Idavoll WhitePaper
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Abstract

Idavoll is a Decentralized Autonomous Organization (DAO) management service provider that unpacks necessary infrastructure and services, to enable better project/user communication and management, that includes DAO creation and management toolbox, court, investment concurrent resolution and social discussion panel.

This paper introduces Idavoll's DAO network structure, DAO functionalities, tokenomics and future development plans.

Introduction

A Decentralized Autonomous Organization (DAO) is a group organized around a task that is coordinated through a set of shared rules implemented on the blockchain.

Compared with traditional enterprise projects, one of the greatest advantages of DAO is greater transparency, because anyone can see all actions and funds in DAO, which greatly reduces the risk of corruption and censorship. Listed companies must provide independently audited financial statements, but shareholders cannot understand the company's financial status anytime and anywhere. In contrast, since the DAO's balance sheet exists on the public blockchain, one can understand what happened to each transaction at any time, because the DAO has always been completely transparent, thus ensuring openness, fairness and justice for all DAO members.

With the rapid advancement of encryption technology, DAO has also developed rapidly, and DAO has become more and more indispensable, taking on more and more important tasks. With the increase in the number of DAO members, investment strategy, blockchain types and operational complexity, there is an increasing need for delegation and decision of responsibilities to better manage a group's organization.

Thus a DAO management service provider powered by Idavoll is created, that enables:

- Infrastructure and services to create a DAO
- Cross-chain integration
- Muti-asset class investment
- Social discussion within private/public organizations

- Autonomous & democratic investment decision making

Service Guidelines and Principles

As a DAO management service provider, the accessibility and usability is key to a smooth organizational management experience, entertaining social engagement, as well as various investment strategies, thus, a series of basic building templates are build and provided for users to flexibly and freely create and customize their organizations, such as:

- Organization space creation with smart contract
- Organization space management
- Vault creation with smart contract
- Social discussion panel
- Vote delegation and vote quorum
- Investment enter and exit timeframes
- Investment stop-loss and take-profit strategies

and many more.

Idavoll envisions the service provided will define a reasonable structure for what a DAO could be and should be, and continues to evolve and ultimately benefit the investors and technology development. That is, with a set of principles:

- A DAO exists in the world as an entity in perpetuity.
- A DAO will always exist unless it decides to terminate.
- A DAO can update most of the basic components by itself, while still being regarded as the same entity.
- A DAO holds members' contributions, which is in principle in the form of digital assets.
- A DAO can operate the external world or itself, and its execution is realized using smart contracts on the chain.
- In addition to pre-defined behavioral rules for a DAO, external events can also trigger specific DAO operations.

The minimal definition of a DAO should be: an organization can renew itself and maintain its identity forever. Therefore, the essence of all services provided comes down to "Communication" and "Voting", for any voice is essential.

DAO

Participants

Idavoll DAO functions and services are developed based on the categorized personas of crypto activists, so that more apt and customized experience could be provided once they were understood better. They are: Creator, Investor, Explorer and Judicators. These personas does not represent actual governing manners within the DAO, as anyone are free to carry out any activities within their set of principles, these personas simply acts as a guidance for the well-being of the community.

Creator

Creator generally represents official team members of a project/company (crypto or non-crypto) , or a stakeholder that values a project's growth and wellbeing. Individuals fit these roles could create official project spaces and setup fundamental managing principles of the DAO such as "entry asset requirement", "vote delegation", "vote quorum", "vault access quorum", and many more that are open to the community. At the same time, a creator could propose sales, crowdfunding, or any financial activities to present to the community and awaits approval. Project development updates are also key for a well informed community environment, an essential role for project creator to take upon.

Investor

Investors must have a stake in a project/company, thus the drive and enthusiasm to maintain the well-being of the community, as well as governing the work and honesty of the project is above anyone else. Therefore, Idavoll DAO provides the perfect building blocks for them to actively practice governance, as their underlying asset becomes actual shares in the community vault.

Explorer

The crypto market is changing rapidly, and it is increasingly difficult for any individual or institution to keep up with the rapid and systematic changes in crypto assets.

In addition, crypto investment requires multi-disciplinary knowledge. It requires expertise in the fields of economics, finance, engineering and network marketing. It also requires skills such as the ability to find projects on a global scale, which naturally requires a deep understanding of how culture plays a role in shaping the global encryption landscape.

The explorer are all above, if not more, constantly keen to discover new opportunities and are not shy from sharing with the community. Idavoll's social panel is what differs from other DAO platforms, as it provides the infrastructure to awards those who gives, punishes those who spams, and turn unavoidable confrontation and opposition in to fruitful growth and progress.

Judicator

A place with no voices but harmony is no place to be, yet some harmful voices and actions that are repelled by the community could be flagged, and that's where the judicator comes in, as a problem solver. To ensure fairness and willingness to take upon this role, judicators are required to hold and awarded IDV to become one.

Investment

One of the underlying urges for most crypto enthusiast is to earn, yet trading safely has always been a private thing, no matter where their trading decision are coming from, one has to execute on one's own. There hasn't been many "crypto asset manager" in the space as it is farfetched to trust the honesty of the person on the other side of a wallet address. However, with Idavoll DAO, not only the decision and share are distributed collectively, the "buy & sell" execution are done with smart-contract with a wide range variety of trading classes. Preventing human intervention to ensure the elimination of fraud at its very core.

NFT

As NFTs are gaining momentum in popularity, some price are getting exceedingly difficult for many users to even grasp, as it is non-fungible. However, with a DAO community equipped with a shared vault that one could trust, many could share a piece of that NFT of their liking, and make the buying & selling call jointly with smart-contract.

Liquidity Mining

DeFi provided a safe heaven for those who seeks more money making means and security than centralized exchanges, but it also requires vast hours of study and audit for a community to dedicate into a protocol. In Idavoll DAO, a group of world class experts in DeFi identifies the most promising DeFi projects and enables their community members to

enjoy the returns of their liquidity mining programs. As a result, the platform will help to reduce information asymmetry and optimize asset allocations for the DeFi space overall.

Margin

In the highly volatile crypto-currency markets, traders with a significant appetite for risk can find exorbitant leverage multiples on unregulated exchanges, multiplying the buying power of their capital with up to excessive amounts. As regulation tightens, it is expected the usage of decentralized margin trading to grow exponentially. Idavoll DAO enables shared market insight through social panels within the DAO community, as well as autonomous trade executions with smart contract to eradicate human error, and will support DYDX, DDEX, and more.

Options

Among all derivatives, decentralized options are gaining more attention for a safe and manipulation free tool for both speculation and hedging purposes, with Wall Street mainstream stepping in since the beginning of 2021, the variants and combinations of options would be fully exploited by professionals, which will make options market more interesting and diversified. Idavoll DAO will provide the infrastructure for DAO decision based autonomous trading with smart contract support with major decentralized option trading platform such as Hegic, Opium and Opyn.

Space Creation

Templates

To enable the best plug-n-play user experience, in the spirit of "DAO for all", Idavoll is constantly updating a variety of template selections, for parameters during space creation, vault shares and voting.

Component templates are linked together using a permitted structure to form a complete, secure and controllable DAO, that is, the DAO only allows the permitted addresses and modules (module addresses) to perform specific operations of the DAO. For example, a module with voting rights will perform a forwarding operation after successfully approved voting. By linking the basic modules together, some complex standards can be defined, which will limit the behavioral operations within the DAO. For example, a DAO wants to allow the transfer of funds within the DAO, but the premise is the following conditions:

- Proposed by members of the DAO.
- Approval by the majority of members.
- Meet the predetermined budget.
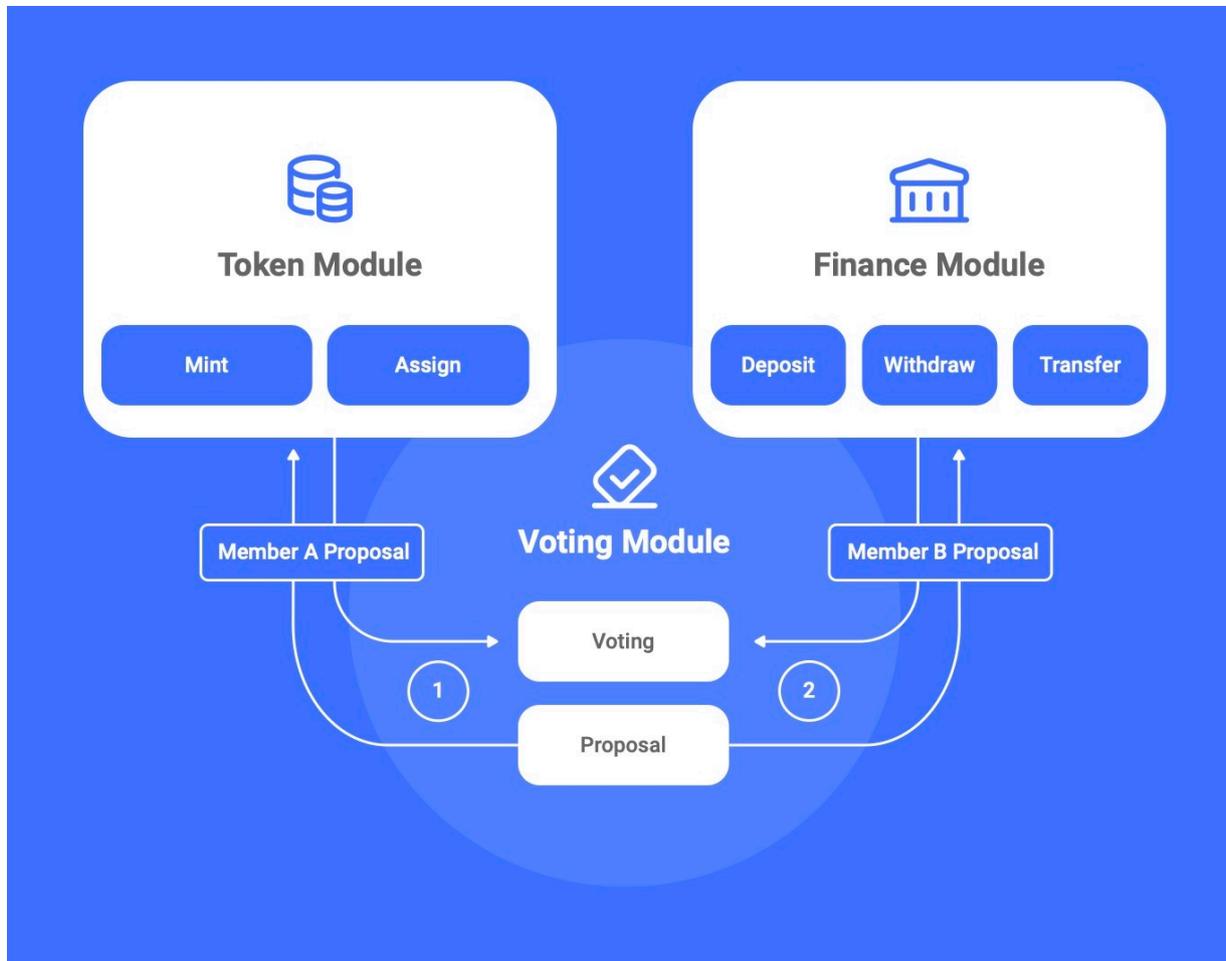
This can be achieved by configuring permission chains, each link imposes logical constraints on the
final operation.

- **Organization module:** used to manage the organization's membership and permissions and other functions, divide the organizational structure, such as different permissions for nodes, users, developers, etc. Users can also set up super administrators as needed.
- **Voting module:** Manage the proposal and voting decision-making process of the members of the organization, define different proposal voting requirements, set different passing ratios and negative requirements for the level of the proposal.

- **Token module:** manages the representation and transfer of ownership of organization members, and the additional issuance and redistribution of tokens will also be implemented by voting in accordance with a complete governance process.
- **Finance module:** manage the organization's assets and asset transfer actions.

Basic info

During space creation, basic information is required of the DAO is required, for better identification and management, such as "Name", "Description", "Logo", and "Banner".

Should a space creator wish to grant their DAO an "Official" title, such request could be raised to the court and present further evidence for the judicators to verify.

List of members

An "Initial Member List" is required during space creation, further list of members, addresses and their shares of the vault is automatically amended when members join, exit or expelled.

Management rules

Furthermore, it is required to setup proposal initiation rules (determined by shares), proposal passing rules (over x% to win), proposal rejection rules (over y% to reject), vault share unlocking rules (over z% to unlock), and"Vote Quorum".

Vote Delegation

If one wishes to vote on proposals directly, one could delegate their vote to their own address. Or, one could delegate their voting power to another community member and let them to vote on his/her behalf.

Vault creation

The creator is required to fill in the type of tokens supported by fixed assets in the vault, and setup the penalties of "Expelled" and "Ragequit".

Proposal

Proposals are what gives meanings to a DAO, by giving everyone a voice within the community, from Add/remove members to distribute funds, and even interact with other applications and communities.

Idavoll DAO support following standard proposal types for everyday governance:

- **Join:** Advocating asset and demanding new shares to join the DAO
- **Crowdfund:** Token sales or requesting funds from the DAO to work on internal projects and improvements
- **Token:** Request to add support for a new ERC20 token
- **Invest:** Request the DAO to swap one asset for another with supported platforms with smart contract
- **Expel:** Request to forcibly remove a malicious member through a vote -

Proposal templates are custom lists for one to sort their most relevant edits together, minimizing the workflow for a DAO member during day-to-day governance. More specifically, Proposal templates enable DAOs to:

- **Group proposals together in a list** to streamline for a specific persona (e.g. "Membership") or use case (e.g. "DeFi/NFTs").
- **Edit proposal titles and description** to optimize the sorting habit.

Voting

To know when exactly voting period could commence, one must understand the stages of a proposal, as follows:

- **Submission:** After completing all basic informations and parameter setup, a DAO creator and its members could submit proposal within.
- **Sponsor:** Members could choose to add bonus award to their proposal that is shared once passed.
- **Voting:** After a Proposal is correctly setup, members can now vote on the proposal by entering DAO space and selects the proposal currently in progress, every proposal has an pre-determined amount of time in the voting period where it must receive more Yes

than No votes to pass. A temporary asset lock-up is initiated to ensure the well-being of voters, which will be relieved at the end of the vote.

- **Dispute:** Voting is over, and the Proposal is set to pass or fail depending on the votes cast during Voting. Members who voted No, and have no other pending Yes votes, can ragequit during this period. If during this period, the minority voters believe that the submitted proposal violates the terms of the proposed agreement, they can choose to dispute, by depositing an equal amount of collateral, as well as the initial dispute fee determined by the court. They can also provide evidence to support their position.

- **Stamp:** When all in order, the proposal is sent to Processing in which the vote is time stamped on-chain.

- **Completed:** After being processed, the proposal is marked as Completed, and all shares, funds or outcomes are executed as specified in the proposal.

Court

Proposal agreement disputes rely on the decentralized oracle agreement, which is called the court, and the court members own the IDV of Idavoll Network's own chain assets to win the right to perform dispute resolution services and receive a portion of the dispute resolution fee.

In the event of a dispute, judicators are selected through the weighted classification of equity to form a court. The judicators must rule on the dispute during the commitment period, and then disclose their verdict after all the judicators have made their commitments. The verdict was based on a drafted majority decision of the court.

Before the sentence is enforced, there is an opportunity to appeal, which will repeat the trial process with a larger number of judicators. A fixed number of appeals can be made before the final judgment round in which all the judicators involved are required to make a verdict.

The judicators needs to obtain the IDV and deposit it in the mortgage contract of the court to obtain the qualification of a judicator. Once the prospective judicator participates in the pledge of obtaining the qualification of the judicator, the prospective judicator is considered to be active and must commit to the specified period to arbitrate the dispute within. Once the court is formed, the dispute enters the deliberation stage. The judicators need to make a verdict in favor of one party. The complete verdict is divided into two stages, the "commitment period": the hash value of the verdict submitted by the judicator; "Disclosure period": The judicators will announce their voting results. Judicators who announce their votes before the "disclosure period" or fail to announce their votes after the "disclosure period" will be punished.

If there is a preliminary ruling, and no party appeals, only one appeals, or the maximum number of appeals is reached, a final ruling is reached. After making the final ruling, the court needs to deal with the reallocation of collateral.

Vault

Parameters of vault is set during vault creation with smart contract, as follows:

- List of allowed tokens
- Asset withdraw
- Access
- Circulating asset
  - NFT
  - Fungible token

The members of the DAO can effectively restrict the asset transfer process in the organization. The transfer process is approved by a majority vote, but for a small number of stakeholders, the majority of stakeholders may decide to liquidate the organization and make a small number of stakeholders related In order to avoid this hostile liquidation situation, the organization needs a mechanism to impose constraints, which can be implemented by any individual in the organization instead of the actions of most participants.

To enable a sustainable circulation, a fixed cost is set for vault transactions, where 0.25% is allocated to the judicators, and 0.05% used to buyback IDV token.

Social

Panel

Every DAO could setup their own social discussion panel, where ideas and investment insights could be shared for more efficient voting and more mature investment decision making. Templates are provided to the members to decide the way to showcase and filter most relevant information, addition customization options are also provided to group and divide section within the panel: ie "Questions", "Pinned", "Defi", "NFT", and "Airdrop" etc.

Polling & Competition

Additional to voting to process proposals, polling is very important to understand the sentiment of the community, and the market. The social section has the option to create polling, and add bonus awards, or even setup a competition where the majority takes all.

Tokenomics

Basic Info

Idavoll DAO is build to enlarge the decentralized community, a trust-less passage for every corner of the world.

Idavoll token (IDV), is dedicated for DAO management, an innovation that enables better motivation for individuals to maintain liquidity and resolve oppositions in governance.
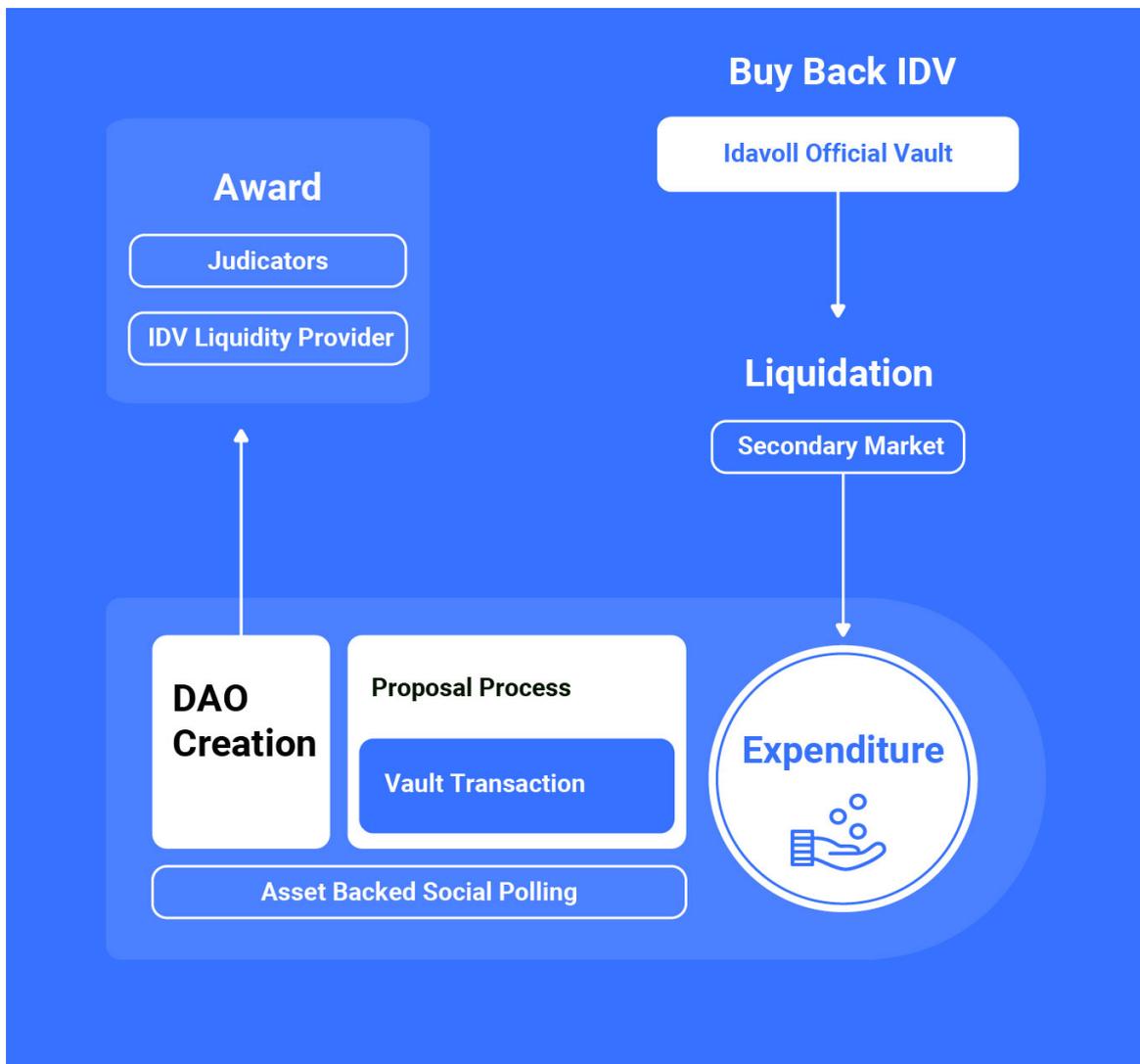
Applications

Idavoll token (IDV) is the native token for the DAO management platform, required by general DAO members to maintain general activities, circulated towards judicators and IDV liquidity providers as awards for network and ecosystem maintenance respectively.

IDV can be earned, loaned, held, transferred, or transacted by users peer-to-peer.

IDV token holders will be able to use their token in an evolving number of ways:

1. Discount of Vault Transaction fees

No of IDV	Trasnaction Fee
<500	0.3%
≥500	0.25%
≥1000	0.2%
≥1500	0.15%
≥2000	0.1%

2. Medium of exchange

3. Provide Liquidity to earn

4. Governance Voting

5. Social panel bonus

IDV Token Metrics and Token Valuation

Token Economics	Percentage	No. of IDV	Locked	
Total Supply	100%	2,000,000,000	50%	
Miner Incentive	25%	500,000,000	0%	
Private Sale	25%	500,000,000	0%	*1
Founding Team	15%	300,000,000	100%	*2
Foundation Reserve	15%	300,000,000	100%	*3
Ecosystem Incentive	20%	400,000,000	100%	*3

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*1	Private quite lock-up in 2020 Q3
*2	Linearly unlocked quarterly within three years after mainnet launch at 2021 Q3
*3	Linearly unlocked quarterly within two years at 2021 Q1

Future Development

As a DAO governance platform, Idavoll Network will introduce more governance modules in the future to meet the individual needs of more organizations, making Idavoll Network a governance platform that carries various DAOs.

Cross-Chain

Idavoll Network has already adapted Polkadot parachain based on the substrate2.0 development framework. In terms of function, the Idavoll Network is compatible with the account, balance, babe, grandpa, staking and other pallets of the substrate, and shares and ensures the high performance, stability and security of the Idavoll Network. At the same time, the Idavoll Network provides the basic pallet of DAO and provides various foundations. The flexible composition template of pallet to build professional DAO organizations with different attributes. The Idavoll Network also combines the functions of substrate's off-chain worker to provide off-chain data integration, combining off-chain data with on-chain rules to complete the governance process.
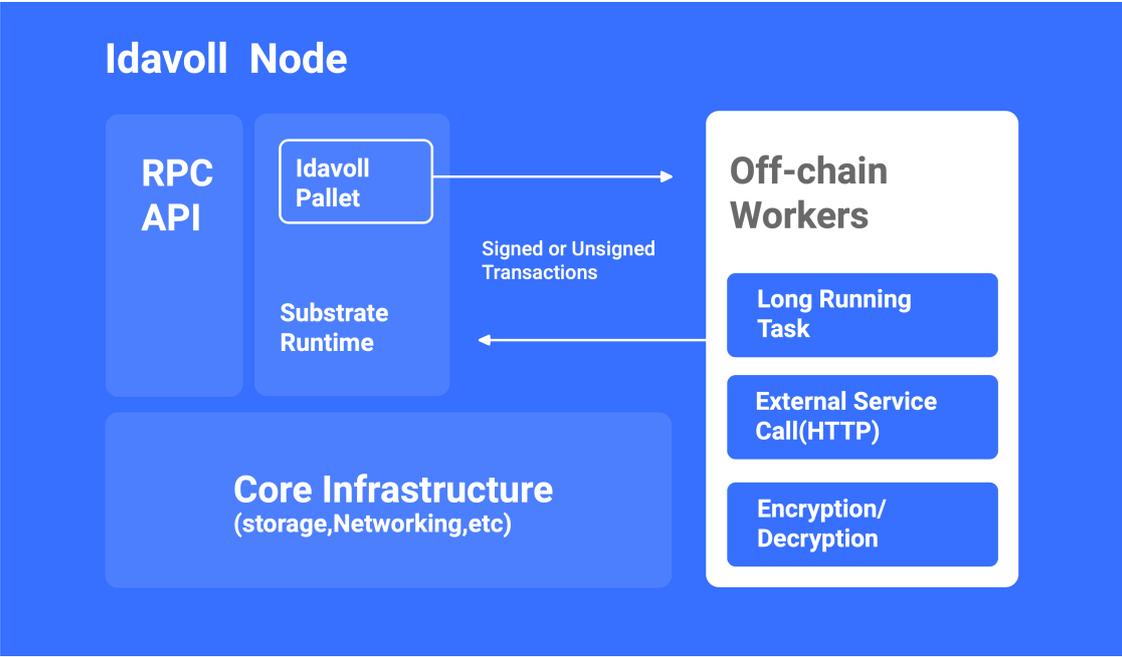
Further cross-chain applications will be developed in Q2 2022, to enable more investment and exchange opportunities, thus enriching the ecosystem of Idavoll DAO, with bridges enabled by smart contracts, with the vault contract on the native chain is where the tokenized collateral is stored, each time an transaction happen. A token contract on the host chain is responsible to mint/burn IDV according to the amount of assets stored as collateral.