

Real Estate Digital Twins: Bringing authenticity to property transactions

A tokenization solution that leverages the Cardano blockchain to generate transparent, verifiable records.

Challenge

A need for verifiable property information

The real estate industry faces mounting challenges in ensuring **secure and transparent** property transactions. Traditional systems, reliant on paper documentation and centralized databases, are vulnerable to **fraud, data breaches**, and inefficiencies.

For instance, **paper records can be easily forged**, enabling fraudulent claims, while centralized databases offer a single, lucrative **target for hackers**, risking significant data breaches. Manual processes in these systems also cause slow and error-prone operations.

In 2021 alone, the **FBI reported over \$350 million in losses** due to real estate scams exploiting these vulnerabilities.² Moreover, a 2023 study by the Identity Theft Resource Center revealed that real estate companies are prime targets for data breaches, jeopardizing sensitive client information and financial assets.³

These risks underscore the need for innovative solutions that enhance security, transparency, and trust in real estate transactions.



Company

Tokenance
YurekAI

Industry

Real Estate

Size

As of December 2023, the total value of U.S. homes increased 5% to \$47.5 trillion.¹

The challenge

- Risk of data breaches
- Exposure to fraudulent transactions
- Limited property transparency
- \$350 million in losses

The solution

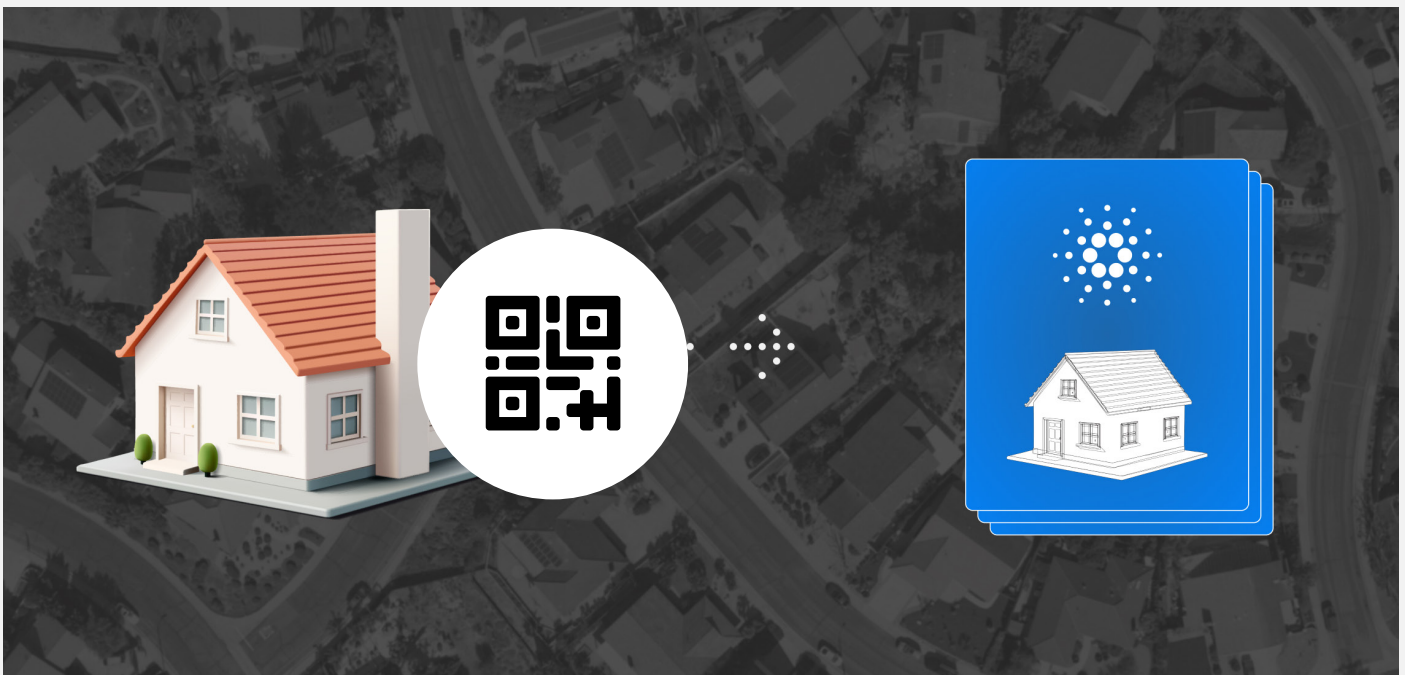
- Automate property management tasks
- Generate transparent and secure records
- Capture comprehensive information
- Verify property data authenticity

“The integration of Tokenance and YurekAI technologies creates a new and comprehensive, 360-degree, real estate offering to the public, enhancing the industry’s digital landscape. The partnership with the Cardano Foundation is a no-brainer, thanks to the Cardano blockchain’s ease of use, compelling value for money, ability to scale, and lowest energy consumption intensity, which resonates with the values of our organizations. We are ready to take this proposition global, as users and real estate agencies based anywhere can now trade securely and transparently.”

Fulvio Magni and Diego De Maio
CEOs at Tokenance and YurekAI

Solution

Creating a digital presence for real estate objects



Tokenance, a blockchain and AI software developer, partnered with YurekAI, an AI-powered real estate platform, to deliver the RE-TWIN platform to professionals worldwide. **RE-TWIN revolutionizes property transactions by enabling the creation of real estate digital twins**, comprehensive representations of physical properties.

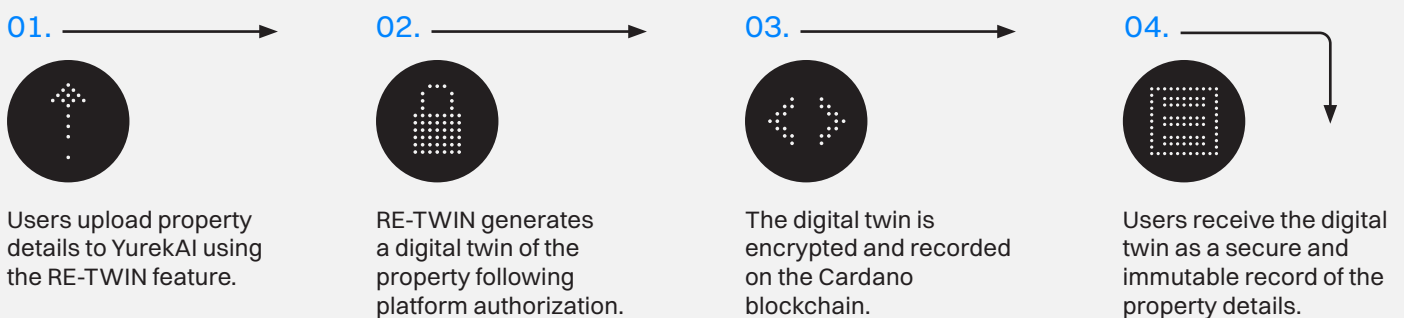
These digital twins, **secured on the Cardano blockchain, store crucial information** such as architectural designs, floor plans, location details, property features, images, and historical records—offering a transparent and reliable platform for developers, real estate agencies, and investors to manage property information.

RE-TWIN further simplifies the user experience by managing blockchain transaction fees and digital twin storage automatically. This integrated functionality eliminates the need for cryptocurrency or wallets in platform interactions.

By leveraging blockchain and AI, platforms like RE-TWIN offer a robust and reliable approach to managing property information, mitigating the risks inherent in traditional systems, and fostering a more secure environment for all stakeholders.

Solution Walkthrough

RETWIN



Results

Blockchain for auditable property records



Global market access

Through YurekAI, RE-TWIN is accessible to over 40,000 real estate agencies and 500 property developers across the U.S. and Europe.



Reduced costs

Lowering property management costs by automating tasks and minimizing paperwork.



Enhanced data security

Creating tamper-proof digital twins of property information using blockchain.



Improved client relationships

Strengthening client trust through secure and verifiable property data.



Increased transparency

Fostering trust with immutable, verifiable transaction records.



CARDANO

Advantages



Scalable network

Future-proof infrastructure supports platform growth without sacrificing performance



Secure data

Robust architecture protects sensitive data, minimizing the risk of breaches or fraud



Sustainable operations

Energy efficient network consensus aligns with sustainability initiatives

Sources

¹ Redfin. (2024). Redfin Reports the U.S. Housing Market Gained \$2 Trillion in 2023, Rebounding to Near-Record Value.

² Internet Crime Complaint Center (IC3). (2021). 2021 Internet Crime Report. Federal Bureau of Investigation.

³ Identity Theft Resource Center. (2024). 2023 Annual Data Breach Report Reveals Record Number of Compromises, 72 Percent Increase Over Previous High.



Cardano Foundation

The Cardano Foundation is an independent, Swiss-based not-for-profit advancing Cardano as a public digital infrastructure across a wide range of industries.

Contact us



cardanofoundation.org