Coxygen Global Project Close-Out Report :

Cardano Ecosystem : Smart Contract Languages Live Support (Oxygen), Documentation and Adoption

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1. Project Overview

Problem Statement

• **Tooling gap:** Cardano's development ecosystem lacks easy-to-use, reliable tools. Developers face scattered, bug-ridden code on GitHub and dense technical literature, making even basic examples hard to compile.
• **Productivity drain:** This confusion and repeated trial-and-error discourage newcomers and slow their output.

Existing Efforts & Shortfalls

• Programs like Plutus Pioneer, IOG working groups, and Gimbalabs offer guidance—but none provide true 24/7, one-on-one walk throughs for challenging technical tasks.
• Only the most naturally adept programmers thrive; many experienced imperative-language developers struggle to adapt.

Key Challenge

> Why would a seasoned Windows/imperative developer spend two years on Cardano training and still be unable to build a simple Haskell/Plutus/Marlowe CRUD demo?

It’s not a lack of interest in Haskell-style languages but a lack of “oxygen”—live, personalized technical coaching.

Support Response Issues

• When posting questions—whether about bugs, issues, or conceptual clarifications—responses often:

◦ Never arrive (no one knows the answer or takes time to reply)
◦ Arrive too late (48-hour delays kill momentum)
◦ Lack clarity (abstract, assumption-laden, and too brief on social platforms)

Proposed Solution: Live Support (Oxygen)

• A 24/7, one-on-one technical preparation and walk through service
• Real-time, context-rich guidance to dramatically shorten ramp-up time
• Incentivized experts dedicated to solving problems immediately

Successes

This close-out report presents the project KPIs, achievements, key learnings, findings, and next steps.

In a nutshell, the project was a success and has fostered a vibrant, growing developer community.

2. Project Manager and Timeline

(a) **Project Name:** Cardano Ecosystem : Smart Contract Languages Live Support (Oxygen), Documentation and Adoption
(b) **Project URL:** https://coxygen.co, https://github.com/wimsio/coxygen
(c) **Project Manager:** Bernard Sibanda
(d) **Project Start Date:** May 2024
(e) **Project Completion Date:** May 2025

3. Challenge KPIs & Project KPIs

The following are the project and challenge Key Performance Indicators:
(a) Feedback Reports Produced :

Min Target : 8, Produced: 11, Percentage: 138%
Max Target : 12, Produced: 11, Percentage: 92%

(b) Guided-Usage Videos Published

Min Target : 8, Produced: 15, Percentage: 186%
Max Target : 12, Produced: 15, Percentage: 125%

(c) Technical Docs Published

Min Target : 8, Produced: 11, Percentage: 138%
Max Target : 12, Produced: 11, Percentage: 92%

(d) Code-Test Packages Released

Min Target : 8, Produced: 10, Percentage: 110%
Max Target : 12, Produced: 10, Percentage: 92%

(e) User Help Documents Published

Min Target : 8, Produced: 11, Percentage: 138%
Max Target : 12, Produced: 11, Percentage: 92%

(f) Live-Support Sessions Recorded

Min Target : 60, Produced: 82, Percentage: 133%
Max Target : 120, Produced: 82, Percentage: 67%

Min Average : (138+186+138+110+138+133)/6 = (843/6) = 141%

Max Average : (92+125+92+92+92+67)/6 = (560/6) = 93%

(g) User Engagement Score

Average Rating : 4/5 : 80%

The information above does show that the project was a success: **93% Max Average and 80% Rating.**

4. Key Achievements

Key achievements of the project include:

- Establishing Coxygen Global as not only a community of young Cardano smart contract developers but also a global company operating across multiple countries, including South Africa, Nigeria, Ghana, and the DRC.
- Creating a positive sentiment around Cardano smart contract development among students and new developers in Haskell Plutus and Helios. The survey (https://github.com/wimsio/coxygen/blob/main/survey-results-coxygen-may-12-2025.md) provides evidence of this.
- Improving the Cardano developer experience, as indicated by these surveys:
  • https://github.com/wimsio/coxygen/blob/main/survey-results-coxygen-may-12-2025.md
  • https://github.com/wimsio/coxygen/blob/main/survey-Dec24-Feb25-videos.md
  • https://github.com/wimsio/coxygen/blob/main/survey-Oct%2010%20-%202024.md
  • https://github.com/wimsio/coxygen/blob/main/survey-milestone-3.md
  These surveys, completed by external Cardano community observers, offer positive feedback that validates the project's success.
- Developing and testing tools and templates on the Cardano pre-production network, including the Jimba front-end testing JavaScript library, Helios Coxylib functions for integrating static websites with the Cardano blockchain, Haskell Plutus demo source code, and testing scripts for Helios and Haskell Plutus.
- Producing open-source tutorial materials that extend existing resources like those from IOG; some materials have also been translated into French.
- Expanding the developer community to include French-speaking participants in the DRC.

5. Key Learnings

Several important lessons were learned during the project:
• **Documentation & Tutorials:** There is a critical need for clear, comprehensive documentation and tutorials.
• **User Engagement:** Active user involvement—through videos and feedback—significantly refined the system and enhanced the user experience.
• **Technical Documentation:** Accessible, well-structured technical documentation played a pivotal role in user adoption and smooth onboarding.
• **Iteration & Feedback:** Continuous feedback loops and iterative updates were crucial for improving product quality and user satisfaction.

6. Next Steps

The next steps for the project are:

- Increase focus on creating documentation and tutorials that help developers get started quickly.
- Address problematic areas in Haskell Plutus and Helios, such as generic compiler errors that frustrate new users by not indicating exactly what went wrong or how to fix it.
- Make the Live Support service available to all skill levels, filling the gap left by incomplete documentation and tutorials.
- Refine MVP projects and demonstration templates based on user feedback and technical performance metrics.
- Expand Helios and Coxylib integrations into industries such as finance, healthcare, AI, transport, social media, entertainment, mining, and manufacturing.
- Enhance platform scalability and performance.
- Optimize and add new features to the Helios library in future updates.
- Commercialize the premium service worldwide. 82% of Videos Evaluators said this can be commercialized.(**Section 5**: https://github.com/wimsio/coxygen/blob/main/survey-Dec24-Feb25-videos.md)
- Seek further funding for Marketing and Commercialization of **Cardano Technical Support & Live Service on Smart Contract Development.**

7. Final Thoughts/Comments

This Cardano Catalyst project has successfully achieved its goals in technical development, training delivery, and user engagement. The insights gained and lessons learned will guide future iterations and expansions, ensuring the platform's long-term sustainability and success. We look forward to further developments and increased adoption in new markets.

8. Links for Project Sources

Website : https://coxygen.co, https://github.com/wimsio/coxygen

1.Emails : admin@coxygen.co, cto@coxygen.co, cto@wims.io

2.Whatsapp Group : https://chat.whatsapp.com/I6y3xrRLMRfAIXQPb1IuU3

3.Telegram Group : https://t.me/+JOi40VWgvMg0MzBk

4.Twitter : https://t.co/UBdhCaT5An