

Enhancing Organizational Decision-Making: Leveraging AI-Integrated DAOs on the Antelope Blockchain

Version: 0.1

Last Updated Date: 2.20.2024

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Abstract

This Living Bluepaper proposes a novel blockchain-based ecosystem designed to mitigate voting apathy in organizations by leveraging AI-driven decision-making within a DAO structure. This focuses on the what and how, in a very general light. There are many holes and problems to solve.

Contribute

This is just a beginning, hence a Living Bluepaper. We anticipate this will take additional skills of diversely-minded contributors to evolve.

If you are interested in contributing and extending this current version please request edit access found at the [\[LINK\]](#). Or we encourage you to steal it! It's CC0!

All significant, accepted contributors by 3/31/24 will be added to a WAX-based MSIG group to begin development.

Thanks for checking this out!
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Summary

Utilizing the Antelope (formerly EOSIO) blockchain's efficiency and the innovative use of smart contracts from Alien Worlds, the system introduces three types of tokens (Power, Voting, and Vesting) and AI model selection for automated or semi-automated governance participation.

Introduction

In today's organizations, engaging stakeholders in governance through voting often faces the twin challenges of apathy and low participation, undermining decision-making processes and effectiveness. Traditional methods fall short in addressing these issues, necessitating a paradigm shift towards more engaging, efficient, and transparent systems.

Enter the convergence of blockchain and artificial intelligence (AI) technologies, offering a revolutionary approach to invigorate organizational decision-making. This Living Blueprint introduces a novel ecosystem built on the Antelope blockchain, integrating AI-driven DAOs to automate and enhance voting processes. By leveraging the latest in blockchain efficiency, smart contract capabilities, and AI model personalization, our system aims to counteract voting apathy, increase stakeholder engagement, and streamline governance operations. Through a combination of Power, Voting, and Vesting tokens, along with user-selected AI models for governance, we propose a future where organizational decision-making is not only more participatory but also more aligned with the collective intelligence and values of its stakeholders.

The Need for AI-Integrated DAOs

The integration of AI into DAOs addresses critical issues in organizational governance: voting apathy and low participation. By employing AI models to represent stakeholder preferences, organizations can ensure continuous engagement without requiring constant manual input. This approach not only streamlines the decision-making process but also personalizes participation, allowing stakeholders to contribute meaningfully even in their absence. AI-integrated DAOs offer a solution that increases efficiency, inclusivity, and

effectiveness in governance, leveraging technology to enhance democratic processes and ensure decisions reflect the collective intelligence and values of the community.

System Overview

Integrating AI with DAOs on the Antelope blockchain, utilizing three distinct tokens, offers a transformative approach to organizational governance.

Power Tokens are essential for transactional purposes within the DAO, including deploying, submitting, interacting with AI models. Voting Tokens enable stakeholders to decide on which AI models to implement then prioritize for development based on their governance votes. Vesting tokens, accruing value over time, incentivize contributions to AI model development and improvement, rewarding long-term engagement and investment in the DAO's AI capabilities. This structured token approach ensures a balanced ecosystem where operations, decision-making, and contributions towards AI model development are all incentivized, supporting the DAO's growth and innovation.

Power Tokens (DAOaiX) - Power system operations, facilitating seamless transactions and ecosystem interactions. They ensure the ecosystem's functionality, accessibility, and scalability, providing the backbone for operational integrity and efficiency.

Voting Tokens (DAOaiY) - Staking these tokens enable stakeholder governance participation, directly linking stakeholder influence to DAO decision-making. This encourages active involvement by allowing stakeholders to voice their preferences on organizational directions, policy changes, and other critical decisions.

Vesting Tokens (DAOaiZ) - Designed to deepen stakeholder engagement over time, vesting tokens reward long-term commitment. Their maturation process incentivizes continued participation and investment in the ecosystem, aligning stakeholder interests with the organization's long-term success.

The ecosystem's design, with its three distinct tokens, caters to diverse user types by aligning their values with the DAO's operational and governance framework. Power tokens facilitate everyday interactions and access to AI models, ensuring broad utility. Voting tokens empower users with governance rights, aligning the DAO's direction with the collective preference of its community. Vesting tokens reward long-term commitment, aligning the interests of dedicated contributors with the DAO's sustained growth and

evolution. This multi-token approach ensures a balanced, inclusive ecosystem where various user contributions and community engagements are recognized and valued.

Technology Stack

The technology stack combines Antelope blockchain's smart contracts and AI models, integrating Alien Worlds' governance mechanisms. It utilizes Antelope's cross-chain features for broader interoperability and AI for dynamic, user-driven governance, ensuring a responsive, scalable system. Best practices in AI ensure models are effectively trained and updated, enhancing user engagement and decision-making in the DAO.

Implementation

The primary implementation is leveraging Antelope blockchain's capabilities for efficient token management and secure interactions. Smart contracts automate token issuance and stakeholder voting, incorporating AI models to guide governance decisions. These contracts draw on Alien Worlds' frameworks, ensuring a robust and adaptable DAO structure.

Stakeholders interact with the system through a user-friendly interface, selecting AI models for voting, contributing to the DAO's direction while ensuring a transparent and secure ecosystem.

User Interface (UI) Example Components

Mock-ups of the platform interface showing how users interact with the system, select AI models, participate in DAO voting, and view contributions and rewards. Reserved for v0.2.

Key Elements

Component	Description	User Actions
Token Balance Overview	Displays current platform token balances and transaction history.	View balance, View transaction history
AI Model Selection for User Voting	Enables users to select their own AI model for personal voting preferences in governance decisions.	Select personal AI model for voting Vote on models Pay to use models
Voting Dashboard	Shows ongoing votes, past results, and enables users to participate in new votes.	Vote on Proposals, View voting outcomes
Vesting Tokens Management	Manages vesting schedules and displays accrued tokens over time, enhancing long-term engagement.	View vesting schedule, Claim vested tokens

Case Study

Hypothetical example of an organization adopting the system, detailing the setup process, stakeholder engagement, AI model selection, and governance outcomes.

Conclusion

Summary of the system's potential to revolutionize organizational decision-making by reducing apathy and enhancing participation through AI and blockchain technology.

Resources

[Antelope on github](#)

[Alien Worlds DAO Docs](#)

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