

IZE litepaper

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Published by Galvan DGF (Distributed Governance Framework), a decentralized community of node owners providing governance and support for the **IZE** Blockchain and token distribution.

table of contents

What is the DGF?	1
Blockchain for Health	2
The IZE Blockchain	3
IZE Token	4
Nodes	6
Proof of Action	7
Governance	9
Join Us	13
References	14

what is the dgf?

Galvan DGF (Distributed Governance Framework) is a decentralized community of node owners providing governance and network support for the IZE Blockchain and token.

Galvan DGF is distinct from and not solely controlled by Galvan DAO LLC, a 3rd-party building decentralized applications (dApps) on the IZE Blockchain.

Any value derived from Galvan nodes and **IZE** tokens is likely to be uncorrelated with the success or failure of Galvan DAO LLC.

DGF MISSION

Provide a decentralized network for health, fitness, and wellness improving trust, transparency, and outcomes for both organizations and individuals.

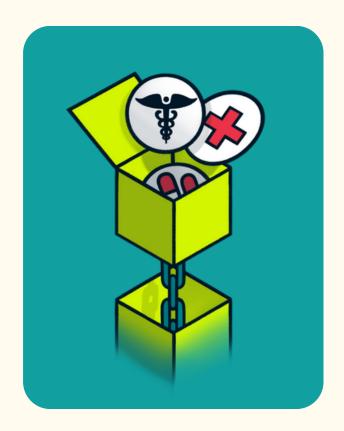
health companies (Including Galvan DAO LLC)

IZE Blockchain





galvan dgf



blockchain for health

Blockchain technology for health is often cited as a top use case.¹ However, it is yet to even scratch the surface of its potential impact on the world.

Galvan DGF aims to be the world leader in a decentralized-first approach to blockchain for health, focused on solving the following problems:

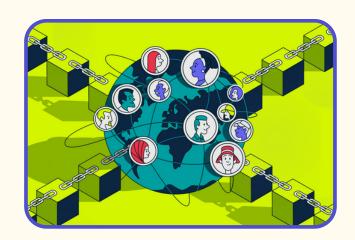
- **Centralization** Centralized health systems require a single entity to coordinate everything, despite unique individualized needs, circumstances, and values requiring precision. By creating a worldwide, decentralized blockchain network, Galvan DGF will establish the infrastructure for global healthcare transactions.
- **No Ownership** Individuals do not own and control their health information, which has resulted in data breaches of centralized health records, costing billions annually.
- Lack of Transparency Inadequate transparency exists for patient decision-making, including challenges with communicating and understanding the risks/benefits of health decisions. The IZE Blockchain will support tools that empower individuals with unbiased information so they can make more informed health decisions.
- **Poor Incentives** Current policies focus on incentives to systems, payers, and health providers, but not to individuals. The IZE Blockchain will incentivize healthy behaviors through rewards and other proven strategies that improve outcomes.

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the IZE Blockchain

The IZE Blockchain is an EVM-equivalent layer-1 blockchain that uses the proof of authority consensus mechanism. It is not controlled by any one person or entity, but rather, governed by node owners from the Galvan DGF according to charter votes.

Galvan DGF invites health, fitness, and wellness organizations from around the globe to build decentralized applications on the IZE Blockchain that improve trust, transparency, and outcomes for their customers.









Galvan Ledger

The Galvan ledger is an immutable database that enables the Proof of Action algorithm for **IZE** distribution. The accounting on this ledger is verified by licensed nodes and added to the IZE Blockchain.

Ethereum Bridge

IZE tokens, which are first distributed natively to node owners on the IZE Blockchain, can be transferred to Ethereum through a decentralized bridge, not controlled by Galvan, to become IZE ERC-20 tokens.

*Based on average gas fees and IZE price according to CoinMarketCap on June 15th, 2023.



IZE token

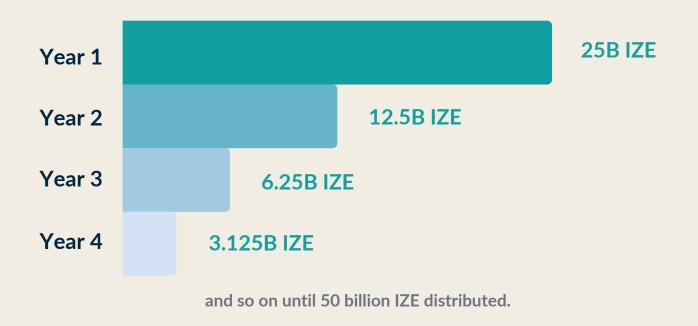
Galvan nodes facilitate the distribution of **IZE**, the native token of the IZE Blockchain.

IZE rewards node operators for their active involvement to secure the IZE Blockchain and provide consensus about transaction validation and off-chain data.



IZE has a maximum supply of 50,000,000,000 tokens, half of which were distributed to node owners through the IZE Blockchain in the first year. Each year thereafter, the amount of IZE issued is half of the previous year's allocation.

The official start date of year-one points accrual was Feb. 17th, 2022 at 00:00 UTC, serving as the date for future halvings. Subject to a different decision from the Galvan DGF





nodes

Two basic types of nodes secure the blockchain. Validator nodes are central to the Proof of Authority consensus protocol underpinning the blockchain. They hold and update the on-chain ledger of the digital assets and data stored on the blockchain. When transactions occur or data is confirmed to the blockchain, the validator nodes update the immutable blockchain ledger that they control. Meanwhile, oracle nodes are responsible for reporting data to the blockchain. Oracle nodes "see" actions occur both on and off chain, they confirm that the actions occurred and are recorded on the blockchain. This on chain confirmation work is then rewarded with digital rewards.

Smart Node

- Run on compatible computer
- 100,000 max supply
- 25,000 points for 6 hour uptime
- 1 DGF vote
- Provides consensus to the IZE blockchain
- Brings off-chain data from the Galvan ledger onto the IZE chain

Node ("Lite")

- Run on compatible computer
- 25,000,000 max supply
- 100 points for 6 hour uptime in a day
- 0.004 DGF vote
- Provides consensus to the IZE blockchain

Galvan+ Node

- Run on compatible phone
- Confirms healthy actions in the Galvan+ App
- Points vary based on action
- Included in Galvan+ subscription



proof of action

Proof of action is the engine for the blockchain: it is a calibrated incentive structure that is carefully defined by the DGF to reward specific actions that the DGF community believes will create value. But it is important to remember proof of action is tied to the blockchain. All digital rewards are earned for securing the blockchain and confirming information from oracle nodes on chain. While some may informally talk about rewarding off chain actions, technically rewards are only earned for on chain work (including confirming off chain actions onto the blockchain)

*Getting a node license and operating a node is required to participate in the proof of action protocol—otherwise an individual's points would not be able to be confirmed to onchain tokens.



Example:

Let's say these were your actions for the day...

- + 25,000 points (1 Smart Node active)
- + 41,000 points (Referral purchased \$4,100 Smart Node)
- + 12,500 points (Prior 7-day points average * 0.5)
- + 6,250 points (Prior 30-day points average * 0.25)
- = 83,750 points total

Now let's say this happened in the second year of distribution where $\approx 34,246,575$ **IZE** is distributed per day and 100,000,000 points were earned between the entire Galvan DGF combined that day. You earned $\approx 0.084\%$ of the total daily community points, so you would earn $\approx 0.084\%$ of the **IZE** for that day which would be

≈ 28,767 IZE



governance

The IZE Blockchain and distribution are governed by Galvan DGF (Distributed Governance Framework), a decentralized community of Galvan node owners. Below is a summary of the "Charter," which was originally ratified on Nov. 27, 2022 and last updated through vote on Apr. 16, 2023. Click here for the full, latest Charter document.

- **Structure** The Node Network Charter is subdivided into the following parts:
 - Galvan DGF Agreement your responsibilities and rights.
 - Galvan Parameters the action points that earn IZE rewards.
 - Community Guidelines the norms of behavior.
 - Node Network Governance Framework the proposal/voting process.
 - Node Network Mediation Body the dispute resolution process.
- Node Network DGF Agreement When you buy a node license, you become a member
 of the node network distributed governance framework (DGF), which enables
 governance of the IZE Blockchain, the features of the distribution algorithm, the ledger,
 and the infrastructure. As a node operator, you agree to work with other node operators
 to govern the network and the following:
 - Limitation of liability as part of the node network to the fullest extent of the law.
 - Sole responsibility for the operation of the network, decisions taken, and their proper implementation.

- Indemnification to the node network for damages.
- Delegation to Node Governance for certain administrative tasks.
- Representation that you are not in a restricted jurisdiction.
- Creation of node network governance committee to represent the node network DGF.
- The right to leave the node network DGF at any time by terminating your node license.
- **Galvan Parameters (Action Points)** Initial actions that earn points, which are used to calculate the distribution of **IZE**:

Smart Node: Every day your Galvan Smart Node is active for at least 6 hours beginning February 17, 2022.	25,000 points
Lite Node: Every day your Galvan Lite Node is active for at least 6 hours beginning February 17, 2022.	100 points
Weekly Memory: Average of prior 7-day's points multiplied by 0.5	Variable
Monthly Memory: Average of prior 30-day's points multiplied by 0.25	Variable
Referral: Every time someone you referred (using a Galvan referral link) spends the equivalent of \$1.00 (e.g. a Lite Node Purchase for \$25 would equal 250 points). These points may accrue to up to five Smart Nodes belonging to the same person who made the referral.	10 points

Galvan+ - Daily Exercise: 30 minutes of exercise in a single 24-hour day (documented according to Galvan+ App rules).	300 points
Galvan+ - Weekly Exercise: 150 minutes of exercise in a single 7-day week (documented according to Galvan+ App rules).	200 points
Galvan+ - Mental Wellness Check-in: a subscriber conducts a mental wellness check-in (using the Galvan+ App) - points will be awarded for each check-in, for up to three (3) check-ins during a 7-day week.	700 points
Galvan+ - Weekly Mental Wellness: a subscriber will be awarded points only if three (3) check-ins are completed during a 7-day week.	200 points
Galvan+ Node: Points earned in association with the Galvan+ membership activities require active syncing to receive eligible IZE token distributions. IZE is distributed once actions are confirmed on the blockchain.	-

16

- Community Guidelines Participating and interacting within the node network DGF is a collaborative experience. The goal is to create an environment that will allow its members to thrive. Node operators shall promote inclusivity, positive communication, full compliance with laws, and shall never collude.
- Governance Framework The node network governance framework provides the fundamental rules for the proposal/voting process. It seeks to ensure the involvement of all the node operators in the decisionmaking process and is based on the principles of transparency, inclusion, and participatory decision-making. Node operators are encouraged to express their opinions and to propose innovations contributing to the DGF prosperity.
 - Proposals must include:
 - Identification of proposal initiator
 - Contact method for answering questions about the proposal
 - Summary of the proposal
 - Supporting rationale for the proposal
 - Long-form description of the proposal to be enacted if passed
 - Section acknowledging similar or prior work known to the initiator (if applicable)
 - Proposals require staking 30,000,000 IZE tokens
 - Stakes are returned after the vote. To discourage frivolous Proposals, the stake shall be slashed by 50% if the proposal does not garner at least 10% of the participating nodes voting in favor.

- Each Smart Node shall have one vote. Each Lite Node shall have 0.004 (1/250th) of one vote. A single node operator may vote all nodes under their control.
- Implementation is delegated to Node Governance LLC.
- Proposal Protocol:
 - 1 New proposal is initiated (in accordance with the Proposal Requirements).
 - 2 Voting is open by default for a duration of 48 hours.
 - 3 Proposal is deemed approved and scheduled for execution if the two following conditions are met:
 - i A quorum minimum of 50% of the Nodes have voted or have been represented in the vote through proxy.
 - ii A 75% majority of participating Nodes have voted in favor of the proposal.
- Approved proposals are subject to referendums.
- Implementing the proposal process will take time due to development and technological needs.
- Governance of the validator nodes is separate from and not controlled by the node network DGF.
- Mediation Body The node network mediation body is not yet active, but will assure a process to solve issues between the node operators or issues arising with respect to the charter, the smart contract terms, the validation process, the consensus mechanism, the node network parameters, the distribution algorithm, or the reward mechanisms.

the future of health is here.

Join the Community www.discord.gg/galvan