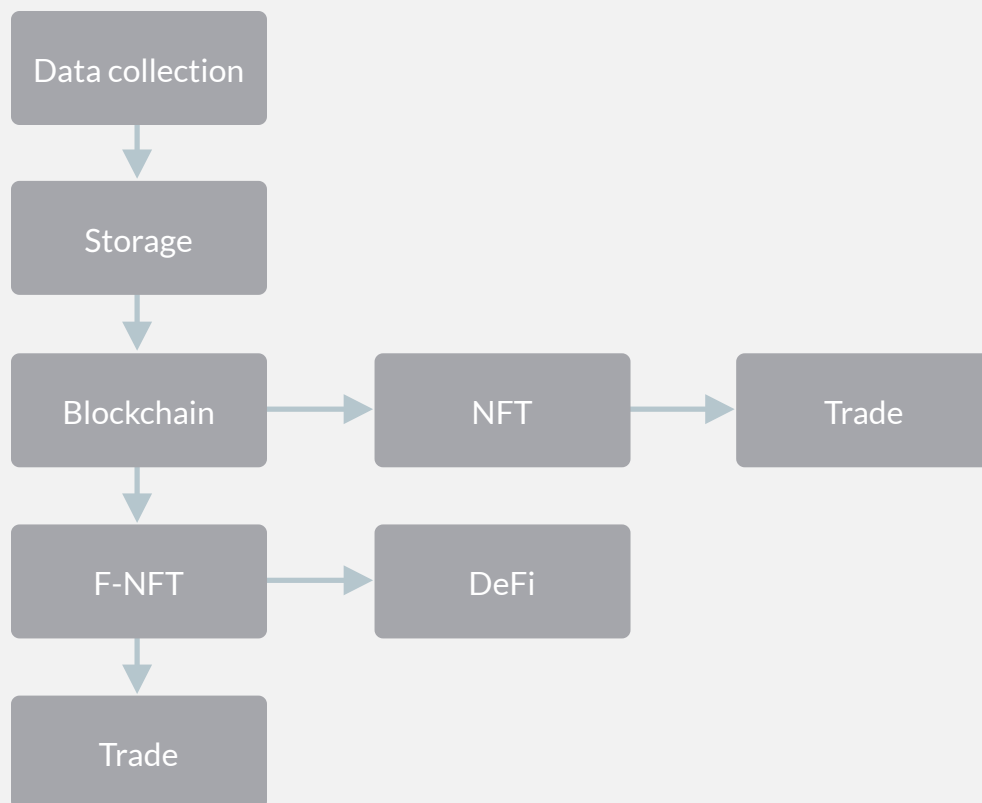
Meta-world for future development: Riwa's plans to develop a meta-space for art galleries and museums have the potential to create new opportunities for collectors, investors, and artists. Virtual services would allow artists and collectors to easily display their artwork and collections while completing transactions, rentals, and auctions through a secure and authenticated virtual identity.

Investing in Riwa's ICO can have a positive social and cultural impact by providing artists and collectors with a new channel to monetize their work and provide opportunities to support and invest in the arts. In addition, Riwa's financial services allow investors to invest in physical art and antiques, addressing the liquidity of art and creating innovative investment opportunities through blockchain technology.

Riwa's advanced IoT technology and unique value proposition make it an attractive investment opportunity for those interested in the intersection of art, technology, and finance. These services provide investors with a diversified source of income and help artists host their virtual exhibitions and museums. Riwa is breaking new ground in physical art, and we invite you to join us in making a difference in the future of art!

How Riwa Tech works

Riwa Tech is providing artwork source tracing, tracking, authentication, and solutions powered by blockchain and IoT technology. Collectible owners can keep their collectibles in Riwa's storage and get NFTs backed by the collectibles. It can help collectible owners to reduce the transaction cost of collectibles in terms of time and money. In the following paragraphs, we will be talking about the few components of Riwa Tech's solution, including storage, data collection, blockchain, NFT (non- fungible token), F-NFT (fragmented non-fungible token), trade and DeFi (decentralized finance).



Data collection

Riwa will implement a standard operating procedure (SOP) for collecting data for every arrival of collectibles. All of the collectibles will be verified by and evaluated by Riwa's professional. After that, the collectibles will be scanned by Riwa's specialized scanner. Two major types of data will be obtained in this SOP:

Basic details of the collectibles: such as name, type, ID number, and artist, will be stored on the blockchain and included in the NFTs.

Anti-counterfeit data: these data will be encrypted and stored off-chain and on-chain.

Riwa and the appraisers will provide signatures in both manual and digital forms. Digital signatures will be stored on-chain and off-chain.

Storage

Users can store their collectibles in Riwa's storage established in major cities worldwide and safely guarded by Riwa's professionals. A marginal fee of 1 - 3% of the collectible valuation will be collected from the owners of the collectible as storage and maintenance fees per annum. Owners of the collectible can choose to issue NFT or F-NFT backed by the collectible they have stored in Riwa's storage. The details of NFT and F-NFT will be discussed below.

Owners of the NFT or 100% of the F-NFTs will be considered the owner of the collectible, they can choose to withdraw the collectible from Riwa's storage anytime they want under the condition of burning the NFT or F-NFTs.

The collectible will be tracked with the help of IOT technology such as GPS and E-Tag. The owners can know the current location anytime they want.

Blockchain

Appreciation, trading and collecting of artworks are gradually becoming a part of people's life pursuits. In the development of the art market industry, collectibles lack clear records of transactions and evidence systems that can be verified, making it almost impossible to determine the source information of collectibles. Collectibles do not have an "ID" system, resulting in no records for artworks. This lack of traceability in the industry can easily lead to counterfeiters taking advantage of the situation, resulting in a proliferation of counterfeit artworks and affecting the development of the industry.

Owners who deposit collectibles to Riwa's ecosystem will get NFTs backed by the collectible. The NFT smart contract will inherit the basic and anti-counterfeit details. For every future transaction of the collectible, the smart contract will record the blockchain address of the new owner, and all of the transaction histories will also be recorded in the blockchain.

NFT

Riwa NFT can act as a guarantee of ownership over the collectibles. Other than helping the collectibles to have a clear and transparent transaction record, it can also reduce the transaction cost and time of the collectibles. Furthermore, it helps protection of owners' privacy even if they collect large amounts of collectibles or actively trade them.

F-NFT

F-NFT is NFT split into smaller fractions. Each of the fractions represents partial ownership of the NFT. All shares, fragments or fractions of NFT can be traded in the secondary markets. There are a few notable benefits of F-NFT, especially in Riwa's ecosystem:

Lower barrier of entry: The more expensive a collectible is, the harder it will be to sell. However, many of the physical collectibles have high barriers of entry, for example, antique and expensive artwork. Fragmentizing them helps democratize the collectible space as it provides a gateway for smaller investors to participate in the market.

Increase liquidity: F-NFT broadened the range of potential investors, providing more people with the chance to access the industry and invest in physical collectibles, artworks, and antiques.

Price discovery: Typically the more expensive a collectible or NFT is, the lower frequency it will be to trade. The lack of transactions makes it difficult to justify the market value of the physical collectible. Fractionating will attract more people to trade and with enough transaction data, it will be easier to find the actual market value of the collectible.

In short, the F-NFT solution helps physical collectibles in terms of lowering the barrier of entry, increasing liquidity and price discovery. Allowing physical collectible participation of DeFi. The details of DeFi will be discussed below.

Trade

With Riwa, users are able to trade or auction collectibles without the limitation of time and space with lower fees compared to the traditional way. Trading physical collectibles are now as easy as trading digital collectibles on Opensea. Other than that, users are also allowed to trade Riwa's NFT within or outside of the Riwa ecosystem.

DeFi

DeFi uses blockchain technology and smart contracts to provide financial services without intermediaries, including lending, savings and trading. It has the following advantages:

Accessibility: Anyone with a cryptocurrency wallet (such as Metamask) can access DeFi.

Transparency: All transactions are visible on the blockchain. Smart contracts are also public, and users can get everything they expect without any hidden content.
Decentralization: There is no central authority or intermediary.

Anonymity: The identity of the trader is kept confidential, and privacy is protected.

DeFi applications in Riwa

Loan collateralization: cryptocurrencies or fungible tokens are commonly used as loan collateral in DeFi. NFTs are less popular due to challenges in determining market prices and low trading frequency. Riwa's F-NFT solution solves these issues, making NFTs a viable collateral option in DeFi.

NFT staking: NFTs or F-NFTs can be staked in Riwa's staking pool to earn rewards.

The future

In the future, through Riwa, creators and collectors can not only disseminate the artistic value of their 3D NFTs but also display, rent and trade 3D NFTs in Riwa's virtual museums, galleries and shops.

Riwa will provide services to create private virtual museums and art galleries, using customized metaverse spaces to showcase their collections and facilitating transactions with AR and VR technology. Riwa's private museums can be made accessible to the public for free or for a fee. Users can book 3D NFTs online and meet with sellers in our metaverse space, represented by virtual avatars, for negotiations and transactions. This platform offers anonymity, security, efficiency and cost-effectiveness.

Individuals can build their own virtual private museums or art galleries at minimal costs while ensuring the maximum confidentiality and security of their assets. Additionally, income can be generated through exhibitions, rentals, auctions and other means.

Riwa aims to foster the development of the Riwa metaverse community by building a bridge between the physical and virtual worlds. As part of this effort, Riwa's virtual art community will evolve into a thriving virtual space for collectors and buyers to conduct transactions. Moreover, users will be able to leverage Riwa's advanced 3D technology to create 3D NFT collections and establish their own virtual spaces for exhibitions and other purposes.

Team

■ VIONA ZHANG

Founder & CEO

Experienced in commercializing artists and artworks, with a successful record in corporate and brand management.

PIERRE BRUNETOT

SVP

Ex-CEO and founder of Sante Nature with extensive experience in marketing and strategy.

YINJI DAI

Co-Founder & Sales Manager

Manager of the Asia Region and Co-founder. Over 17 years of experience in art and antiques industry management.

AASHIR IFTIKHAR

Chief Technical Officer at HashPotato

Over 3 years of experience in mobile application development. Expert in Full Stack development.

EDOUARD BRUNETOT

COO

CEO of Cobound helps businesses grow through marketing, sales, and customer service tools.

FABIEN CERCLET

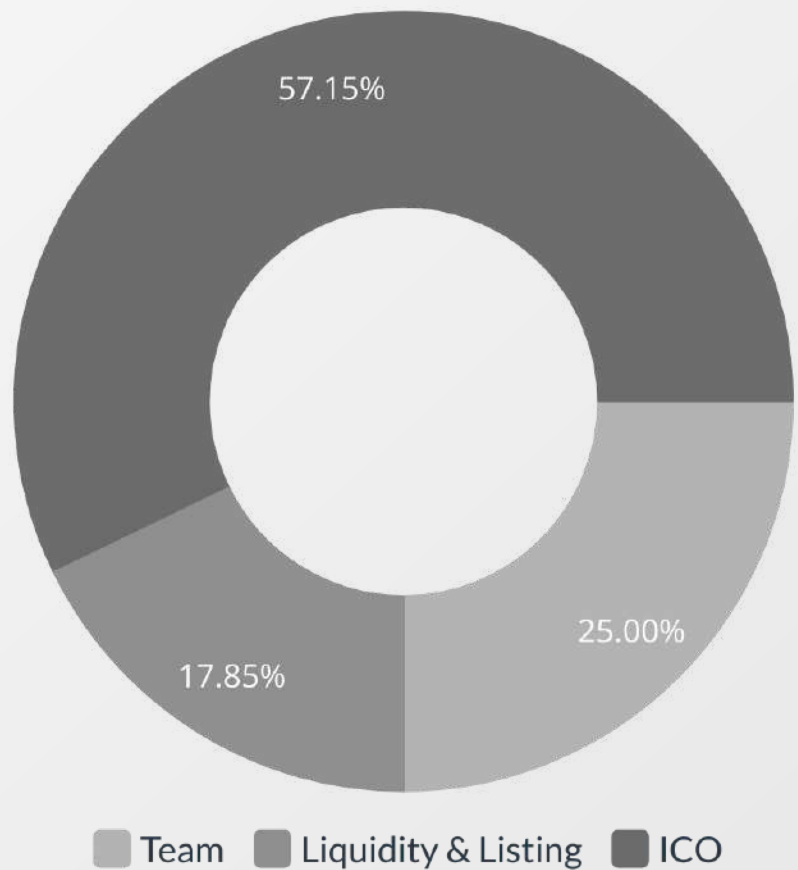
Sales manager

Over 7 years in blockchain tech & economics, established strong marketing foundation.

Coin distribution

■ Initial Coin Offering (ICO)

The team receives 25% of the tokens, liquidity and listing is 17.85% and 57.15% stays in the ICO.



One round

Total Circulation:	100,000,000
Finance:	57,150,000
Coin price:	\$0.38
Financing amount:	\$21,717,000

Purpose of Financing

- Build smart warehouse
- Build E-Tag management system
- Implement DeFi services
- Build Riwa metaverse community



■ TotalCirculation ■ Finance



Business model

IoT

Riwa offers services such as storage, international logistics and hardware services for which service and maintenance fees are charged.

NFT

Riwa's NFT art and antique transactions will be subject to a royalty fee.

DeFi

Riwa will offer F-NFT financial services, for which it will be charged a commission.

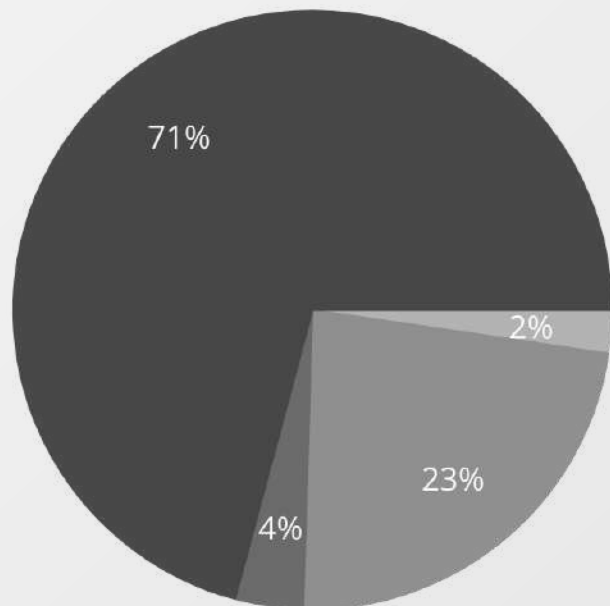
Metaverse

The metaverse service will charge users of virtual museums or art galleries a service fee to display their collections. A commission will be charged for transactions under the Riwa metaverse.

Revenues sources

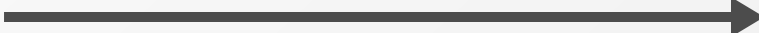
■ Five years of revenue after ICO

We anticipate generating \$34.0 million in revenue over the next five years from various sources. Our IoT services are expected to contribute approximately \$789,000, while the NFT market is forecast to generate \$7.85 million. The DeFi segment is expected to contribute approximately \$1.24 million to our overall revenue, with coin sales expected to generate \$24 million. In addition, we plan to generate \$140,000 from the metaverse.

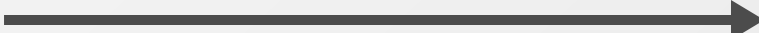


■ IOT ■ NFT Marketplace ■ DeFi ■ Coin sales

Timeline

2023 

- Completion of the ICO
- Implementation of IoT, electronic tagging and smart warehousing
- Development of DeFi solutions
- Collaboration with more than 100 art galleries, studios and museums
- Collaboration with over 1000 independent artists
- Collaboration with over 1000 private collectors
- Development of 3D NFT application
- Establishment of Network 3.0 Community

2024 

- Development of a metaverse platform
- Collaboration with over 500 art galleries, studios and museums
- Collaboration with over 5,000 independent artists
- Collaboration with over 5,000 private collectors

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