galvan™

litepaper

Version 1.2 - 2/22/23

Galvanize (verb)[1]
to inspire or stimulate someone to take action.

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disclaimer

Rewards

Galvan does not sell tokens. The Galvan Blockchain, which is governed by Galvan Node Owners, self-governs the distribution of tokens. Tokens are earned in exchange for work and action on the Galvan Blockchain. The token is designed to have utility on the Galvan platform for the purchase of Galvan's products and services. The token is not an investment product and may never have any value outside of the Galvan platform. Galvan Node Owners should not expect to recognize any value from the token other than its utility with Galvan. Galvan does not anticipate correlation between the token value and Galvan's business activities.

Forward-Looking Statement

This litepaper may contain forward-looking statements that involve substantial risks and uncertainties. Forward-looking statements discuss plans, strategies, prospects, and expectations concerning the business, operations, markets, risks, and other similar matters. There may be events in the future that we cannot accurately predict or control. Any forward-looking statement contained herein speaks only as of the date on which it is made. Factors or events that could cause our actual results to differ may emerge from time to time, and it is not possible for us to predict all of them. We do not plan to update or revise publicly any forward-looking statements except as required by law.

background

In 2009, Bitcoin was born. By leveraging the world's first public blockchain, it has since grown into a digital currency used by millions of people worldwide and has sparked an international movement to democratize finance. And although a consistent target by various groups and organizations—the Bitcoin blockchain has never been hacked.

But it's not just finance it has disrupted—Bitcoin has spurred a revolution for a new phase of the internet referred to as "Web3."

Web3 empowers users to not only access and publish content on the internet, but allows them to own it. It is permissionless and trustless. It focuses on community and decentralization. It is built on blockchain technology.

New organizations called DAOs are being built on Web3. There are Web3 browsers, search engines, and streaming platforms. With Web3 you can show digital proof of ownership, earn higher creator royalties, own in-game digital assets, and best of all—not have your data tracked and sold to advertisers. This is because with Web3, you own and control your data.

The days are still early for Web3, but it is time for one of its greatest use cases to be realized:

Web3 Health and Wellness.

introducing

galvan™

At Galvan, we aspire for you to take ownership of your health and wellness. This will be accomplished through an ecosystem that empowers you to own and control your health data, informs you about ways to care for yourself and others, and rewards you for making healthy choices. By leveraging blockchain technology and a unique Proof of Action distribution algorithm, Galvan is turning self-care into a reward-generating activity and reintroducing personal accountability.

OUR MISSION

Galvanize humanity to invest in personal and community wellness.

For information on the Galvan Team and Roadmap, visit our website.

solutions

Galvan aims to change the paradigm of health maintenance and wellbeing by decentralizing the health industry and returning the control to individuals and families. This will be accomplished by focusing on the following key tenets:

- **Decentralized Network** - Centralized health systems require a single entity to coordinate everything, despite unique individualized needs, circumstances, and values requiring precision.[2] By creating a worldwide, decentralized blockchain network, Galvan will establish the infrastructure for global health and wellness transactions.
- **Data Ownership** - Patients do not own and control their health information, which has resulted in data breaches of centralized health records, costing billions annually.[3] Galvan will provide a secure, readily available product allowing individuals to own and control their health data, which has many proven benefits.[4 5]
- **Increase Transparency** - There is inadequate transparency with health information for patient decision-making, including challenges with communicating and understanding the risks/benefits of healthcare.[6 7] Galvan will empower you with unbiased information and tools so you can make more informed health decisions.
- **Realign Incentives** - Current policies focus on incentives to systems, payers, and healthcare providers, but not to patients.[8] Galvan will incentivize healthy behaviors through rewards and other proven strategies to improve outcomes.[9 10 11]

blockchain

Layer 1: Ethereum Blockchain

At the base of the Galvan ecosystem is Ethereum, a public blockchain that enables the creation of smart contracts and the ERC-20 IZE token. Although a powerful platform, Ethereum can oftentimes be slow and expensive, which prevents it from being Galvan's sole blockchain solution.

Layer 2: Galvan Blockchain

The Galvan Blockchain is a fork of Ethereum and uses the Proof of Authority consensus mechanism. This layer is governed by the Node Network DGF based on a charter voted on by Node Owners. A Swiss entity called Node Governance LLC assists in the administration of blockchain governance.

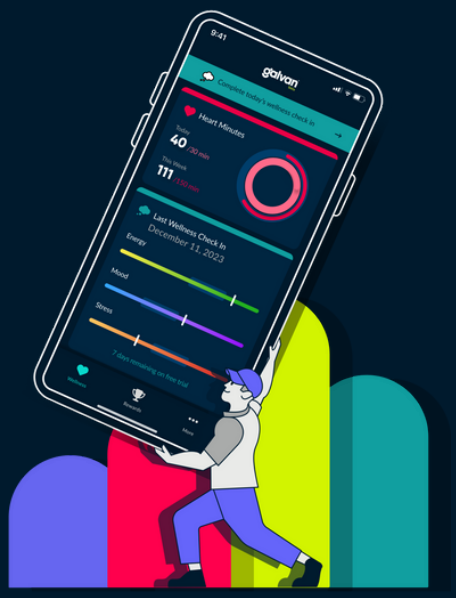
The purpose of this layer is to be able to distribute digital assets like IZE rewards to Node Owners with sufficient scalability, low costs, and top speeds.

Layer 3: Galvan Ledger

The Galvan Ledger is a database with an immutable ledger for accounting purposes. The ledger consults with the licensed nodes that form a decentralized computer on behalf of Galvan. Actions of the nodes lead to points, which then lead to IZE distribution. The accounting on this ledger is verified and added to the Galvan Blockchain.

Layer 4: Galvan App & Dashboard

The Galvan App and Dashboard are the interfaces that allow you to interact with all of the layers listed above. They include a non-custodial wallet for managing digital blockchain assets, useful information about nodes and rewards, and tools for tracking and improving your health and wellness.



nodes

Galvan node licenses grant users the right to confirm transactions and vote on the Galvan Blockchain. There are two different types of licenses:

Smart Node™

- 100,000 max supply
- Access to confirm transactions on the Galvan Blockchain
- 25,000 points for running the node 6 hours in a day
- 1 consensus vote
- Future NFT drops
- Starting price of $2,000 with price increases as more are sold

Lite Node™

- 25,000,000 max supply
- Access to confirm transactions on the Galvan Blockchain
- 100 points for running the node 6 hours in a day
- 0.004 consensus vote
- Fixed price of $25

The first 20,000 Smart Nodes™ functioned to develop the Galvan Blockchain from February 17th to December 6th, 2022. During the early development period, to reward early node purchasers, only ≈25% of the development nodes were functioning on any given day. After December 6th, 2022, development Smart Nodes™ will function the same as all Smart Nodes™ and will be rewarded identically.

digital rewards

Galvan nodes facilitate the distribution of IZE, a digital reward whose purpose is to incentivize healthy actions and growth for the Galvan Blockchain.

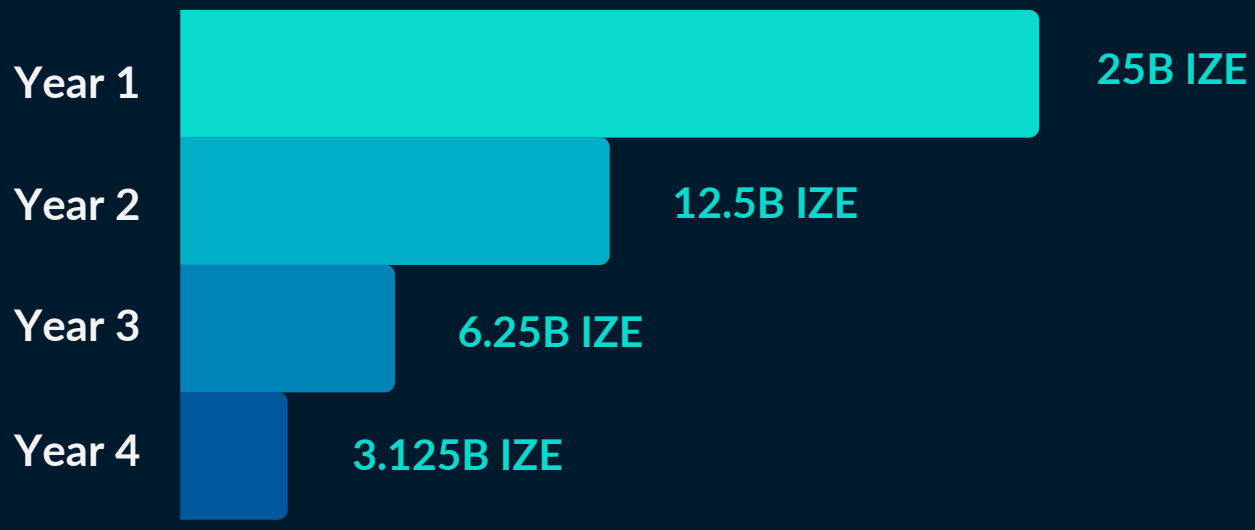
The utility of IZE, aggregated from several third-party service providers and partners, will cover a broad spectrum that includes, but isn't limited to:

- Transferability with the Ethereum Blockchain to create ERC-20 IZE tokens
- Staking for Node Network DGF proposals
- Purchasing premium memberships to the Galvan Wellness App
- Purchasing Galvan node licenses
- Purchasing Galvan NFTs
- Purchasing Galvan health and wellness products
- Purchasing health and wellness products from other participating partners
- Loyalty points balance
- VIP treatment (i.e., exclusive online merchandise, concierge services, invitations to live events)
- Exclusive promotions and discounts (i.e., free ticket/item with an order)

digital rewards

IZE has a maximum supply of 50,000,000,000 tokens, half of which will be distributed to Node Owners through the Galvan 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.



and so on until 50 billion IZE distributed.

Fun Fact: While "IZE" is the symbol and more commonly used, "Galvan" is the name for the digital rewards. This means that rewards can be referenced as Galvan (IZE), revealing the word "galvanize."

proof of action

Proof of Action is the algorithmic protocol that determines how IZE rewards are distributed among Node Owners through the Galvan Blockchain.

The process is as follows:

1 — A user earns points based on actions voted upon by the Node Network DGF (specific actions and their accompanying points can be seen in the "Governance" section of this document).
2 — The user's total points earned today are added to the L3 Galvan Ledger.
3 — Every day at 00:00 UTC, a fixed amount of IZE is distributed based on the year of the current distribution schedule. The user's individual IZE allocation is calculated from the percentage of points they had that day compared to the total community points combined. In other words, the more points the user earned compared to everyone else, the bigger piece of that day's IZE distribution they would receive.
4 — The user's IZE distribution is confirmed by their node and added to their wallet on the L2 Galvan Blockchain.

Owning and operating a Galvan node license is required to participate in the Proof of Action protocol—otherwise an individual's points would not be able to convert into on-chain rewards.

proof of action

Example:

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

25,000 points (1 Smart Node™ ran for >=6 hours)
\+ 40,000 points (Referral purchased $4,000 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 first year of distribution where ≈68,493,150 **IZE** is distributed per day and 100,000,000 points were earned between the entire Galvan community combined that day. You earned ≈0.084% of the total daily community points, so you would earn ≈0.084% of the **IZE** for that day which would be ≈**57,363 IZE**

governance

The Galvan Blockchain and IZE distribution are governed by Node Network DGF (Distributed Governance Framework), a blockchain coordination protocol made up of Galvan Node Owners. Below is a summary of the "Charter," which was agreed upon through a DGF vote that took place from Nov. 14, 2022 to Nov. 27, 2022.

- **Structure** - The Node Network Charter is subdivided into the following parts:
  - Node Network 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 L2 Galvan Blockchain, the features of the Distribution Algorithm, the L3 Ledger, the infrastructure, and other common resources. 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 L2 Network, decisions taken, and their proper implementation.

- Indemnification to the Node Network for damages.
- Delegation to Node Governance LLC 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**
Daily Exercise: 30 minutes of exercise in a single 24-hour day (documented according to Galvan Wellness App rules)	**100 points**
Weekly Exercise: 150 minutes of exercise in a single 7-day week (documented according to Galvan Wellness App rules)	**200 points**
Development Node: Every day your Galvan Smart Node™ was available for blockchain development between February 17, 2022 and December 6, 2022. Actions contributing to the development of validator nodes, network load, computing power requirements, and other software development parameters necessary for the development of the Galvan Blockchain are included.	**25,000 points**

- **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 decision-making 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 digital rewards
  - Stakes are returned after the vote. Stakes may be slashed for incompatibility with the DGF Charter and/or insufficient support in the vote (<10%)

- 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 his/her/its control.
- Implementation is delegated to Node Governance LLC.
- Proposal Protocol:
  1 — You initiate a proposal (in accordance with the Proposal Requirements) through the interface provided by Node Governance LLC.
  2 — A notice is sent announcing the proposal before voting begins.
  3 — Voting is open for at least 48 hours.
  4 — 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 assures 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 galvan™ is in your hands.

Get started at
www.galvan.health

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