



Coreum Labs: Building the next generation of applications

www.coreumlabs.org

January 29, 2025

Abstract

This white paper introduces **Coreum Labs**, a pioneering organization committed to expanding the reach of the Coreum Blockchain by developing software solutions that take advantage of its robust infrastructure. Coreum Labs bridges the gap between blockchain technology and real-world adoption by creating consumer-ready applications that foster ecosystem sustainability and growth.

This document explores the shortcomings of the current blockchain landscape, particularly the inefficiencies of grant-based models, which have often failed to deliver a solid and sustainable ecosystem. It highlights the need for a dedicated organization like Coreum Labs to build the right vectors to leverage blockchain infrastructure while providing intuitive, user-focused applications.

Founded by **Helwan Mandé**, former Network Expansion Lead at Coreum, Coreum Labs is uniquely positioned to address these challenges and drive the blockchain ecosystem forward with innovation, collaboration and sustainability at its core.

Contents

1	Introduction	3
1.1	Overview of Coreum Labs	3
1.2	Purpose of Coreum Labs	3
1.3	Significance in the (Coreum) Blockchain Ecosystem	3
2	Background and Market Analysis	3
2.1	Challenges in the Blockchain Space	3
2.2	Coreum Lab's Role in Addressing These Challenges	4
2.3	Market Potential and Growth	4
3	Project Overview	5
3.1	Vision of Coreum Labs	5
3.2	Mission of Coreum Labs	5
3.3	Core Values of Coreum Labs	5
4	Initial Set of Tools	5
4.1	Coreum Labs Dashboard	5
4.2	AI Agent	6
4.3	Coreum Labs Wallet	7
4.4	Coreum Labs Dev Tools	7

1. Introduction

1.1 Overview of Coreum Labs

Coreum Labs is a forward-thinking organization dedicated to advancing the Coreum blockchain ecosystem. Inspired by innovations in decentralized technology, we offer tools and platforms designed to empower developers and end users alike.

1.2 Purpose of Coreum Labs

The purpose of Coreum Labs is to bridge the gap between blockchain technology and its adoption by leveraging Coreum’s infrastructure and native features. Coreum Labs aims to ensure widespread adoption by creating user-friendly applications for end-users and powerful frameworks for developers. These frameworks are designed to minimize the learning curve for building on the Coreum blockchain, encouraging innovation and reducing barriers to entry. This suite of solutions includes, but is not limited to, an intuitive dashboards, a decentralized exchange (DEXs), AI-powered agents, and a dedicated wallet tailored to the Coreum ecosystem.

1.3 Significance in the (Coreum) Blockchain Ecosystem

Every blockchain ecosystem requires a dedicated champion capable of driving innovation and adoption by leveraging a deep understanding of its underlying infrastructure. Coreum Labs aims to fulfill this role by serving as a catalyst for the Coreum blockchain’s growth and usability. Through its ability to iterate quickly and efficiently, Coreum Labs bridges critical gaps in the ecosystem by building the essential applications and tools that are currently missing.

By focusing on both developer enablement and user accessibility, Coreum Labs empowers the Coreum ecosystem to thrive. It delivers intuitive, end-user applications that simplify complex blockchain processes and developer frameworks that minimize the learning curve for building on Coreum. This dual approach ensures that the Coreum blockchain not only becomes more accessible but also fosters an environment where innovation and adoption can flourish.

2. Background and Market Analysis

2.1 Challenges in the Blockchain Space

The blockchain space continues to face significant challenges, including usability barriers, fragmented tools, and a lack of developer-friendly ecosystems, all of which hinder widespread adoption. As often stated, *“It’s hard for a blockchain user to become a blockchain user.”*

In response to these challenges, many blockchain projects have implemented grant-based programs to support creators and companies building within their ecosystems. While this approach appears promising on paper, it often falls short in practice. Several downsides have emerged:

- **Technical Support Requirements:** Foundations frequently need to provide substantial technical support to grantee teams, many of whom lack prior experience with the Cosmos ecosystem or similar blockchain environments.
- **Grant Hunters:** Many participants in grant programs are more interested in obtaining funding than in delivering meaningful contributions to the ecosystem.
- **Misaligned Goals:** The objectives of grantees and the granting organization are often not aligned, leading to ineffective or incomplete solutions.

Grant programs, intended to bridge the gap between blockchain infrastructure and end-users by funding the development of decentralized applications, often fail to achieve the desired impact. A significant portion of deployed funding does not produce the expected outcomes, leaving ecosystems without the growth or adoption anticipated.

In response, some chains have begun exploring alternative approaches, such as **anti-grant programs** (e.g., Xion’s Anti-Grant Program), which emphasize different strategies to foster ecosystem growth.

On the contrary, one proven approach that consistently succeeds in nurturing thriving ecosystems involves the formation of dedicated companies by former ecosystem team members. These companies focus exclusively on building within the ecosystem, leveraging their deep expertise and alignment with the network’s goals. A notable example is **Consensys**, which has played a pivotal role in driving the growth of the Ethereum ecosystem.

Coreum Labs seeks to adopt this proven model, positioning itself as a dedicated organization that builds essential tools and applications to expand the Coreum blockchain’s adoption and usability.

2.2 Coreum Lab’s Role in Addressing These Challenges

With a deep understanding of the current landscape and a thorough analysis of the ecosystem’s state, Coreum Labs aims to develop a comprehensive set of tools designed to attract new users and significantly boost on-chain activity.

Coreum Labs focuses on delivering intuitive and user-friendly solutions, such as the **Coreum Labs Dashboard** and the **Coreum Labs Wallet**. These tools are tailored to address the usability barriers that hinder blockchain adoption while fostering a scalable and enduring ecosystem.

2.3 Market Potential and Growth

The blockchain market is projected to experience substantial growth in the coming years, driven by key trends such as the rise of decentralized finance (DeFi), non-fungible tokens (NFTs), cross-chain interactions, and a favorable regulatory and political environment. As blockchain technology continues to gain mainstream traction, the demand for scalable, user-friendly, and interoperable solutions will only intensify.

Coreum Labs is strategically positioned to harness this growth by leveraging Coreum’s robust infrastructure and native features. By developing intuitive tools and powerful

frameworks, Coreum Labs aims to bridge the gap between blockchain technology and its practical applications.

With the right set of tools, Coreum has the potential to become one of the leading blockchains, serving as the go-to solution for tokenization and the management of real-world assets (RWA). By fostering innovation and creating a scalable ecosystem, Coreum Labs strives to ensure that the Coreum blockchain becomes a key player in the next wave of blockchain adoption.

3. Project Overview

3.1 Vision of Coreum Labs

Coreum Labs envisions becoming the foremost enabler of innovation and global adoption for the Coreum blockchain. With a commitment to fostering growth and usability, Coreum Labs strives to position Coreum as the blockchain of choice for tokenization, real-world asset management (RWA), and seamless decentralized interactions.

3.2 Mission of Coreum Labs

To empower developers and end-users by providing cutting-edge tools and fostering seamless interactions within the blockchain ecosystem.

3.3 Core Values of Coreum Labs

Transparency, Innovation, Collaboration, and User-Centricity.

4. Initial Set of Tools

Coreum Labs acknowledges the existence of a significant gap within the current blockchain landscape. Although the underlying Coreum blockchain infrastructure offers powerful capabilities, there are very few decentralized applications that effectively leverage its full potential. This gap limits the adoption and usability of the network, creating the need for dedicated tools and solutions that unlock its value.

To address this, Coreum Labs is committed to developing an initial suite of tools aimed at bridging this gap. These tools will empower both developers and end users, showcasing the true power of Coreum's infrastructure and encouraging broader adoption within the ecosystem.

4.1 Coreum Labs Dashboard

The Coreum Labs Dashboard is a comprehensive and versatile application designed to simplify and enhance the management of blockchain activities. Serving as the primary entry point for both new and experienced users, it offers an intuitive and user-friendly interface for seamless engagement with the Coreum ecosystem.

Key features include:

- **Encrypted Messaging:** Enable secure communication using asymmetric cryptography, leveraging the user’s wallet for encryption and decryption.
- **Validator Management:** Easily delegate tokens, monitor validator performance, and manage staking operations efficiently from a unified interface.
- **Smart Token Management:** Create, manage, and utilize Coreum Smart Tokens, unlocking advanced functionality unique to the Coreum ecosystem.
- **Bridge:** Provide detailed metrics on bridge usage, including live transaction previews and seamless support for bridging assets to the XRPL using Coreum’s native bridge. Enable efficient asset transfers across IBC-compatible chains through a streamlined and user-friendly interface.
- **AI Agent:** Automate blockchain-related tasks such as querying data, creating tokens, and executing trades (See AI Agent section)
- **Token Trading:** Interact with decentralized exchanges (DEXs), including Coreum’s native DEX, to trade tokens and access real-time market data for informed decision-making.
- **Profile Management:** Create and customize user profiles with options to add names, avatars, bios, and social links. Access wallet balances, transaction histories, and other essential account details directly from the dashboard.
- **AI-powered Analytics:** Leverage advanced artificial intelligence to analyze on-chain data and provide actionable insights.

The Coreum Labs Dashboard is designed to be highly modular, ensuring it can seamlessly integrate new features as they become available. This adaptability guarantees that the dashboard evolves alongside the Coreum ecosystem, meeting the growing demands of users and developers alike.

4.2 AI Agent

At Coreum Labs, we strongly believe that artificial intelligence (AI) will serve as a powerful catalyst for blockchain adoption, transforming how users and developers engage with the ecosystem. Unlike traditional marketing strategies reliant on key opinion leaders (KOLs) who demand exorbitant fees to promote ecosystems they have no genuine connection to, Coreum Labs adopts a community-driven and technology-first approach.

Leveraging the open-source power of **Eliza OS** (<https://github.com/elizaOS/eliza>), the Coreum Labs AI Agent will act as an intelligent assistant with its own social presence. It will guide users through their journey of exploring and adopting the Coreum ecosystem, fostering organic growth and engagement. Key features of the Coreum Labs AI Agent include:

- **Smart Token Management:** Enable users to create, manage, and utilize Coreum Smart Tokens seamlessly with AI-powered assistance.
- **Token Trading:** Simplify the token trading process by providing recommendations, insights, and automated execution of trades.

- **Community Engagement:** Actively promote initiatives originating from community members, helping to amplify grassroots efforts and foster collaboration within the Coreum ecosystem.

The AI Agent represents Coreum Labs’ commitment to innovation and inclusivity, ensuring that every user, regardless of their technical background, can access the tools and knowledge necessary to thrive in the Coreum blockchain ecosystem.

4.3 Coreum Labs Wallet

Wallets are among the most powerful tools in the blockchain ecosystem, often serving as the primary—and sometimes only—entry point for users to interact with a blockchain network. They are particularly well-suited for development as mobile applications, offering unparalleled convenience and accessibility for a global user base.

Recognizing this, Coreum Labs envisions a dedicated wallet tailored specifically to the Coreum ecosystem. This wallet will not only enable users to seamlessly interact with all aspects of the Coreum blockchain but also serve as an application store where all Coreum dApps can be accessed in one place.

Inspired by successful wallet implementations such as the **Xumm Wallet** for XRPL (<https://xumm.app/>), the Coreum Labs Wallet aims to deliver a similar level of seamless user experience while fully leveraging Coreum’s unique features and capabilities. It is designed to be the cornerstone of user engagement, simplifying blockchain interactions and empowering users—both new and experienced—to fully harness the potential of the Coreum ecosystem without needing to exit the application.

4.4 Coreum Labs Dev Tools

Coreum Labs is committed to empowering developers by providing a comprehensive set of tools designed to simplify and accelerate the process of building smart contracts and decentralized applications (dApps) on the Coreum network. These tools aim to minimize development complexity, reduce the learning curve, and unlock the full potential of Coreum’s robust infrastructure.