



F10: Develo...



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[Votos netos o...](#)

Usted · 07/11/2023 12:24 PM · Idea #24758 · Puntos de vista 44

 [Darse de baja](#)

F10: Development & Infrastructure



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07/11/2023 12:24 PM · Idea #24758 · Puntos de vista 44

### Answer:

Lack of a transparent and efficient system for waste and recycling activities effectively.

[+ Agregar etiquet...](#)[blockchain](#)[business](#)[cardano](#)[collaboration](#)[education](#)[infrastructure](#)[oracle](#)[scaling](#)[smart-contract](#)

### [GENERAL] Name and Surname of Main Applicant

#### Answer:

Guillermo Lucero

### [GENERAL] Email address of Main Applicant

#### Answer:

guillermo.lucero@energiasocial.co

### Additional Applicants

#### Answer:

[Volver arriba](#)



F10: Develo...



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**Votos netos o...**

Usted · 07/11/2023 12:24 PM · Idea #24758 · Puntos de vista 44

[GENERAL] Please specify how many months you expect your project to last (from 2-12 months)

**Answer:**

9

[GENERAL] Please indicate if your proposal has been auto-translated into English from another language.

**Auto-translated?**

No

[GENERAL] Summarize your solution to the problem (200-character limit including spaces)

**Answer:**

Develop an intuitive and user-friendly application that enables users to manage their waste and recycling activities effectively and empowers users to contribute to a greener environment.

[GENERAL] Website/ GitHub repository, or any other relevant link

**Link**

<https://energiasocial.co>

**Link 2**

<https://www.linkedin.com/company/energiasocial>

**Link 3**

<https://txpipe.io>

[GENERAL] Does your project have any dependencies on other organizations, technical or otherwise?

**Volver arriba**

**Answer:**

Yes



F10: Develo...



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**Votos netos o...**

Usted · 07/11/2023 12:24 PM · Idea #24758 · Puntos de vista 44

Our social sustainable integrated strategies in Argentina and Latin America region.

By combining the expertise of @energiasocial experienced professionals in the energy sector and sustainable strategies development and @txpipe team's proficiency in Cardano blockchain technology, we make a powerful blend of knowledge and skills to this project. Our existing capabilities and successful project implementations demonstrate why we are best suited to deliver these tools and mobile apps, ensuring a seamless integration of sustainability strategies and blockchain technology to generate long term social sustainable impact.

<https://txpipe.io/>  
<https://www.linkedin.com/company/txpipe/>  
[https://twitter.com/txpipe\\_tools](https://twitter.com/txpipe_tools)  
<https://github.com/txpipe>

[GENERAL] Will your project outputs be fully Open Source?

**Answer:**

No

[GENERAL] If NO, please describe which outputs are not going to be open source. If YES, please write "Project will be fully open source." in this field.

**Answer:**

1. Municipalities, government entities must comply with payment requirements for use and application of the technologies developed.
2. Use and application of the technologies developed, by contract between parties, must be open source to use by community users.
3. Recycling Partners collaboration agreements, monetization contracts on results

**Volver arriba**

[METADATA] Category of Proposal



F10: Develo...



## GreenCycle // Cardano Smart Waste and Recycling Management Solution powered by @energiasocial

**Votos netos o...**

Usted · 07/11/2023 12:24 PM · Idea #24758 · Puntos de vista 44

The proposed WRMBO application aligns with several United Nations Sustainable Development Goals (SDGs), sub-goals, and Key Performance Indicators (KPIs) related to waste management, sustainable consumption, and environmental protection. The following is a detailed SDG rating for the proposal:

- SDG 12: Responsible Consumption and Production
  - Sub-goal 12.2: Sustainable Management and Efficient Use of Natural Resources
    - KPI: Increase in the percentage of recycled waste materials compared to total waste generated.
    - KPI: Reduction in the per capita generation of waste.
- SDG 13: Climate Action
  - Sub-goal 13.3: Improving Education, Awareness, and Institutional Capacity on Climate Change Mitigation, Adaptation, Impact Reduction, and Early Warning.
    - KPI: Number of users educated and engaged in sustainable waste management practices through the application.
    - KPI: Increase in the adoption of sustainable consumption habits.
- SDG 14: Life Below Water
  - Sub-goal 14.1: Prevent and Reduce Marine Pollution
    - KPI: Increase in the proper disposal and recycling of waste materials to prevent marine pollution.
    - KPI: Reduction in the amount of waste materials entering water bodies.
- SDG 15: Life on Land
  - Sub-goal 15.3: Combat Desertification, Restore Degraded Land, and Soil
    - KPI: Increase in the recycling of organic waste materials to improve soil health and fertility.
    - KPI: Reduction in the disposal of waste materials in landfills, minimizing land degradation.
- SDG 17: Partnerships for the Goals
  - Sub-goal 17.16: Enhance the Global Partnership for Sustainable Development
    - KPI: Number of partnerships established with recycling facilities, waste management companies,

**Volver arriba**



F10: Develo...



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**Votos netos o...**

Usted · 07/11/2023 12:24 PM · Idea #24758 · Puntos de vista 44

To assess the impact of the WRMBO application on these SDGs and associated KPIs, periodic monitoring and evaluation will be crucial. Data on waste generation, recycling rates, user engagement, and environmental impact should be collected and analyzed regularly to measure progress and identify areas for improvement.

By addressing these SDGs and their sub-goals, the proposed application aims to create a significant positive impact on waste management practices, sustainable consumption habits, and the preservation of the environment. Through the use of Oracle Blockchain technology, transparency, traceability, and accountability will be enhanced, leading to more effective waste management and a greener future.

Please note that the specific SDGs, sub-goals, and KPIs mentioned in this rating are just examples, and a comprehensive assessment tailored to your organization's objectives and priorities should be conducted to identify the most relevant indicators for tracking progress and impact.

### [IMPACT] Please describe your proposed solution.

#### Answer:

The development of our Waste and recycling management Blockchain Oracle (WRMBO) application, will be designed to revolutionize waste management practices by focusing on the generation of user garbage at the point of consumption. Our innovative solution aims to leverage Blockchain Oracle technology to streamline waste management processes, enhance sustainability efforts, and promote responsible consumption habits.

The primary objective of this proposal is to develop an intuitive and user-friendly application that enables users to manage their waste and recycling activities effectively. By harnessing the power of Blockchain Oracle, we can establish a transparent and secure platform that facilitates traceability, incentivizes recycling behavior, and empowers users to contribute to a greener environment.

**Volver arriba**



F10: Develo...



## GreenCycle // Cardano Smart Waste and Recycling Management Solution powered by @energiasocial

**Votos netos o...**

Usted · 07/11/2023 12:24 PM · Idea #24758 · Puntos de vista 44

Blockchain technology to establish a transparent and auditable system. Users can track their waste from the point of disposal to the recycling facility, ensuring accountability and trust in the recycling process.

2. Inefficient Waste Management: Traditional waste management systems can be inefficient, leading to improper disposal of waste and limited recycling efforts. The proposed application aims to streamline waste management processes by providing users with a user-friendly platform that facilitates easy and accurate waste disposal and recycling. By incentivizing users and providing access to a network of recycling facilities, the application promotes responsible waste management and encourages individuals to actively participate in recycling efforts.
3. Lack of User Engagement: Many people are unaware of the environmental impact of their waste generation and lack the motivation to adopt sustainable consumption habits. The application addresses this problem by incorporating an incentives and rewards system. By earning points or tokens for their recycling efforts, users are incentivized to actively engage in waste reduction and recycling practices. This not only promotes user participation but also cultivates a sense of responsibility and ownership towards waste management.
4. Limited Data and Insights: The lack of comprehensive data on waste generation, recycling rates, and user behavior hinders effective waste management strategies. The proposed application collects and analyzes data on recycling patterns, user behavior, and environmental impact. These insights enable organizations and policymakers to make data-driven decisions, identify areas for improvement, and develop targeted sustainability initiatives. By leveraging these insights, waste management efforts can be optimized, leading to more effective and sustainable practices.

Overall, the proposed WRMBO application addresses the problems of transparency, inefficiency, user engagement, and limited data in waste management and recycling. By providing a user-friendly platform, incentivizing recycling behavior, and leveraging blockchain technology, the application aims to revolutionize waste management

**Volver arriba**



F10: Develo...



## GreenCycle // Cardano Smart Waste and Recycling Management Solution powered by @energiasocial

[Votos netos o...](#)

Usted · 07/11/2023 12:24 PM · Idea #24758 · Puntos de vista 44

ogy, the proposed application ensures the immutability and traceability of waste disposal and recycling data. This approach enhances transparency, accountability, and trust in the recycling process, addressing concerns related to the lack of visibility in traditional waste management systems.

2. User-Centric Design: The proposed application emphasizes a user-friendly interface and intuitive design. By focusing on the user experience, we aim to encourage widespread adoption and active engagement from individuals. The ease of use and accessibility of the application are crucial factors in motivating users to actively participate in waste reduction and recycling efforts.
3. Incentives and Rewards System: Incorporating an incentives and rewards system within the application serves as a powerful motivator for users to adopt sustainable waste management practices. By providing tangible benefits such as points, tokens, discounts, or charitable contributions, the application incentivizes individuals to recycle and rewards them for their efforts. This approach encourages behavioral change and fosters a sense of responsibility towards waste management.
4. Collaboration with Stakeholders: The proposal highlights the importance of collaboration with recycling facilities, waste management companies, and other relevant stakeholders. By establishing partnerships and integrating their services within the application, users gain access to a comprehensive network of recycling options and resources. This collaborative approach promotes a holistic waste management ecosystem and ensures the seamless flow of information and materials.
5. Data-Driven Decision Making: The proposed application prioritizes data collection and analysis to generate valuable insights into waste generation, recycling patterns, and user behavior. By leveraging these insights, organizations and policy-makers can make informed decisions, optimize waste management strategies, and develop targeted initiatives. This data-driven approach ensures continuous improvement and enhances the effectiveness of waste management practices.

By combining these considerations, the proposed approach aims to tackle the challenges faced in waste management and recycling practices. The focus on transparency, user engagement, incentives,

[Volver arriba](#)



F10: Develo...



## GreenCycle // Cardano Smart Waste and Recycling Management Solution powered by @energiasocial

**Votos netos o...**

Usted · 07/11/2023 12:24 PM · Idea #24758 · Puntos de vista 44

1. Consumers: The project will primarily engage individual consumers who generate waste at the point of consumption. By providing them with the WRMBO application, consumers will actively participate in waste management by tracking their waste, disposing of it responsibly, and recycling materials. The incentives and rewards system will encourage consumer engagement and behavior change towards sustainable waste management practices.
2. Recycling Facilities: Collaboration with recycling facilities is vital for the success of the project. By establishing partnerships with these facilities, the project can ensure proper handling and processing of recycled materials. The application will provide a platform for recycling facilities to connect with consumers, schedule pickups, and streamline communication. It will also enable them to verify and validate the recycling process, ensuring transparency and accountability.
3. Waste Management Companies: Engaging waste management companies is crucial for the smooth integration and coordination of waste collection and disposal. The project will collaborate with these companies to facilitate the proper collection of waste materials and ensure they are directed to the appropriate recycling facilities. By establishing seamless communication channels, the project aims to optimize waste management operations and improve overall efficiency.
4. Government Agencies and Regulatory Bodies: Collaboration with government agencies and regulatory bodies is important to align the project with existing waste management policies and regulations. Engaging these stakeholders will help ensure compliance with legal requirements, foster support for the project, and facilitate the implementation of sustainable waste management practices on a broader scale. The project can provide valuable data and insights to assist in policy formulation and decision-making processes.
5. Non-Governmental Organizations (NGOs): NGOs working in the field of environmental conservation, waste management, and sustainability will be engaged to collaborate and provide expertise. These organizations can contribute by raising awareness, conducting educational campaigns, and promoting the project's objectives. They can also provide guidance

**Volver arriba**



F10: Develo...



## GreenCycle // Cardano Smart Waste and Recycling Management Solution powered by @energiasocial

**Votos netos o...**

Usted · 07/11/2023 12:24 PM · Idea #24758 · Puntos de vista 44

technology.

The engagement of these stakeholders will create a collaborative ecosystem where consumers, recycling facilities, waste management companies, government agencies, NGOs, and technology experts work together to promote responsible waste management practices and achieve sustainable development goals.

To demonstrate and prove the impact of the WRMBO project, the following strategies can be employed:

By employing a combination of data analysis, performance tracking, user surveys, case studies, external evaluation, and transparent reporting, the project can effectively demonstrate and prove its impact on waste management practices, recycling rates, user engagement, and environmental sustainability.

1. Data Collection and Analysis: The project will collect comprehensive data on waste generation, recycling rates, user behavior, and environmental impact. This data will be analyzed to generate insights and measure the project's impact over time. Key metrics, such as the percentage of recycled waste materials, reduction in waste generation, and user engagement levels, will serve as quantifiable indicators of impact.
2. Performance Tracking: The project will establish key performance indicators (KPIs) aligned with the project goals and objectives. These KPIs will be regularly tracked and monitored to evaluate progress and impact. Examples of KPIs may include the number of users registered and actively using the application, the amount of waste materials diverted from landfills through recycling, and the reduction in carbon emissions resulting from improved waste management practices.
3. User Surveys and Feedback: Conducting user surveys and seeking feedback from stakeholders will provide qualitative insights into the project's impact. Surveys can assess user satisfaction, behavior change, and perception of the application's effectiveness. Feedback will be collected regularly to identify areas for improvement and measure the perceived value of the project from the perspective of users and stakeholders.

**Volver arriba**



F10: Develo...



## GreenCycle // Cardano Smart Waste and Recycling Management Solution powered by @energiasocial

**Votos netos o...**

Usted · 07/11/2023 12:24 PM · Idea #24758 · Puntos de vista 44

evaluators, such as academic institutions, research organizations, or independent auditors, can provide objective assessment and validation of the project's impact. These evaluators can conduct independent studies, evaluate the effectiveness of the project's strategies, and provide an unbiased assessment of its outcomes.

6. Reporting and Communication: Regular reporting and communication with stakeholders, including project updates, progress reports, and impact assessments, will help demonstrate the project's impact. This can be done through newsletters, annual reports, public presentations, and social media channels. Transparent and open communication about the project's achievements, challenges, and lessons learned will foster trust and credibility among stakeholders.

The decision to run the Blockchain Oracle recycling application on the Cardano blockchain main net brings several unique advantages to the solution, benefiting both users and the Cardano ecosystem. The following highlights what is unique about the proposed solution, who will benefit, and why it is important to Cardano:

1. Integration with Cardano's Blockchain Infrastructure: Cardano is known for its secure, scalable, and sustainable blockchain infrastructure. By leveraging the Cardano blockchain, the Oracle Blockchain recycling application can ensure data integrity, immutability, and resilience, providing a robust foundation for the application's operations. The integration with Cardano's blockchain infrastructure enhances the security and reliability of the solution, building trust among users and stakeholders.
2. Sustainability and Environmental Focus: Cardano is designed with a strong emphasis on sustainability and environmental impact. The WRMBO application aligns perfectly with Cardano's values by promoting responsible waste management practices, reducing carbon emissions through improved recycling, and fostering sustainable consumption habits. The solution contributes to Cardano's mission of achieving social and environmental sustainability.
3. Interoperability and Ecosystem Collaboration: Cardano's focus on interoperability enables seamless integration with other

**Volver arriba**



F10: Develo...



## GreenCycle // Cardano Smart Waste and Recycling Management Solution powered by @energiasocial

**Votos netos o...**

Usted · 07/11/2023 12:24 PM · Idea #24758 · Puntos de vista 44

transparency, traceability, and incentives for recycling activities. Users benefit from the ability to track their waste disposal and recycling journey, earn rewards for their efforts, and contribute to a greener environment. The application's user-centric design, combined with the use of Cardano's blockchain technology, ensures a seamless and engaging user experience, fostering active participation in waste management and sustainability efforts.

5. Enhanced Scalability and Adoption Potential: Cardano's blockchain architecture is designed for scalability, enabling the WRMBO application to accommodate a growing user base and handle increasing transaction volumes. The scalability of Cardano's blockchain infrastructure ensures that the application can scale alongside user demand, facilitating widespread adoption and greater impact in waste management practices. This scalability is particularly crucial for a solution that aims to engage a large number of users and recycling facilities.

Overall, the unique aspects of the proposed solution running on Cardano's blockchain main net include its integration with Cardano's blockchain infrastructure, focus on sustainability, interoperability, user empowerment, and scalability. The application's alignment with Cardano's values and technical capabilities strengthens its potential for success, benefiting users, recycling facilities, and the broader Cardano ecosystem. By promoting responsible waste management practices and sustainability, the solution contributes to Cardano's vision of creating a better and more sustainable future.

**[IMPACT]** How does your proposed solution address the challenge and what benefits will this bring to the Cardano ecosystem?

**Answer:**

The Waste and Recycling Blockchain Oracle or WRMBO, proposed solution addresses the challenge for development and infrastructure by leveraging the Cardano ecosystem's robust and scalable blockchain infrastructure. Here's how the solution tackles this challenge and the benefits it brings to the Cardano ecosystem:

**Volver arriba**



F10: Develo...



## GreenCycle // Cardano Smart Waste and Recycling Management Solution powered by @energiasocial

**Votos netos o...**

Usted · 07/11/2023 12:24 PM · Idea #24758 · Puntos de vista 44

the solution's operations.

2. Interoperability: Cardano's focus on interoperability allows the WRMBO application to seamlessly integrate with other blockchain networks and protocols. This interoperability enables the application to collaborate with other sustainability-focused projects and platforms, expanding its reach, data exchange capabilities, and potential for ecosystem collaboration. By utilizing Cardano's interoperability features, the solution can tap into a broader network of stakeholders and initiatives, enhancing its development potential and impact.
3. Scalability: Cardano's blockchain infrastructure is designed to be scalable, allowing for increased transaction throughput and accommodating a growing user base. This scalability is crucial for the WRMBO application as it aims to engage a large number of users, recycling facilities, and waste management organizations. By leveraging Cardano's scalability features, the solution can handle increased transaction volumes, ensuring a smooth user experience and facilitating the adoption and growth of the application within the Cardano ecosystem.
4. Network Effects and User Adoption: By utilizing the Cardano ecosystem, the WRMBO application can benefit from the network effects and user adoption already established within the Cardano community. Cardano's ecosystem includes a diverse range of stakeholders, including developers, users, and enterprises, creating a vibrant community for collaboration and knowledge sharing. The application can leverage this existing user base and community engagement to accelerate user adoption, gather feedback, and foster a sustainable ecosystem of waste management and recycling stakeholders.
5. Environmental Impact and Sustainability: By addressing the waste and recycling challenges through a blockchain-based solution, the WRMBO application aligns with Cardano's focus on sustainability and environmental impact. The solution's ability to enhance waste management practices, promote responsible consumption habits, and reduce environmental harm aligns with Cardano's mission to create a sustainable future. The application's positive environmental impact further strengthens the Cardano ecosystem's reputation as a blockchain platform that prioritizes sustainability and social responsibility.

**Volver arriba**



F10: Develo...



## GreenCycle // Cardano Smart Waste and Recycling Management Solution powered by @energiasocial

**Votos netos o...**

Usted · 07/11/2023 12:24 PM · Idea #24758 · Puntos de vista 44

Quantifying the impact of a project is a complex task that depends on various factors, including market dynamics, user adoption, and external factors. While we can provide a general perspective, it's important to note that the actual impact may vary based on specific circumstances and implementation.

The WRMBO project has the potential to bring several tangible benefits to the Cardano ecosystem within a reasonable timeframe. Here are some potential impacts to consider:

1. Increased User Adoption: The project aims to engage individual consumers, recycling facilities, waste management companies, and other stakeholders. Assuming effective marketing and user engagement strategies, it is reasonable to anticipate a steady increase in user adoption within the Cardano ecosystem. The application's user-centric design, incentives, and transparency can attract a significant number of users, thereby expanding the Cardano community.
2. Improved Waste Management Practices: The project addresses key challenges in waste management by promoting responsible waste disposal and recycling. By incentivizing users and enhancing transparency, the project can encourage individuals to actively participate in waste reduction efforts. This can result in improved waste management practices within the Cardano ecosystem, leading to reduced environmental impact and more sustainable consumption habits.
3. Expanded Ecosystem Collaboration: The project's emphasis on collaboration with recycling facilities, waste management companies, and other stakeholders can foster ecosystem growth and collaboration. By establishing partnerships and integrating with existing sustainability initiatives, the project can leverage the network effects of the Cardano ecosystem and contribute to a broader ecosystem of waste management and recycling stakeholders.
4. Positive Environmental Impact: As users engage with the application, the project has the potential to divert a significant amount of waste materials from landfills to recycling facilities within the Cardano ecosystem. This reduction in waste generation and improved recycling rates can lead to a positive envi-

**Volver arriba**



F10: Develo...



## GreenCycle // Cardano Smart Waste and Recycling Management Solution powered by @energiasocial

[Votos netos o...](#)

Usted · 07/11/2023 12:24 PM · Idea #24758 · Puntos de vista 44

user acquisition and retention strategies.

It's important to note that accurate measurement and tracking of these metrics will be essential to evaluate the project's progress and impact over time. Monitoring user engagement, transaction volumes, recycling rates, and user feedback will provide valuable insights into the actual impact achieved by the project within the Cardano ecosystem.

Ultimately, the success and impact of the WRMBO project on the Cardano ecosystem will be determined by the collective efforts of the project team, ecosystem stakeholders, and the community's reception and adoption of the solution.

### Key Features and Functionality:

Our proposed WRMBO application will offer the following key features and functionality:

1. User Registration and Profile Creation: Users will be able to create individual profiles within the application, providing personal information and waste preferences to tailor the recycling experience.
1. Garbage Tracking and Verification: The application will allow users to track their garbage from the point of disposal to the recycling facility using QR codes or unique identifiers. Oracle Blockchain technology will ensure the authenticity and verifiability of each item's recycling journey.
1. Incentives and Rewards System: To encourage active participation, the application will implement a rewards system. Users will earn points or tokens for recycling activities, which can be redeemed for discounts, vouchers, or charitable donations.
1. Recycling Education and Tips: The application will provide educational resources, recycling guidelines, and personalized tips to promote responsible waste management practices and raise awareness about sustainable consumption habits.

[Volver arriba](#)



F10: Develo...



## GreenCycle // Cardano Smart Waste and Recycling Management Solution powered by @energiasocial

**Votos netos o...**

Usted · 07/11/2023 12:24 PM · Idea #24758 · Puntos de vista 44

identifying trends, improving waste management strategies, and developing targeted sustainability initiatives.

### [IMPACT] How do you intend to measure the success of your project?

#### Answer:

To measure the success of the WRMBO application and its benefits for the Cardano ecosystem, a combination of quantitative and qualitative metrics can be employed. Here's an overview of the metrics that can be measured and why they are realistic:

#### Benefits for the Cardano Ecosystem:

A. Increased User Adoption: The WRMBO application can attract new users to the Cardano ecosystem. Measuring this can be done by tracking the number of new users registering and actively using the application. Additionally, user surveys and feedback can provide qualitative insights into their satisfaction, engagement, and overall experience.

1. Quantitative: Number of new users registered, active users, and user growth rate within the Cardano ecosystem. These metrics can be tracked through user registration data and application usage analytics.
2. Qualitative: User satisfaction surveys, feedback on user experience, and user testimonials. These qualitative measures provide insights into user opinions, engagement, and overall satisfaction with the application.

B. Enhanced Ecosystem Engagement: The project's collaboration with recycling facilities, waste management companies, and other stakeholders can strengthen the engagement and collaboration within the Cardano ecosystem. Measuring this can involve assessing the number of partnerships established, the level of collaboration, and the ecosystem's overall response and involvement in waste management initiatives.

**Volver arriba**



F10: Develo...



## GreenCycle // Cardano Smart Waste and Recycling Management Solution powered by @energiasocial

[Votos netos o...](#)

Usted · 07/11/2023 12:24 PM · Idea #24758 · Puntos de vista 44

ness and ecosystem involvement.

C. Positive Environmental Impact: The project's focus on responsible waste management and recycling can contribute to a greener ecosystem. Quantitative measurements can include tracking the volume of waste materials diverted from landfills to recycling facilities within the Cardano ecosystem. Additionally, qualitative feedback from users and stakeholders can provide insights into their perceptions and satisfaction regarding the project's environmental impact.

1. Quantitative: Volume of waste materials diverted from landfills to recycling facilities within the Cardano ecosystem. This metric measures the project's contribution to waste reduction and environmental sustainability.
2. Qualitative: User feedback on the perception of the application's environmental impact, user testimonials highlighting positive changes in waste management practices, and qualitative assessments of the project's contribution to sustainability.

D. Reinforced Reputation: The WRMB application can enhance Cardano's reputation as a blockchain platform that prioritizes sustainability and social responsibility. This can be measured through stakeholder perception surveys, social media sentiment analysis, and external reviews or articles that highlight Cardano's commitment to sustainable solutions.

1. Quantitative: Social media sentiment analysis, external reviews or articles highlighting Cardano's commitment to sustainability, and ecosystem perception surveys. These metrics provide an understanding of Cardano's reputation and how the project contributes to shaping that reputation.
2. Qualitative: Qualitative assessments of the project's impact on Cardano's reputation, feedback from ecosystem stakeholders on Cardano's commitment to sustainable solutions, and user testimonials that demonstrate positive perceptions of Cardano's sustainability efforts.

[Volver arriba](#)



F10: Develo...



## GreenCycle // Cardano Smart Waste and Recycling Management Solution powered by @energiasocial

**Votos netos o...**

Usted · 07/11/2023 12:24 PM · Idea #24758 · Puntos de vista 44

with the WRMB application.

- Expanded user base: As more users engage with the application, Cardano's user base will expand, leading to increased network effects, ecosystem growth, and potential for future collaborations. Tracking the growth rate of active users within the Cardano ecosystem can provide a measure of short-term impact on productivity and growth.

### In the Long Term:

- Ecosystem maturity and diversity: The project's success can contribute to the long-term maturity and diversification of the Cardano ecosystem. This can be measured by assessing the variety and number of sustainability-focused applications and projects built on Cardano, indicating the growth and adoption of sustainable solutions within the ecosystem.
- Investor confidence and ecosystem value: Successful implementation of sustainable solutions like the WRMB can boost investor confidence in Cardano, attracting more projects and increasing the overall value of the ecosystem. External evaluations, market capitalization, and investor sentiment can provide insights into the long-term growth and productivity of Cardano.
- Sustainable partnerships: The project's collaborations with recycling facilities, waste management companies, and sustainability-focused organizations can establish long-term partnerships that contribute to the ecosystem's growth and productivity. Tracking the number of sustainable partnerships formed and their ongoing activities can demonstrate the long-term impact of the innovation on ecosystem development.

It's important to note that while quantitative measurements can provide tangible indicators, qualitative measures such as user feedback, stakeholder surveys, and market perception play a crucial role in assessing the project's impact on the Cardano ecosystem's productivity, growth, and reputation. A combination of quantitative and qualitative metrics provides a comprehensive understanding of the project's benefits and its long-term influence on the ecosystem.

**Volver arriba**



F10: Develo...



## GreenCycle // Cardano Smart Waste and Recycling Management Solution powered by @energiasocial

**Votos netos o...**

Usted · 07/11/2023 12:24 PM · Idea #24758 · Puntos de vista 44

1. Dissemination to Stakeholders: The project will actively engage and share its outputs with stakeholders, including recycling facilities, waste management companies, government agencies, NGOs, and the Cardano community. This will involve organizing workshops, conferences, and webinars where project findings, lessons learned, and best practices can be shared. Stakeholders will have the opportunity to learn from the project's outcomes and explore potential collaborations.
2. Publication and Reports: The project intends to publish its results, findings, and insights in peer-reviewed journals, industry publications, and relevant conferences. These publications will contribute to the existing body of knowledge in waste management, blockchain applications, and sustainability. Research reports summarizing the project's methodology, outcomes, and impact will also be made publicly available to provide transparency and share key findings.
3. Collaboration with Research Institutions: The project aims to collaborate with research institutions and academia to further research and development activities. By sharing project results with researchers and academics, the outputs can be used as a basis for further studies, analysis, and innovation in waste management and blockchain technology. This collaboration can lead to new insights and advancements in the field.
4. Online Platforms and Documentation: The project will establish an online presence through a dedicated website or platform. This platform will serve as a central hub for sharing project updates, documentation, research papers, case studies, and other relevant materials. It will provide a repository of knowledge and resources for stakeholders, researchers, and interested individuals to access and benefit from the project's outputs.
5. Collaboration with Cardano Community: The project will actively engage with the Cardano community through forums, social media, and other channels. By sharing the project's outputs, impact, and opportunities within the Cardano ecosystem, it can inspire and encourage community members to explore similar initiatives, collaborate on sustainability-focused projects, and drive further innovation.

**Volver arriba**



F10: Develo...



## GreenCycle // Cardano Smart Waste and Recycling Management Solution powered by @energiasocial

**Votos netos o...**

Usted · 07/11/2023 12:24 PM · Idea #24758 · Puntos de vista 44

By adopting a comprehensive dissemination strategy that includes engaging stakeholders, publishing results, collaborating with research institutions, utilizing online platforms, and involving the Cardano community, the project aims to maximize the spread of its outputs and ensure the knowledge gained can be widely shared and utilized.

**[CAPABILITY/ FEASIBILITY]** What is your capability to deliver your project with high levels of trust and accountability?

**Answer:**

@energiasocial and @txpipe have signed a joint development agreement to explore the integration of blockchain into @energiasocial #energywithpurpose business models and help scale the impact of our social sustainable integrated strategies in Argentina and LATAM region.

Our team, along with our trusted partner @TxPipe, brings a wealth of experience and expertise in blockchain development on the Cardano main net. Here are the existing capabilities that demonstrate why we are best suited to deliver the WRMBO application with high levels of trust and accountability:

1. Track Record of Blockchain Development: Our team and partner have a proven track record of successfully delivering blockchain projects on various platforms, including the Cardano main net. We have experience in developing decentralized applications (DApps) and smart contracts, ensuring secure and efficient solutions. Our past projects demonstrate our ability to execute and deliver blockchain-based applications in a timely and reliable manner.
2. Expertise in Cardano Development: Our team and partner possess deep knowledge and expertise in Cardano's blockchain technology and infrastructure. We understand the intricacies of Cardano's architecture, consensus mechanism, and smart contract capabilities, enabling us to leverage the platform's features effectively. This expertise ensures that the

**Volver arriba**



F10: Develo...



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**Votos netos o...**

Usted · 07/11/2023 12:24 PM · Idea #24758 · Puntos de vista 44

accountability.

4. Proper Fund Management: We adhere to strict financial management processes to ensure the proper handling and allocation of funds for the project. Our team and partner will establish clear financial procedures, including budgeting, cost tracking, and reporting. We will provide transparent documentation and regular updates on fund utilization, ensuring that resources are managed efficiently and in accordance with project requirements.
5. Secure and Reliable Solutions: Data security and reliability are paramount in blockchain applications. Our team and partner prioritize the implementation of robust security measures and best practices throughout the development process. We conduct thorough testing and quality assurance procedures to ensure that the WRMBO application is resilient, secure, and capable of handling user data and transactions with the utmost integrity.
6. Client Satisfaction and References: Our past clients and partners can serve as references attesting to our professionalism, expertise, and ability to deliver quality blockchain solutions. We have a strong commitment to client satisfaction, and our testimonials and case studies highlight successful collaborations and positive project outcomes.

By leveraging our team's expertise, our partner's experience in Cardano development, our collaborative approach, proper fund management processes, commitment to data security, and a track record of client satisfaction, we have the necessary capabilities to deliver the WRMBO application with high levels of trust and accountability.

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### Management

- Objective: Develop a blockchain-based application that enables users to track the journey of their waste from disposal to recycling.
- Validation: User feedback on the application's transparency and ability to provide real-time tracking of waste disposal and recycling.
- Goal: Promote Responsible Waste Management Practices
  - Objective: Incentivize users to actively engage in waste reduction and recycling activities through rewards and gamification features.
  - Validation: Measure user participation rates and feedback on the effectiveness of incentives in motivating sustainable waste management practices.
- Goal: Improve Recycling Rates and Reduce Environmental Impact
  - Objective: Increase the volume of waste materials diverted from landfills to recycling facilities within the Cardano ecosystem.
  - Validation: Quantify the percentage increase in recycling rates within the Cardano ecosystem and measure the volume of waste materials recycled.
- Goal: Foster Ecosystem Collaboration and Partnerships
  - Objective: Collaborate with recycling facilities, waste management companies, and other stakeholders within the Cardano ecosystem.
  - Validation: Measure the number of established partnerships and evaluate the effectiveness of collaboration through feedback and the achievement of shared goals.
- Goal: Drive User Adoption and Engagement
  - Objective: Attract a substantial number of users to actively use the Waste and Recycling Blockchain Oracle application within the Cardano ecosystem.
  - Validation: Quantify the number of registered and active users, monitor user engagement metrics (e.g., frequency of usage, interaction with features), and gather qualitative feedback on user experience and satisfaction.

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2. Prototype Development: We will develop a functional prototype of the application to validate its core features and functionalities. This prototype will serve as a proof of concept, allowing us to assess the feasibility of implementing the proposed approach within the Cardano ecosystem.
3. User Testing and Feedback: User testing sessions will be conducted to gather feedback on the prototype's usability, user experience, and overall satisfaction. This feedback will help us validate the practicality and effectiveness of the approach from a user perspective.
4. Iterative Development: Based on user feedback and validation results, we will refine and iterate on the application's design and functionality. This iterative development approach will ensure that the final solution meets the project's goals and objectives effectively.
5. Performance Monitoring: Once the application is deployed, we will continuously monitor its performance, including transaction volumes, user engagement metrics, and other relevant indicators. These measurements will allow us to evaluate the achievement of the project's goals and track its impact within the Cardano ecosystem.

By following these steps, we can validate the feasibility of our approach, refine the solution based on user feedback, and measure the project's success against the defined goals and objectives.

**[CAPABILITY/ FEASIBILITY]** Please provide a detailed breakdown of your project's milestones and each of the main tasks or activities to reach the milestone plus the expected timeline for the delivery.

**Answer:**

Milestone Breakdown for the Waste and Recycling Blockchain Oracle Project:

**Milestone 1: Project Initiation and Requirements Gathering**

- Activities: Establish project team, conduct initial project meetings, define project scope and objectives, gather requirements from stakeholders.
- Timeline: 2 weeks

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improvements.

### Milestone 3: Application Development and Integration with Cardano

- Activities: Develop the full-fledged Waste and Recycling Blockchain Oracle application, integrate with the Cardano blockchain, implement tracking and incentivization features.
- Timeline: 12 weeks
- Success Criteria: Complete development of the application, successful integration with Cardano, tracking and incentivization features implemented.

### Milestone 4: User Testing and Iterative Refinement

- Activities: Conduct user testing sessions, gather feedback, make iterative improvements to the application based on user input.
- Timeline: 4 weeks
- Success Criteria: User testing sessions conducted, user feedback collected, application refinements implemented based on feedback.

### Milestone 5: Deployment and Launch

- Activities: Prepare the application for deployment on the Cardano main net, conduct final testing and quality assurance, launch the Waste and Recycling Blockchain Oracle application.
- Timeline: 4 weeks
- Success Criteria: Application deployed on Cardano main net, final testing completed, successful launch of the application.

### Milestone 6: Monitoring and Evaluation

- Activities: Monitor application performance, track user engagement, gather data on waste management and recycling metrics, evaluate the project's impact.
- Timeline: Ongoing
- Success Criteria: Regular monitoring and evaluation processes established, data on application performance and impact collected for ongoing assessment.

### Implementation Plan and Project Management Approach:

1. Project Initiation: Establish the project team, define roles and responsibilities, and conduct an initial kickoff meeting to align stakeholders and set project objectives.
2. Requirements Gathering: Engage with stakeholders to gather detailed requirements for the Waste and Recycling Blockchain

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gration testing, and user acceptance testing. Implement a quality assurance process to identify and address any issues or bugs.

5. User Testing and Feedback: Conduct user testing sessions with a diverse group of participants to gather feedback on the application's usability, functionality, and user experience. Analyze the feedback and make iterative refinements to improve the application based on user input.
6. Deployment and Launch: Prepare the application for deployment on the Cardano main net, ensuring a smooth transition from the testing environment. Conduct final testing and quality assurance to verify the application's stability and performance before launching it to the public.
7. Monitoring and Evaluation: Implement ongoing monitoring and evaluation processes to track application performance, user engagement, and impact metrics. Regularly collect data on waste management and recycling metrics to assess the project's success and identify areas for improvement.

Throughout the project, project management methodologies such as Agile will be employed to ensure effective collaboration, frequent communication, and efficient progress tracking. Regular meetings, progress reports, and documentation will be utilized to provide transparency, manage risks, and maintain project timelines.

**[CAPABILITY/ FEASIBILITY] Please describe the deliverables, outputs and intended outcomes of each milestone.**

**Answer:**

Milestone 1: Project Initiation and Requirements Gathering

Deliverables and Outputs:

- Established project team and roles
- Project scope and objectives document
- Requirements gathering and documentation
- Kickoff meeting minutes and project plan

Intended Outcomes:

- Clear understanding of project objectives and scope
- Well-defined roles and responsibilities within the project team
- Documented requirements to guide the development process

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- Design documentation and wireframes
- Internal testing and bug reports
- Feedback gathering and analysis report

### Intended Outcomes:

- Functional prototype showcasing core features and user interface
- Identification of any design or usability issues through internal testing
- Feedback from testers to guide improvements and refinements

### Measurement of Progress:

- Completion of the functional prototype
- Review and resolution of internal testing issues
- Analysis report of feedback gathered from testers

## Milestone 3: Application Development and Integration with Cardano

### Deliverables and Outputs:

- Fully developed Waste and Recycling Blockchain Oracle application
- Integration with the Cardano blockchain
- Tracking and incentivization features implemented
- Technical documentation and user manuals

### Intended Outcomes:

- Complete application with all planned features and functionalities
- Successful integration of the application with the Cardano blockchain
- Implementation of tracking and incentivization mechanisms

### Measurement of Progress:

- Successful completion of the application development phase
- Verification of seamless integration with the Cardano blockchain
- Confirmation of the implementation of tracking and incentivization features

## Milestone 4: User Testing and Iterative Refinement

### Deliverables and Outputs:

- User testing report
- Feedback analysis and improvement plan
- Updated application with refinements based on user feedback

### Intended Outcomes:

- User-tested and user-centric application design

[Volver arriba](#)



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Usted · 07/11/2023 12:24 PM · Idea #24758 · Puntos de vista 44

- Implementation of refinements based on user feedback

### Milestone 5: Deployment and Launch

#### Deliverables and Outputs:

- Deployed Waste and Recycling Blockchain Oracle application on the Cardano main net
- Final testing and quality assurance reports
- Launch announcement and communication materials

#### Intended Outcomes:

- Successfully deployed application accessible to users on the Cardano main net
- Verified stability and performance of the application through testing and quality assurance
- Communication of the application's availability to stakeholders and target users

#### Measurement of Progress:

- Completion of deployment process on the Cardano main net
- Approval of the final testing and quality assurance reports
- Launch announcement and communication materials ready for distribution

### Milestone 6: Monitoring and Evaluation

#### Deliverables and Outputs:

- Monitoring and evaluation framework
- Regular reports on application performance and user engagement
- Data on waste management and recycling metrics

#### Intended Outcomes:

- Ongoing monitoring of the application's performance and user engagement
- Assessment of the application's impact on waste management and recycling practices
- Identification of areas for continuous improvement and optimization

#### Measurement of Progress:

- Establishment of the monitoring and evaluation framework
- Regular reports on application performance and user engagement metrics
- Collection and analysis of data on waste management and recycling metrics

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**Votos netos o...**

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management practices and ecosystem engagement

**[RESOURCES & VALUE FOR MONEY]** Please provide a detailed budget breakdown of the proposed work and resources.

**Answer:**

Following a detailed budget Breakdown for the WRMBO Project:

Milestone 1: Project Initiation and Requirements Gathering

- Project team salaries and overhead costs: ₡3,000

Milestone 2: Prototype Development and Testing

- Development resources: ₡10,000
- Testing and quality assurance resources: ₡2,000

Milestone 3: Application Development and Integration with Cardano

- Development resources: ₡25,000
- Cardano integration services: ₡3,000

Milestone 4: User Testing and Iterative Refinement

- User testing services: ₡3,000
- Development resources for refinements: ₡4,000

Milestone 5: Deployment and Launch

- Deployment services: ₡2,000
- Marketing and communication resources: ₡2,000

Milestone 6: Monitoring and Evaluation

- Monitoring and evaluation resources: ₡4,000

Additional Budget Elements:

- Publicity / Marketing / Promotion / Community Engagement:
- Marketing and promotional activities: ₡2,000
- Community engagement events and initiatives: ₡1,000
- Project Management:
- Project manager salary and overhead costs: ₡5,000
- Documentation and Reporting:
- Documentation and technical writing: ₡2,000

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**Votos netos o...**

Usted · 07/11/2023 12:24 PM · Idea #24758 · Puntos de vista 44

tise and services for integrating the Waste and Recycling Blockchain Oracle application with the Cardano blockchain. The cost for these services is estimated at ₩3,000.

- User Testing Services: External user testing services will be utilized to gather feedback on the application's usability and user experience. The cost for these services is estimated at ₩3,000.

### Alternative Sources of Funding:

If the project's cost exceeds the requested funding, alternative sources of funding could be explored. These may include:

- Seeking additional partnerships or sponsorships with organizations interested in waste management and sustainability initiatives.
- Applying for grants or funding opportunities specific to blockchain projects, waste management, or sustainable development.
- Exploring crowdfunding options to supplement the project budget.

The budget breakdown includes key elements such as development resources, testing services, Cardano integration, user testing, marketing, project management, documentation, reporting, and contingency. It reflects a budget of ₩75,000, ensuring that all necessary resources and costs are accounted for within the available funding.

### [RESOURCES & VALUE FOR MONEY] Who is in the project team and what are their roles?

#### Answer:

@energiasocial and @txpipe have signed a joint development agreement to explore the integration of blockchain into @energiasocial #energywithpurpose business models and help scale the impact of our social sustainable integrated strategies in Argentina and LATAM region.

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<https://github.com/txpipe>

[RESOURCES & VALUE FOR MONEY] How does the cost of the project represent value for money for the Cardano ecosystem?

**Answer:**

The cost of the project represents value for money for the Cardano ecosystem through a careful consideration of the resources, expertise, and deliverables required to achieve the project goals. The costs described in the budget breakdown are aligned with industry standards and provide a fair estimate of the expenses associated with each milestone. Here are some justifications and factors supporting the value for money:

1. Resource Allocation: The cost breakdown takes into account the allocation of resources, including development, testing, integration, user testing, deployment, marketing, project management, documentation, and monitoring. These resources are essential for the successful implementation of the Waste and Recycling Blockchain Oracle project on the Cardano ecosystem.
2. Market Rates and Industry Standards: The cost estimates for the various resources and services are based on market rates and industry standards. They are reflective of the skills, expertise, and time required to complete each task effectively. Market research and industry benchmarks have been considered in determining these rates to ensure they are fair and competitive.

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costs are justified by the value they bring to the Cardano ecosystem. For example, user testing services contribute to ensuring a user-friendly and intuitive application, while marketing and community engagement activities help promote the project and drive adoption.

5. Impact on the Cardano Ecosystem: The Waste and Recycling Blockchain Oracle project has the potential to bring significant benefits to the Cardano ecosystem in terms of transparent waste management, improved recycling rates, and sustainability. The costs associated with the project are investments in achieving these outcomes, which can lead to long-term positive impacts and growth within the ecosystem.

In summary, the costs described in the budget breakdown have been carefully considered and are justified based on industry standards, market rates, and the value they bring to the Cardano ecosystem. The project represents value for money by ensuring the necessary resources, expertise, and deliverables are provided to achieve the project goals and make a positive impact within the Cardano community.

**[IMPORTANT NOTE]** The Applicant agreed to Fund10 rules and also that data in the Submission Form and other data provided by the project team during the course of the project will be publicly available.

**Answer:**

I Accept

Añadir Ideas vinculadas

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@energiasocial #usuariogenerator

We are a renewable energy social business. Bringing solar energy solutions for your home and business. Take control of your energy cost, become a #usergenerator. Join the network with purpose of @energiasocial

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<https://ar.linkedin.com/company/energiasocial> ^

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@EnergiaSocialAr | 1,494 followers on LinkedIn. Una Empresa Social

de Energía Renovable | 'Change comes from within the system'

Muhammad Yunus A social enterprise is one that has a positive impact on the environment or society and, at the same time, is profitable as a business. According to Yunus, a social enterprise is a non-dividend organization that exists to address a social problem.

Investors can recover their investment but not get rich and therefore the benefits are reinvested in the organization so as not to divert the social mission of the company.



<https://txpipe.io/> ^

TxPipe.io

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Open-source software for a decentralized world.

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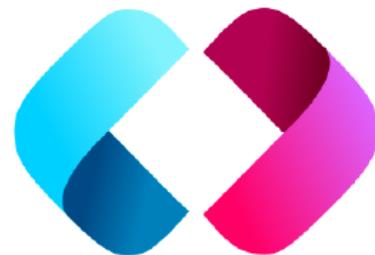


<https://github.com/txpipe> ^

GitHub

TxPipe

Open Source Blockchain Tools. TxPipe has 24 repositories available.  
Follow their code on GitHub.



<https://twitter.com/energiasocialco> ^

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The logo for Catalyst France, featuring a circular emblem above the text "Catalyst" and "FRANCE".

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1

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