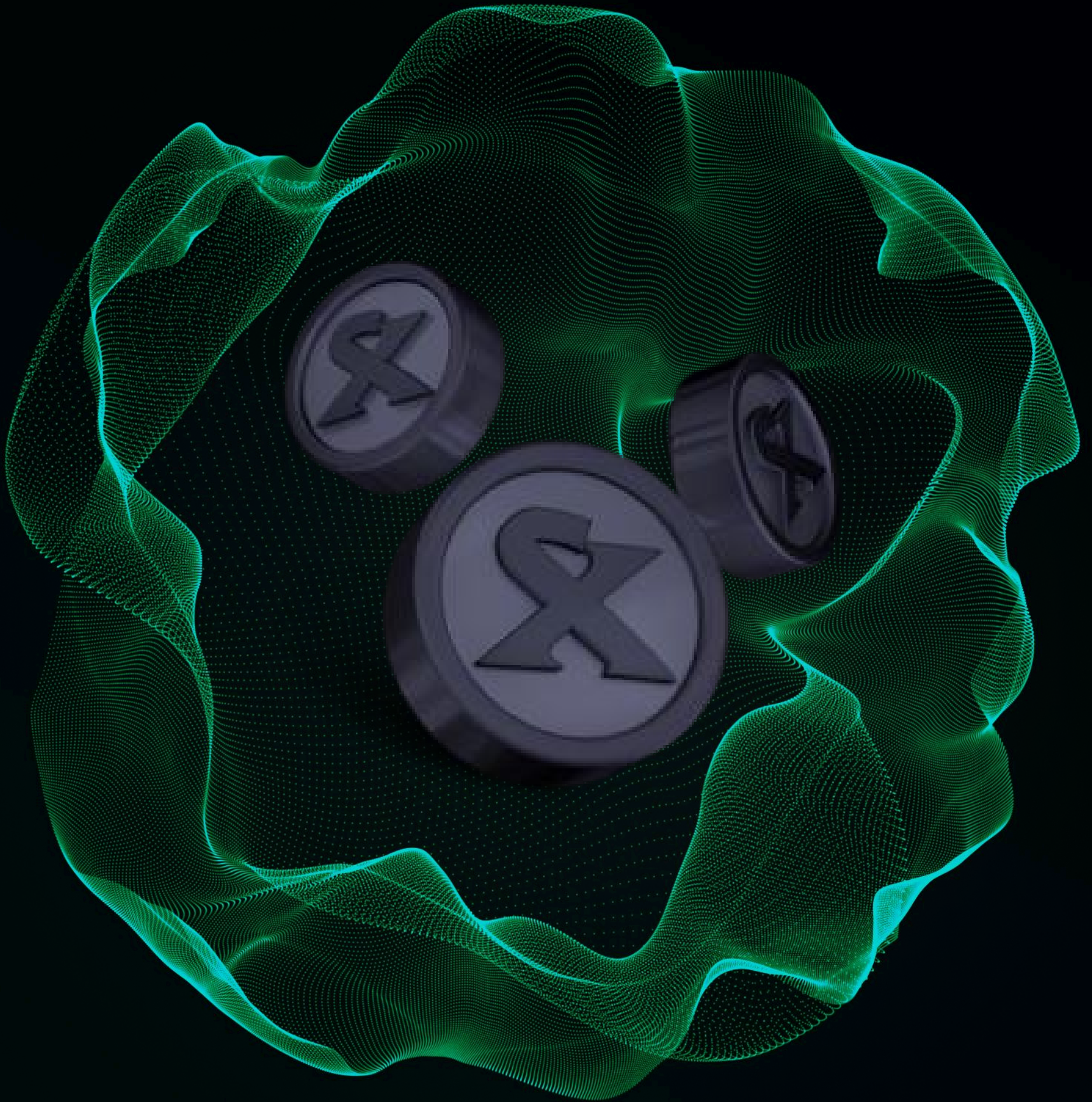


STENIX



LITEPAPER



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# INTRODUCTION

Blockchain technology has great potential in the "Internet of Things" (IoT), finance, governance, identity management, online decentralization, and asset monitoring industries. Despite promising technology and significant discussions, the technique has yet to be widely implemented in other real-world areas.

At Stenix, we believe that these five primary shortcomings of the existing technological stacks can be attributed to:

## 1 Scalability:

What is the global processing, bandwidth, and storage cost for one transaction? How many transactions can be processed under peak conditions?

## 2 Isolatability:

Is it possible to effectively meet the diverse requirements of different parties and applications within a single framework?

## 3 Developability:

Are the tools effective? Do APIs satisfy developers? Are educational materials available? Are the integrations correct?

## 4 Governance:

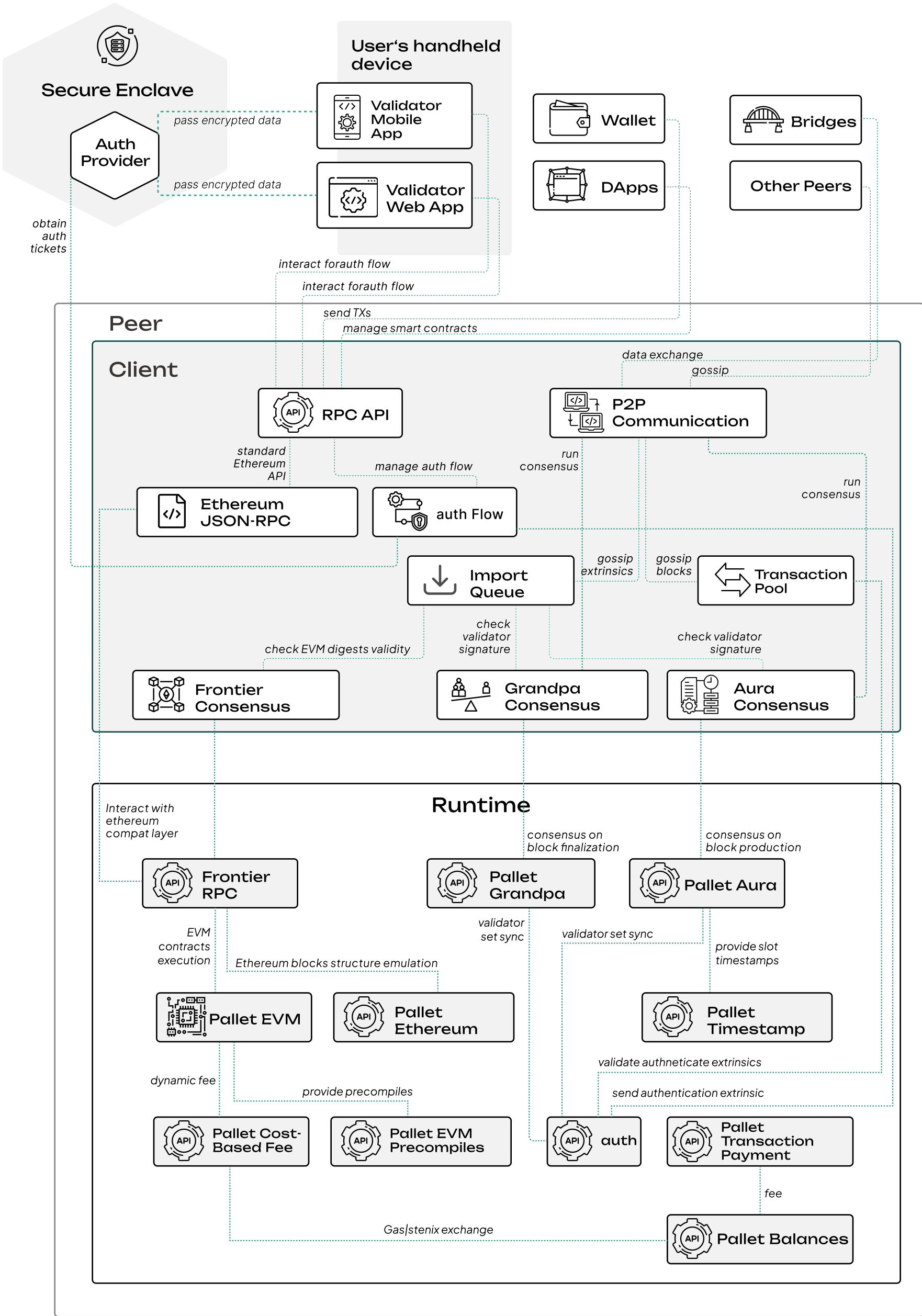
What is the global processing, bandwidth, and storage cost for one transaction? How many transactions can be processed under peak conditions?

## 5 Applicability:

Does the technology alone address a pressing need? Are there any middleware components needed to connect to real applications?

Our objective in this Litepaper is to address the initial obstacles of scalability and isolatability. We believe that the Stenix framework has the potential to provide solutions and bring about significant improvements in each of these problem areas.

# STENIX ARCHITECTURE



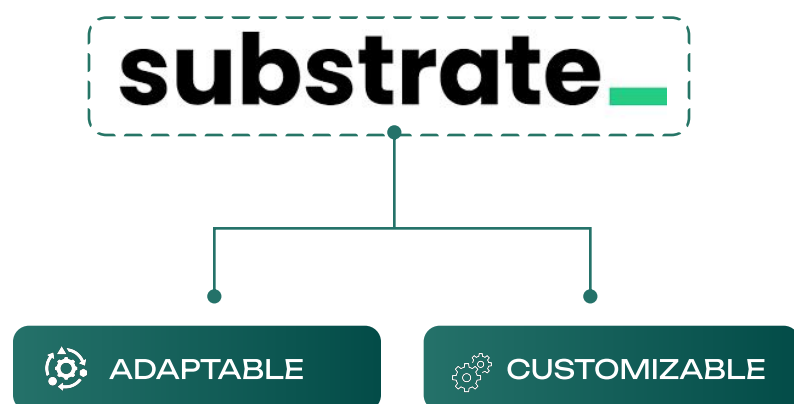
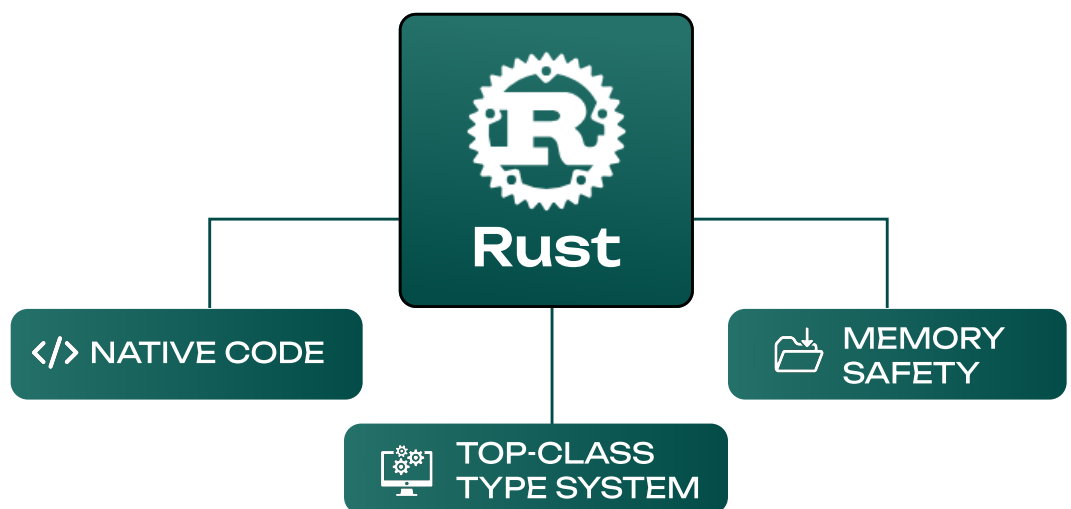


# STENIX BLOCKCHAIN PROTOCOL

With future growth scheduled, Stenix's initial deployment is meant to be a simple-to-maintain and consistent codebase. One must have a strong basis if one is to create a first-rate system. Choosing the most appropriate programming language for the implementation is among the main decisions to be made.

## RUST

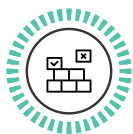
After evaluating Rust, Go, and C++, we chose Rust for our implementation, with Go a close second. The top-class type system and memory safety make Rust ideal for long-term projects that demand high-quality code and maintainability. The language creates native code instead of a VM, making it efficient.



## SUBSTRATE

Every blockchain developer must decide whether to design the codebase from the beginning or use an existing one that meets their needs. Although this decision may initially seem simple, it presents a complex quandary.

Substrate is a versatile platform that enables the creation of pre-built blockchains by combining customisable or pre-existing components. Our primary objective for this project is to eliminate the token's function in the consensus mechanism. As a result, we are committed to advancing the collaborative elements of the network. The concept of modular customisation is a tremendous asset on our Stenix journey.



Substrate has been designed specifically as a developer tool rather than an end product, serving as a platform for building blockchains.



The code quality of Substrate is impressive, indicating a strong commitment to maintaining high standards.



We decided we wanted something more like a library than a framework, and Substrate's code flexibility and modularity was just what we required. If we were writing the code from scratch, we would take a very similar approach to the Substrate developers.



Many individuals are always working on and improving Substrate, which means that merely building on Substrate will result in a steady stream of improvements. Substrate has a strong community that can assist with any issues that may arise.



Substrate has shown to be a wonderful tool thus far, allowing us to focus on difficulties unique to Stenix rather than the common ones of blockchain development.

# STENIX COMPONENTS

Here is a list of the essential components that encompass the primary requirements for achieving our goals with Stenix.



## The Stenix App

The Stenix App is a versatile application that empowers users to actively engage with the Stenix network. With this app, users can effortlessly navigate the network, securely complete transactions, contribute as a node operator, participate in block production, and actively engage with the Stenix DAO.



## Consensus

Consensus is a fundamental principle of the Stenix network, enabling participants to reach agreement on the state of the blockchain. This is a crucial aspect of Stenix's features- Proof-of-stake.



## Консенсус Aura

Aura consensus is a deterministic consensus protocol that focuses on block authoring. It allows a limited list of authorities, known as validators, to take turns creating blocks. Prior to the commencement of block production, it is crucial to select the appropriate authorities who possess a comprehensive understanding of the entire authority set. Time is organized into "slots" of a predetermined duration. Each slot produces one block, with the authorities taking turns indefinitely to produce blocks.



## Frontier Consensus

The frontier consensus is a feature that adds an Ethereum compatibility layer to enable the native execution of Ethereum decentralized applications (dapps). It achieves this by enabling the capabilities of running Ethereum Virtual Machine (EVM) contracts, emulating Ethereum blocks, and validating transactions.



## Stenix Peer

The Stenix Peer (substrate-based node) is a blockchain node that operates within the Stenix network.



## The Stenix-rpc

The Stenix-rpc is a crucial component that facilitates seamless interaction between blockchain users, including the Stenix app and other dapps, and the Stenix network through HTTP and WebSocket RPC servers.



## The Stenix-runtime

The Stenix-runtime is a crucial component that shapes the behavior of the Stenix network. It encompasses various aspects such as storage, state transition logic, block processing, and transaction processing. Additionally, it allows for one of the key features of Substrate-based blockchains: the ability to upgrade the runtime without the need for a fork.



## Grandpa Consensus

Grandpa consensus is a deterministic consensus protocol that ensures block finalization by involving each authority in two rounds of block voting. Once two-thirds of the authorities have cast their votes in favor of a specific block, it is deemed to be officially finalized.



# STENIX FEATURES

What does Stenix primarily aim to achieve? As a catalyst for blockchain experimentation and development, Stenix is significant. Stenix aspires to let the blockchain industry test and experiment with new state transition features faster, much how Ethereum made it easier to explore decentralized apps (DApps).

## Here are some key purposes and features of Stenix:



### Driving the Pace of Innovation:

Stenix's goal is to accelerate the innovation process in the blockchain industry by offering a platform for testing new features and state transitions.



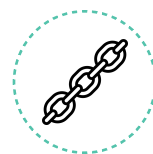
### Creating Cryptocurrencies Made Easy:

Stenix streamlines the process of cryptocurrency creation. Individuals or organizations can effortlessly generate their own tokens for personal or corporate use with a simple click on the Stenix blockchain.



### Security and Confidentiality:

Stenix offers a cutting-edge shared security system that enables chains to authenticate transactions through its robust infrastructure. It enables seamless collaboration between projects that prioritize privacy, forks, and other techniques for maintaining confidentiality.



### Utilizing Chain Features:

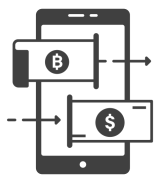
Stenix enables the blockchain to harness its own capabilities for spreading innovations and improving functionality.

To sum up, Stenix is a platform that aims to accelerate the development and acceptance of blockchain technology by facilitating blockchain experimentation, collaboration, and interoperability.

# STENIX BENEFITS

Stenix is more than just a blockchain platform – it's a catalyst for innovation, creativity, and financial empowerment. With our seamless cryptocurrency creation tools, anyone can launch their own digital currency and unlock new opportunities in the digital economy. With just one click. Instantly. Join us on this exciting journey and discover the limitless potential of blockchain technology with Stenix.

## What are the benefits of Stenix?



### Fast, Smooth, and Easy Mobile Control

Experience ultimate convenience with Stenix's mobile control feature, empowering you to buy Sten cryptocurrency or create your very own token with just one click. Say goodbye to complicated processes and hello to seamless transactions, all from the palm of your hand. With Stenix, the power of blockchain is at your fingertips.



### Full Control Over Instant Transactions

Enjoy the freedom of fee-free transactions with Stenix. Unnecessary charges are in the past, while seamless wallet-to-wallet transfers make your experience fast and cost-saving. With Stenix, sending payments has never been easier. Experience the true essence of blockchain technology with low-fee transactions.



### Safety and Security of Your Valuable Assets

Safeguard your assets with Stenix's advanced security measures. Benefit from multi-level protection against hacking and ensure the secure storage of your funds. With Stenix, your assets are shielded from threats, providing you with peace of mind and confidence in your financial security.



### Boost your savings and earnings

Maximize your savings with Stenix and watch your assets grow. Earn up to 50% annually simply by storing your Sten tokens. With Stenix, your investment not only stays safe but also generates significant returns over time, helping you achieve your financial goals faster.



INSTANT  
TRANSACTIONS



SECURITY AND  
CONTROL OVER  
MONEY



QUICK ACCESS  
TO FUNDS



## MAIN PALLETS



### Cost-based Fee

The cost-based fee is a mechanism that allows for the implementation of transaction fee economics in the Stenix network.



### Ethereum

Ethereum is a module that, when combined with the RPC module, provides for the emulation of Ethereum blocks, validation of Ethereum-encoded transactions, and deployment of existing dapps on a Stenix network with few modifications.



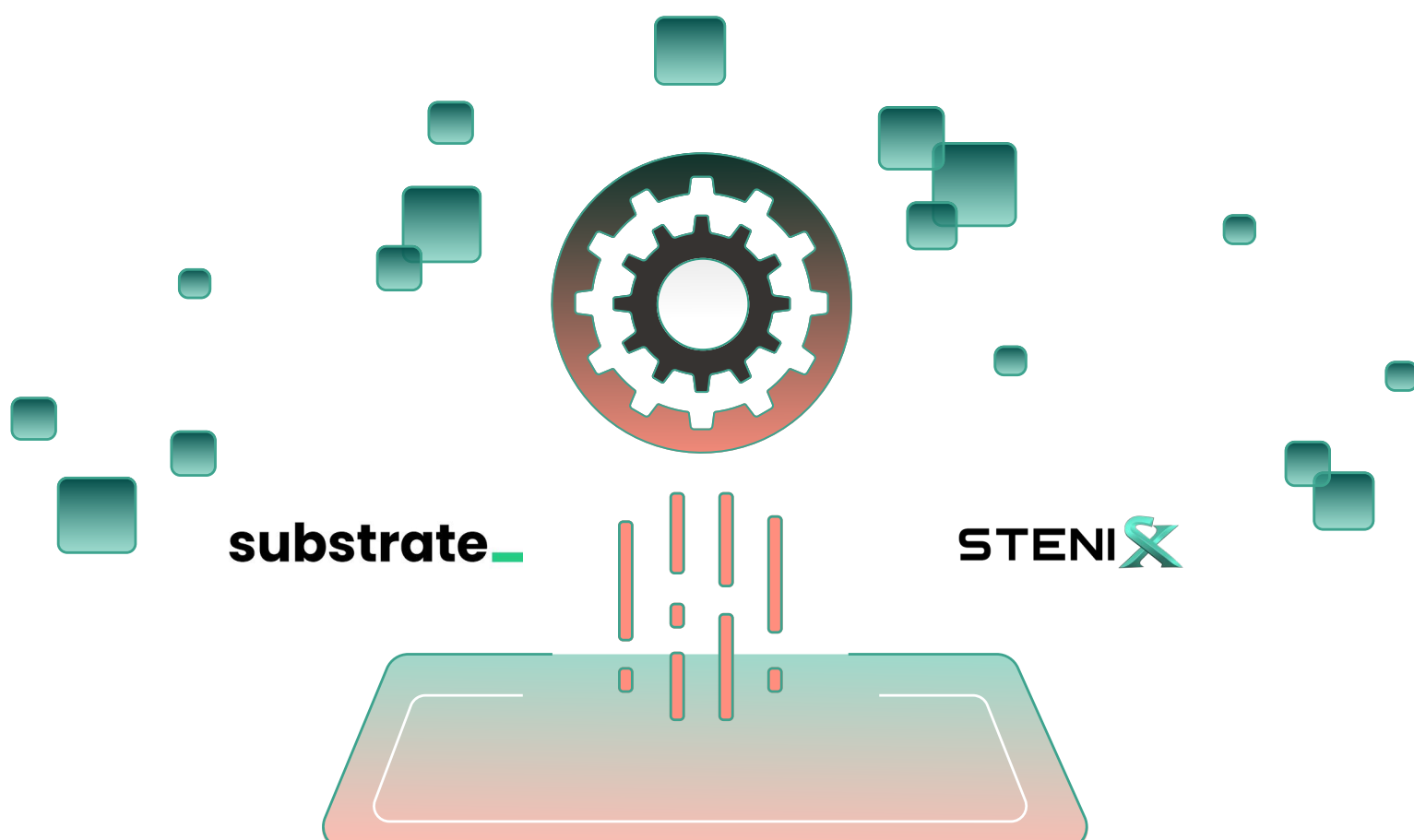
### Staking

Staking enables participants to lock their tokens in the network to support its security and operations. In return, they receive rewards, fostering engagement and stability within the Stenix network.

## Consensus agnosticism

A fascinating feature of Stenix that we strive for is consensus agnosticism, which refers to the capability of altering the network's consensus method if approved by the Stenix DAO. It arises from the need for ongoing investigation into the best appropriate agreement for a system without a leader, where all nodes have equal authority to validate. Various consensus processes possess distinct advantages and disadvantages that

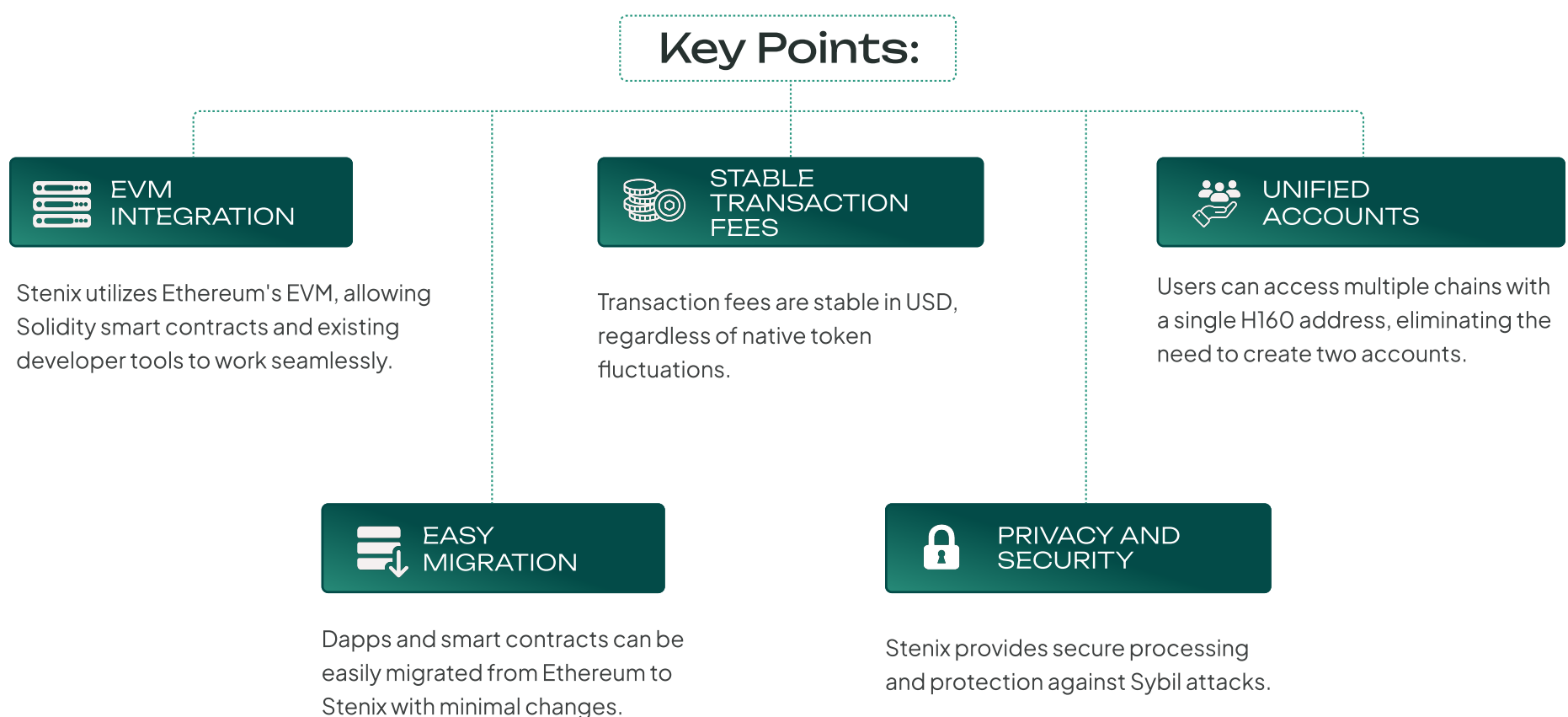
continually develop, alter, and fluctuate as a result of extensive research conducted by numerous scientists worldwide in this field. Implementing interchangeable consensus techniques would enable the Stenix network to progress and avoid being limited by a single consensus framework. In addition, the Substrate ecosystem is now making efforts to provide support for this particular feature.



# ETHEREUM COMPATIBILITY

The Stenix network incorporates an Ethereum Virtual Machine (EVM) pallet, enabling it to execute Solidity smart contracts and utilize pre-existing developer tools. The implementation relies on SputnikVM, which comprises four modules: evm, evm-core, evm-runtime, and evm-gasometer. The Stenix network aims to address the existing challenges of transaction fee pricing by ensuring that the costs remain consistent in terms of USD, regardless of the fluctuations in the value of the native token. Therefore, the evm-gasometer is substituted by a charge system based on costs.

Unified accounts, initially suggested by Moonbeam, address the issue of account incompatibility between H256 Substrate addresses and H160 Ethereum addresses. This incompatibility prevents users from directly sending transactions, forcing them to maintain two separate accounts and transfer assets between them in order to access both chains. By utilizing unified accounts, users can achieve a seamless multichain experience with only one H160. Transitioning a dapp or a smart-contract framework from Ethereum to Stenix will necessitate just minor modifications.



Smart contracts written in Solidity, along with block explorers, development tools, bridges, and frameworks for decentralized autonomous organizations, can be seamlessly transferred to the chain that relies on validators with equal authority.

The network will provide private Sybil resistance for dapps and protocols on other chains by connecting Stenix with other EVM-compatible chains.

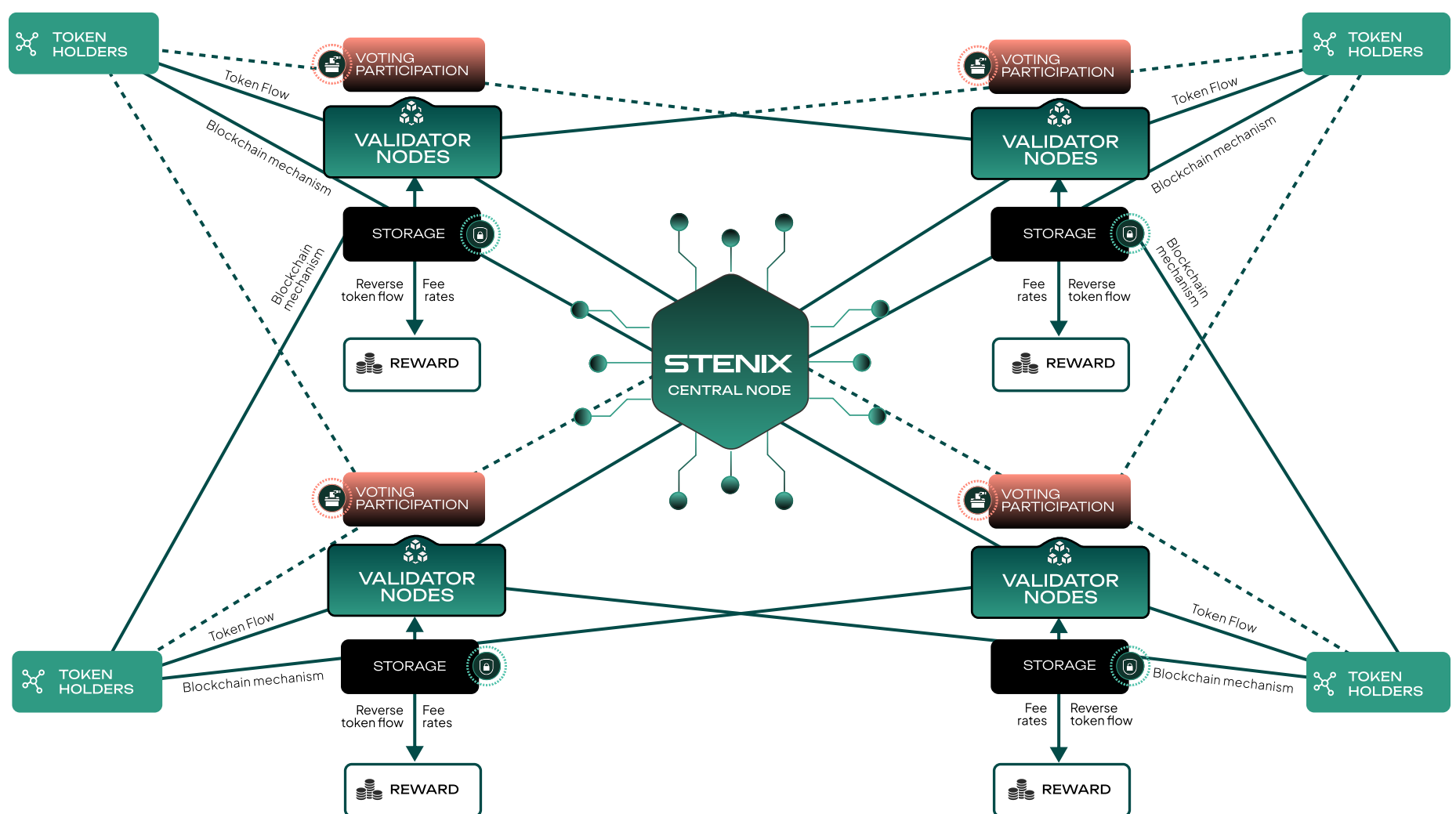
A Solidity-based smart contract deployed on a specified blockchain will establish communication with a decentralized financial protocol. Subsequently, the contract will transmit the request to the Stenix network, which serves as a repository for verification data. The Stenix network securely transmits ZK liveness proof and identity verification results to the DeFi protocol, ensuring that the user is a genuine human without relying on any Personally Identifiable Information (PII).



# STAKE DELEGATION

Holders of Sten Tokens can delegate all or part of their Sten Tokens to Validator Nodes or candidates for Validator Node positions, thereby increasing the number of Sten Tokens staked to the respective Validator Node or candidate for a Validator Node position. While Sten Tokens are staked, they cannot be spent or otherwise moved. Staked Sten Tokens are time-locked and can be unlocked with a waiting period. However, staking Sten

Tokens to a Validator Node does not limit the Sten Token holder's ability to participate in governance votes in Stenix. For the service which they provide for the security of the Stenix network, Sten Token Holders who delegate Sten Tokens to Validator Nodes receive a reward in the form of additional Sten Tokens. Stake delegation promotes competition between Validator Nodes and supports the decentralization of the Stenix network.



## Validator Nodes

The Stenix Blockchain is maintained by a set of Validator Nodes, which validate transactions, record valid transactions in Stenix's public ledger and append blocks to the Stenix Blockchain. This implies that they need to run an up-to-date software implementation of the Stenix protocol and operate a Stenix full node at all times.

The maximum number of Validator Nodes is capped. Entry to the current set of Validator Nodes is permissionless and determined solely based on the number of Sten Tokens which are staked to the respective Node, whereby both owned and delegated Sten Tokens are counted.

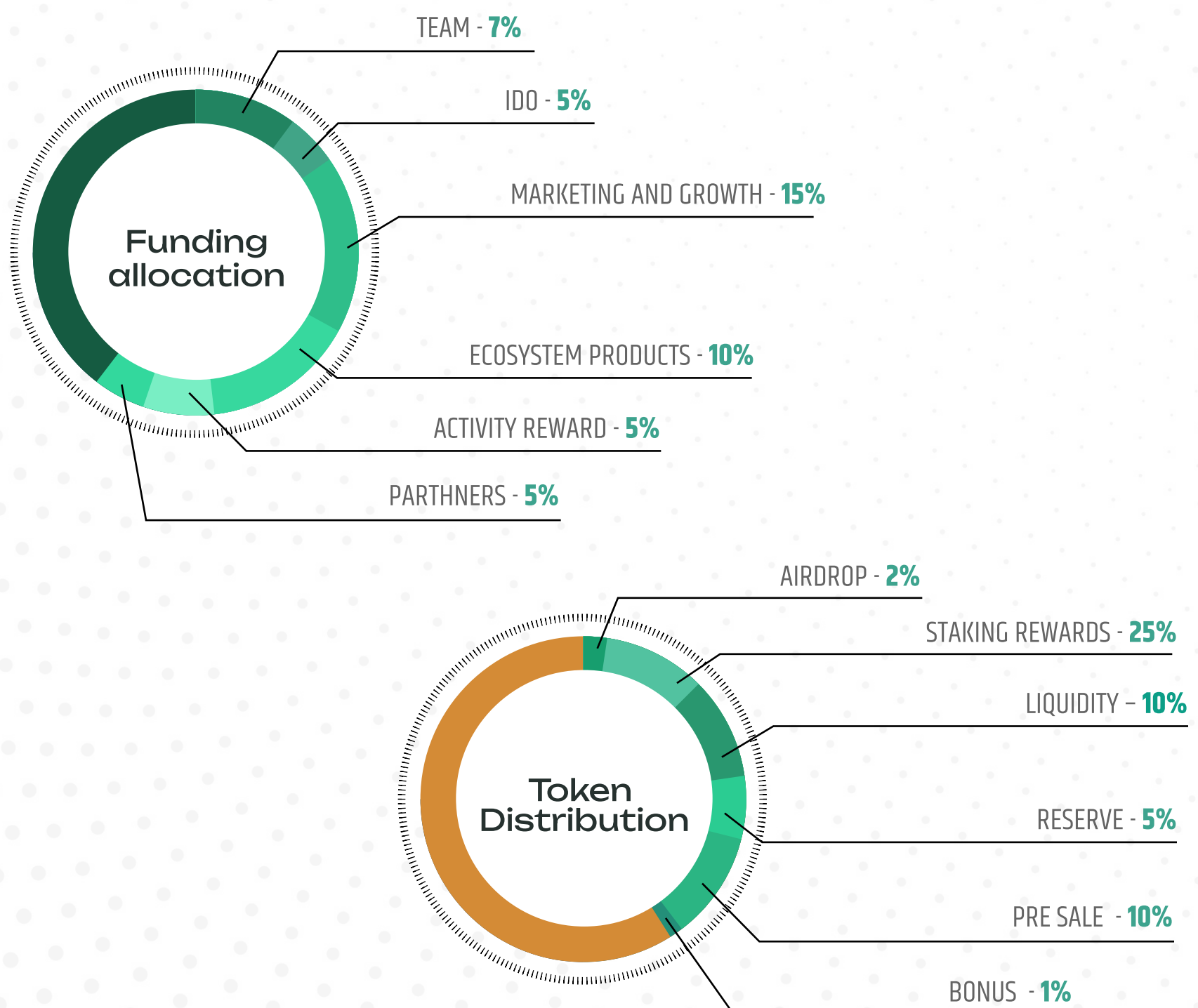
# STEN TOKEN

## Introducing The STEN Token

The STEN token lies at the heart of the Stenix ecosystem, serving as a fundamental component driving its functionality, utility, and value proposition. This chapter delves into the core aspects of the STEN token, outlining its purpose, features, and potential impact within the Stenix project.

## Tokenomics and Initial Value

The STEN token was introduced with an initial value of \$0.10, establishing a foundational basis for its valuation within the Stenix ecosystem. This initial value reflects the intrinsic value proposition of the token and sets the stage for its future growth and adoption.





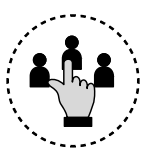
## ACTIVE PARTICIPANTS IN STENIX

Active participation lies at the core of the Stenix ecosystem, driving engagement, security, and innovation within the network. This chapter delves into the various roles and responsibilities of active participants in Stenix, highlighting the incentives and rewards associated with each role



### Validators

Validators are essential to Stenix network security. Their duties include contributing new blocks to the blockchain, enabling transactions, and engaging in consensus. Validators validate information within blocks and assist generate new blocks based on validity. Validators receive STEN token transaction fees, while consensus rule violations might result in penalties.



### Nominators

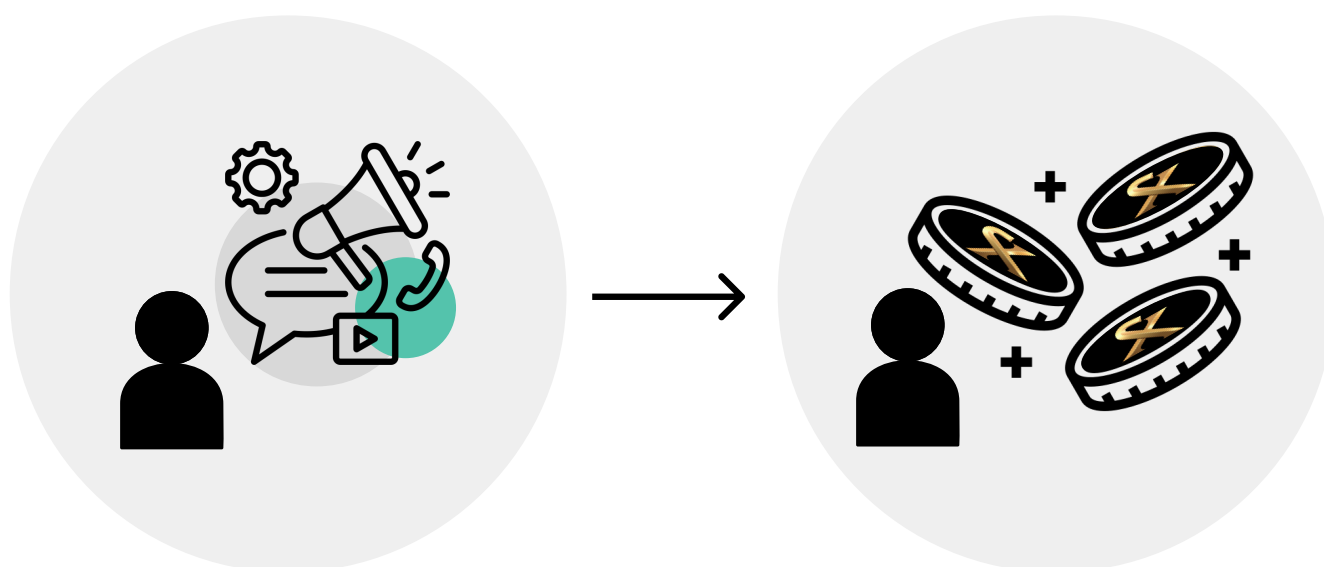
Validators are nominated by nominees and deposit funds as security. Validators may stake a large part of STEN tokens. Nominators must carefully evaluate and choose Stenix-compliant validators. Participants' stakes increase or decrease correspondingly with collateral STEN tokens.



### Initiative Participants

Participants offer blockchain transactions for validation. They are vital in producing validator state transition proofs, monitoring the network for errors, and maintaining entire blockchain nodes. Initiative participants create blocks and execute transactions like miners in proof-of-work blockchains.

## PROMOTERS



Promoters promote Stenix's airdrop and pre-sale programs online and on social media. Their efforts to promote Stenix blockchain values earn them STEN tokens. After the stablecoin launches on the Stenix network, high-activity partners receive STEN tokens and Sten20 USDT.

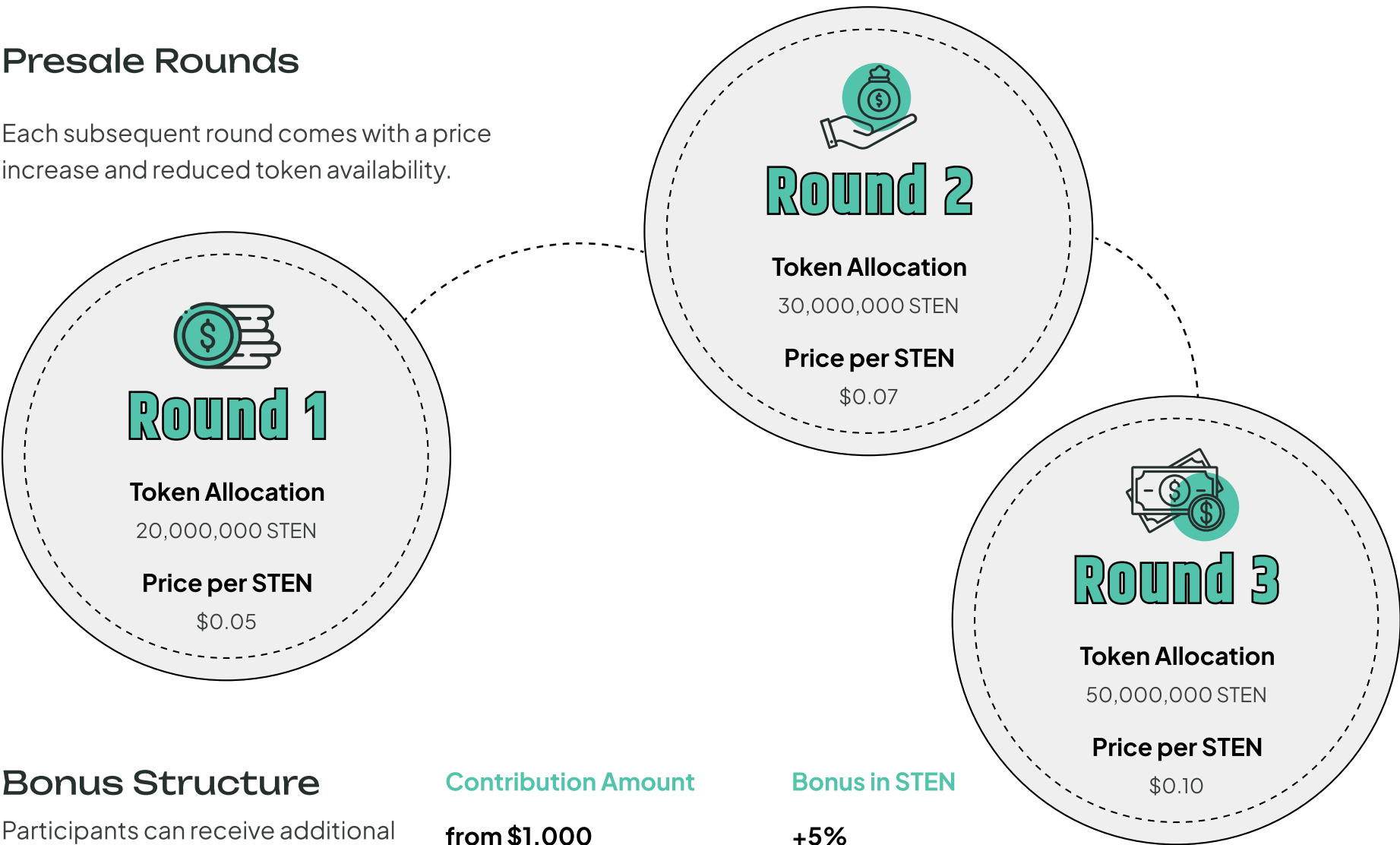
# STEN TOKEN PRESALE

Stenix is launching the initial presale of STEN tokens in a limited, multi-phase format. This is an opportunity for early supporters to access tokens at a reduced price while contributing to the development of the platform. Funds raised during the presale will be used for further protocol development, security audits, and the launch of key user tools.

The presale is divided into three rounds, each offering a fixed price and capped token supply.

## Presale Rounds

Each subsequent round comes with a price increase and reduced token availability.



## Bonus Structure

Participants can receive additional STEN tokens based on the size of their contribution:


Contribution Amount	Bonus in STEN
from \$1,000	+5%
from \$10,000	+10%
from \$100,000	+20%

**Example:** A \$10,000 purchase in Round 1 grants tokens at \$0.05 each, plus an extra 10% in bonus tokens.


## Early Participant Bonus

An additional **1% of the total STEN** supply is reserved for early contributors as part of the tokenomics. This pool will be distributed among the first presale participants and is strictly limited.


### Additional Notes



Participation requires a verified wallet.



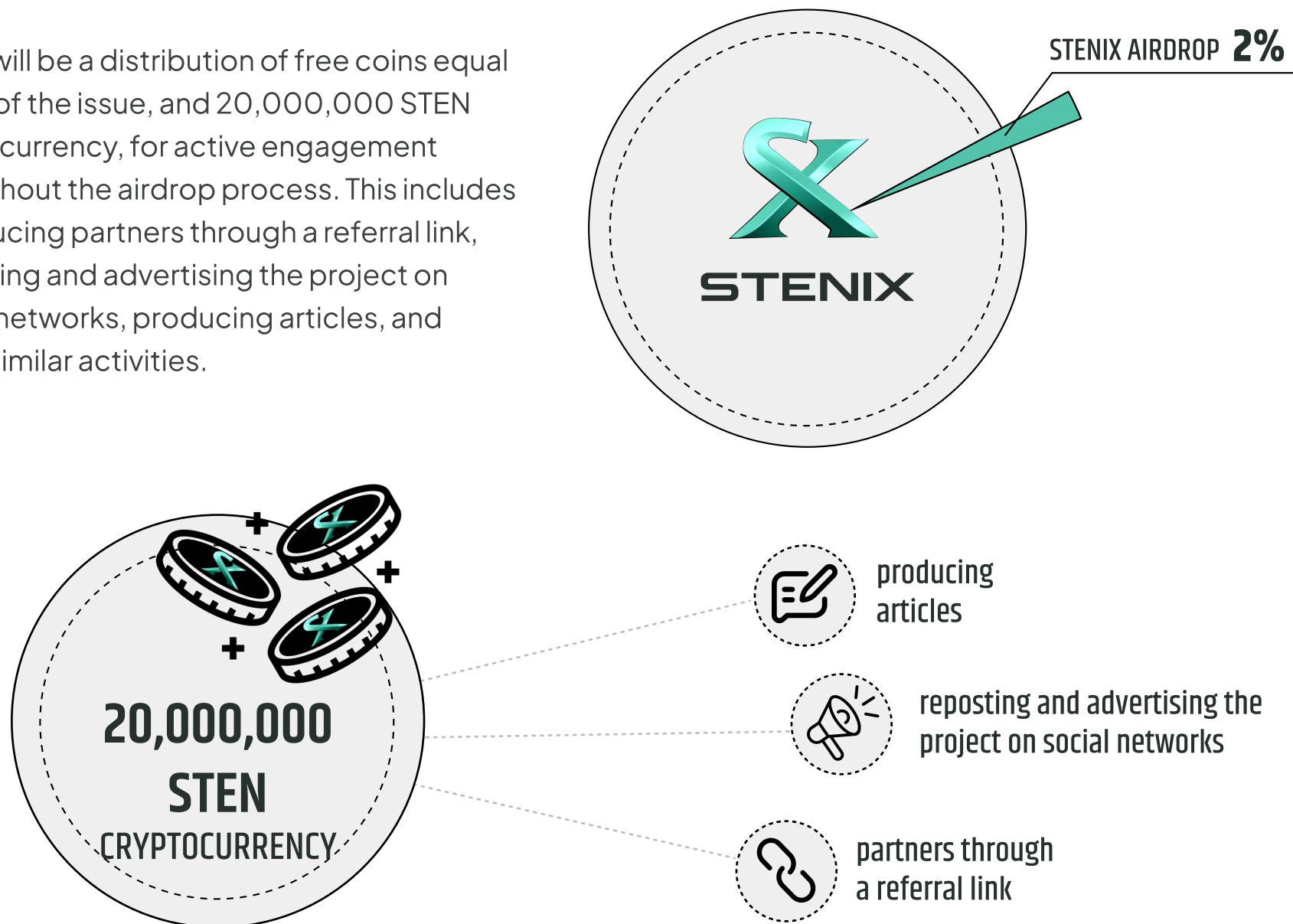
Bonuses are automatically calculated and added.



Token distribution will occur after the presale ends or once the round cap is reached.

## STENIX AIRDROP

There will be a distribution of free coins equal to 2% of the issue, and 20,000,000 STEN cryptocurrency, for active engagement throughout the airdrop process. This includes introducing partners through a referral link, reposting and advertising the project on social networks, producing articles, and other similar activities.



For active promoters and project participants who have an estimated rating increase from 0.00 to 10.00 points, where 0.00 is simply registration and 10.00 is a full-fledged owner and employee of the company, it is anticipated that they would experience professional advancement inside the STENIX ecosystem.

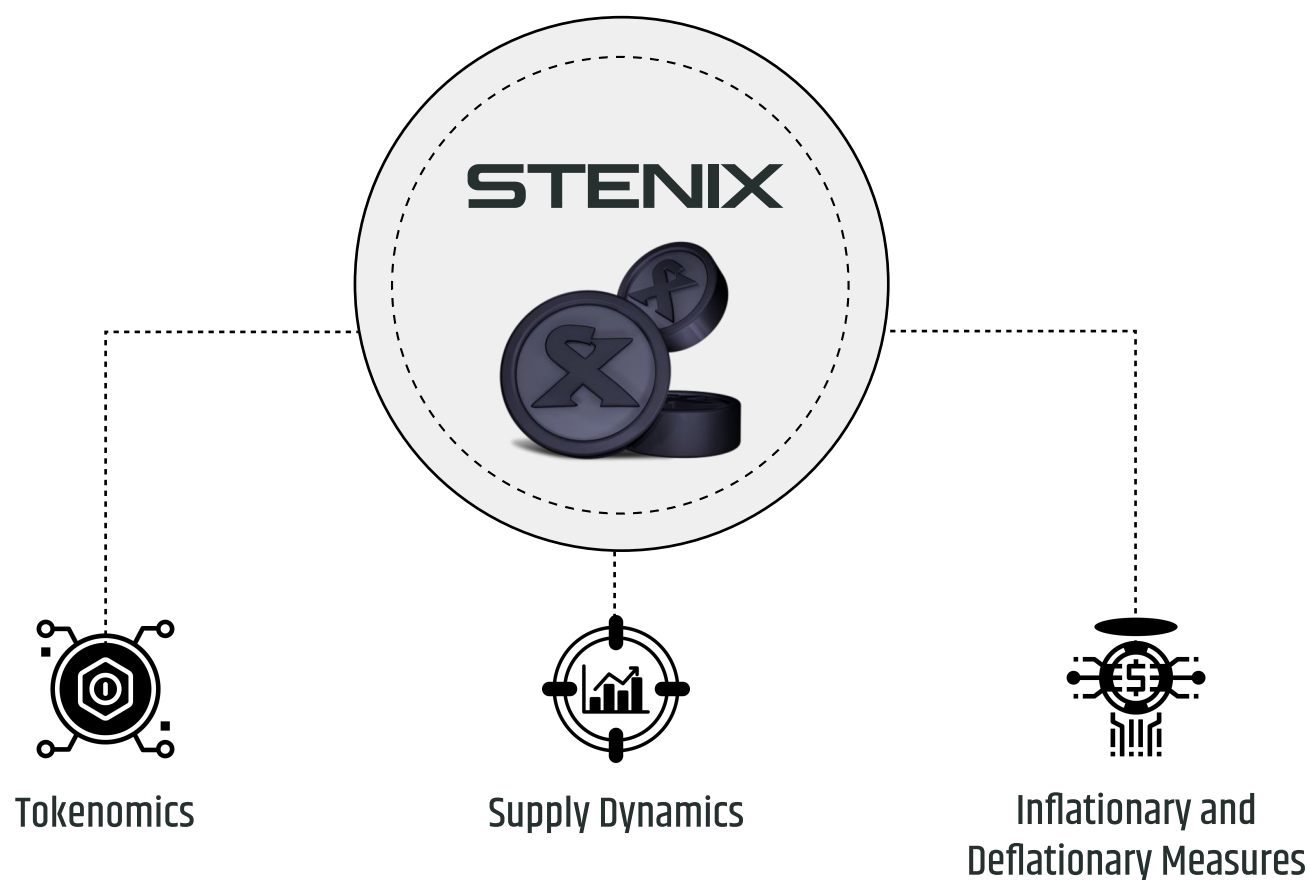
When other corporate products are released, all of the ratings and career advancements that have been gained within the Stenix ecosystem will be transferred to those other company products (you can see the project roadmap that will reveal the project that will be released).



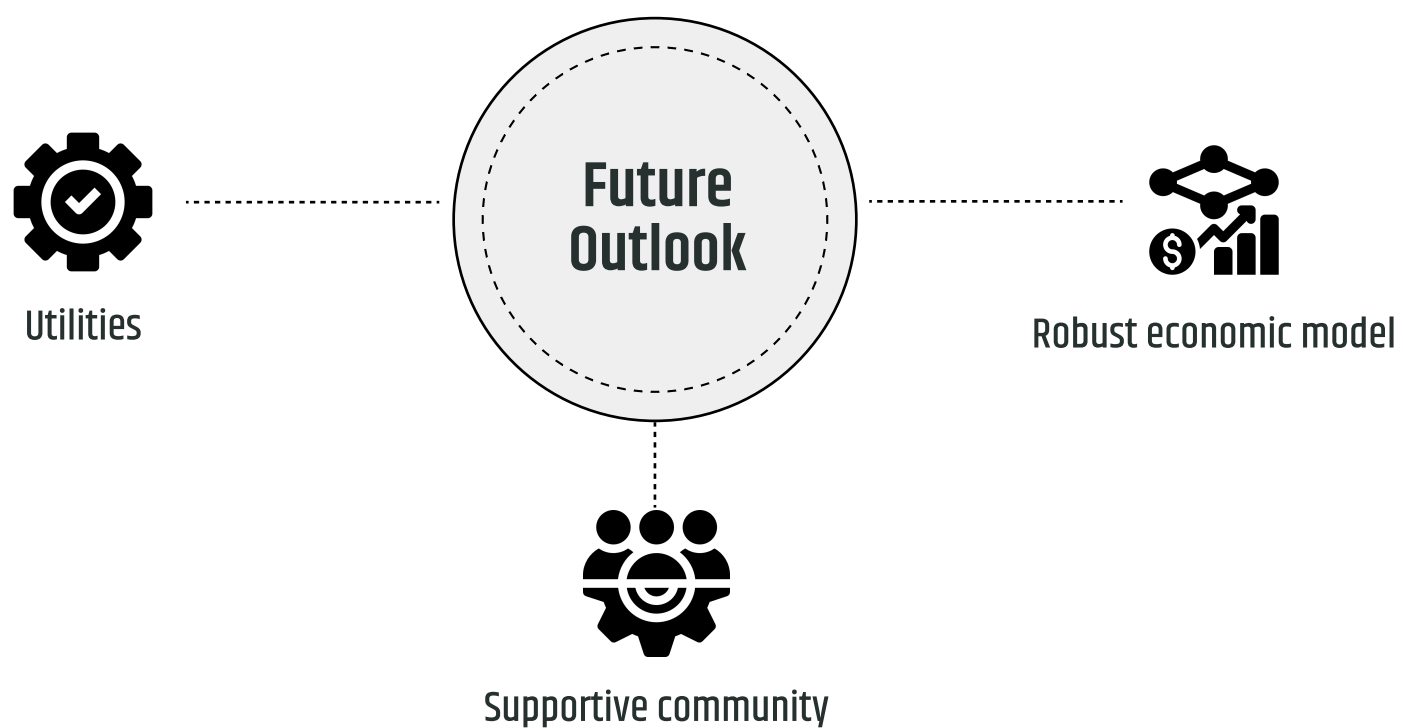


## ECONOMIC MODEL AND FUTURE OUTLOOK

The economic model of the STEN token is designed to promote sustainability, growth, and stability within the Stenix ecosystem. Through mechanisms such as tokenomics, inflationary or deflationary measures, and supply dynamics, the STEN token aims to maintain a balanced and thriving ecosystem that benefits all stakeholders.



As the Stenix project evolves and expands, the STEN token is poised to play an increasingly pivotal role in driving innovation, adoption, and value creation within the blockchain space. With its diverse range of utilities, robust economic model, and supportive community, the STEN token represents a cornerstone of the Stenix ecosystem and a key enabler of its long-term success.



# ROADMAP

## Goal

Creation and development of a decentralized ecosystem based on the Stenix blockchain network, providing a wide range of financial and technological tools for users.



**Q3 2023**

**Initiation of the Stenix blockchain network development**

Start of the Stenix blockchain network development. Integration of key technologies to ensure functionality and scalability.

**Responsible:** Stenix development team



**Q2-Q3 2025**

**STEN token pre-sale launch**

STEN token public pre-sale starts at an early stage with special pricing for the very first participants.

**Responsible:**  
Marketing and sales team



**Q1 2026**

**Token listing on global exchanges**

Listing the STEN token on the world's leading cryptocurrency exchanges to increase liquidity and availability.

**Responsible:**  
Finance department and listing partners



**Q4 2024**

**Stenix blockchain network launch**

Official launch of the Stenix network, building the foundation for the decentralized ecosystem of the project.

**Responsible:**  
Technical team and infrastructure department



**Q4 2025**

**Launch of the Stenix financial platform**

Implementation of the Stenix financial platform with key tools: farming, staking, swap, generation of custom tokens, NFT marketplace, and gamification elements.

**Responsible:**  
Development team and product department

ROADMAP



Q2 2026

Expanding platform functionality

Integration of new tools into the Stenix platform: landing market, voting system, and crowdfunding.

Responsible:

Development team and product department



Q1-Q2 2027

Preparation and Development of a Cryptocurrency Casino

Create infrastructure for a decentralized cryptocurrency casino on the Stenix blockchain.

Responsible:

Development team and strategic partners



Q3-Q4 2026

Implementation of additional tools

Adding new features, including EVM predictions, asset insurance, centralized arbitrage via cross-chain bridges, and tokenization of real assets.

Responsible:

Development team and strategic partners



Q3-Q4 2027

Launch and Scaling of the Cryptocurrency Casino

Full launch of the casino and strengthening the Stenix ecosystem.

Responsible:

Development team and strategic partners

This roadmap represents our commitment to continuous innovation and development, as we strive to create a comprehensive ecosystem that empowers users and drives the adoption of blockchain technology. We look forward to achieving these milestones and shaping the future of decentralized finance and applications with the Stenix project.