

Cardano Solutions to Property Industry Problems – 1100070 – Closeout Report – Bernard Sibanda

A: Name of project: Cardano Solutions to Property Industry Problems
B: Project URL on IdeaScale/Fund: <https://cardano.ideascale.com/c/cardano/idea/112087>
C: Your Project Number : 1100070
D: Name of project manager : Bernard Sibanda
E: Date project started : March 2024
F: Date project completed : December 2024

G: List of challenge KPIs and how the project addressed them

- KPIs were fund 10 reporting and performance measurement standards. This project does not have in its application have listing of KPIs.

H: Technical Implementation Challenges:

1. **User Requirement Specifications – Available on GitHub.**
<https://github.com/wimsio/cardanopropertysolutions/blob/main/User%20Requirement%20Specifications%20Document.md>
2. **dApp Front-End Design – Stored on GitHub.**
<https://github.com/wimsio/cardanopropertysolutions/blob/main/dApp%20Front%20End%20design%2028-04-2024.pdf>
3. **dApp Back-End Design – Stored on GitHub.**
<https://github.com/wimsio/cardanopropertysolutions/blob/main/dApp%20Back%20End%20design%2028-04-2024.pdf>
4. **Front-End Hosting – Hosted on Cardano Property Solutions.**
<https://cardanopropertysolutions.co/>
5. **Back-End Hosting – Hosted on Cardano Property Solutions.**
<https://cardanopropertysolutions.co/>
6. **Smart Contract Design Document – Available on GitHub.**
<https://github.com/wimsio/cardanopropertysolutions/tree/main/src-29-12-2024>
7. **Smart Contract Source Code – Stored on GitHub.**
<https://github.com/wimsio/cardanopropertysolutions/tree/main/src-29-12-2024>
8. **User Help Manual – Available on Project Website.**
<https://cardanopropertysolutions.co/help/>
9. **Prototype or Demo Video – Available on YouTube.**
<https://www.youtube.com/watch?v=vvZ-j3oYiGA>

I: Key achievements

1. **Blockchain-Driven Secure Sales Transactions**
 - Will enabled secure, transparent property deals, reducing fraud and costs while increasing trust.
 - Will increase collaboration with real estate and legal professionals to prevent fraud.
2. **Real Estate Tokenization**
 - Used smart contracts to enable fractional ownership, making property investment more accessible.
 - Attracted a diverse investor base, from individuals to institutions.
3. **Open Opportunities for Smart Contract-Driven Property Driven Investments**
 - The success of this MVP is an advantage to property industry in that automated property sales are possible. Businesses and individuals are now able to conduct decentralized investments using ADA.
 - This opens opportunities for Cardano to partnered with regulators and institutional investors to ensure property compliance and this will lead to successful projects.

Cardano Solutions to Property Industry Problems – 1100070 – Closeout Report – Bernard Sibanda

J: Cardano Property Industry Solutions: Key Takeaways

1. **Enhanced Trust & Transparency** – Blockchain ensures immutable records for transactions, reducing fraud and disputes while building trust among stakeholders.
2. **Tokenization Lowers Barriers** – Fractional ownership enables small investors to access real estate markets, promoting financial inclusion.
3. **Smart Contracts Reduce Costs** – Automation streamlines transactions, eliminates intermediaries, and lowers administrative overhead.
4. **Regulatory Collaboration is Crucial** – Compliance with legal frameworks is essential for blockchain adoption in real estate.
5. **User Experience & Education** – Intuitive interfaces and awareness efforts are key for wider adoption among property stakeholders.
6. **Scalability is Essential** – Cardano's high throughput ensures efficiency as real estate transactions and data demands grow.
7. **Increased Market Liquidity** – Tokenization allows fractional trading of properties, making real estate a more liquid investment.

K: Property Due Diligence and Smart Contracts for Legal Compliance

Achievement:

Developed an automated property due diligence solution using Cardano smart contracts to ensure legal and regulatory compliance before transactions.

Key Learnings:

Cardano's blockchain enhances transparency, efficiency, and accessibility in real estate. Regulatory collaboration, education, and compliance are key to long-term success. Smart contracts, tokenization, and decentralization are driving transformation, with further innovation ahead.

L: Next Steps for Cardano Property Solutions

1. Enhance User Experience & Education

- a) **Goal:** Simplify UI/UX and educate stakeholders for wider adoption.
- b) **Action:** Develop tutorials, manuals, and online courses in collaboration with real estate institutions.

2. Integrate Additional Property Services

- a) **Goal:** Create a comprehensive real estate ecosystem with services like insurance, mortgages, and tax reporting.
- b) **Action:** Develop APIs and smart contracts for seamless integration with third-party providers.

3. Expand Tokenization & Liquidity Features

- a) **Goal:** Enable broader participation in real estate investments.
- b) **Action:** Tokenize more asset types and build a secondary market for trading property-backed tokens.

4. Implement Enhanced Security Measures

- a) **Goal:** Ensure safe and reliable transactions.
- b) **Action:** Incorporate multi-signature wallets, encryption, and identity verification.

Cardano Solutions to Property Industry Problems – 1100070 – Closeout Report – Bernard Sibanda

5. Optimize Platform Scalability & Performance

- a) **Goal:** Maintain efficiency as transaction volumes grow.
- b) **Action:** Continuously upgrade blockchain infrastructure for low-cost, high-speed transactions.

M: Final Thoughts on Cardano's Role in Real Estate

a) Key Strengths:

1. **Transparency & Trust:** Immutable records reduce fraud and improve ownership tracking.
2. **Decentralization & Efficiency:** Eliminates intermediaries, cutting costs and delays.
3. **Financial Inclusion:** Tokenization allows smaller investors to access real estate markets.
4. **Regulatory Innovation:** Collaboration with authorities ensures legal adoption.
5. **Sustainability:** Blockchain integration supports green property certifications.

b) Opportunities Moving Forward:

- **Global Expansion:** Disrupt traditional markets with blockchain-based solutions.
- **Improved User Experience:** Simplifying adoption for non-technical users.
- **Comprehensive Real Estate Platform:** Integrate investment, management, legal, and financial services.

N: Challenges to Address:

- **Scalability:** Ensure network efficiency as adoption grows.
- **Legal Hurdles:** Navigate evolving regulations in different jurisdictions.
- **Education:** Increase awareness among traditional industry players.

O: Links to other relevant project sources or documents.

<https://github.com/wimsio/cardanopropertysolutions>

<https://cardanopropertysolutions.co/>

Link to Close-out video - must be either YouTube or Vimeo link only

<https://www.youtube.com/watch?v=vvZ-j3oYiGA>

22 minute long application demo is here : https://www.youtube.com/watch?v=52K8Ja_BxRI