



# White Paper: TreasuryAI (\$TAI)

## Abstract

The TreasuryAI (\$TAI) token is a deflationary cryptocurrency built on the Binance Smart Chain (BSC), designed to revolutionize digital finance with innovative mechanisms for automatic burning, fee management, and liquidity provisioning. These features are tailored to sustain the token's economy, drive long-term value, and incentivize active participation within the ecosystem. This white paper outlines the \$TAI smart contract's functionality, security measures, tokenomics, and future development plans, ensuring transparency and community trust.

## 1. Introduction

### Contract Overview

- Name: TreasuryAI
- Symbol: \$TAI
- Total Supply: 1,000,000,000
- Decimals: 18
- Platform: Binance Smart Chain (BSC)
- Website: [TreasuryAI.io](https://TreasuryAI.io)

The \$TAI contract employs robust mechanisms, including automatic token burns, liquidity management, and transparent fee allocation, to support its deflationary model and ecosystem sustainability.

## 2. Ownership and Access Control

The \$TAI contract implements secure access controls, ensuring the integrity and longevity of the token:

- Owner/Admin Role:

- Controls critical functions such as enabling trading, triggering burns, and managing fee exclusions.
- Restricted to reduce vulnerabilities and unauthorized actions.
- Ownership Transfer and Decentralization:
  - Ownership can be transferred or renounced, fostering community-driven governance.
- Admin Control:
  - Ensures administrative oversight with functions restricted to the owner or the contract itself.

### 3. Burn Mechanism

\$TAI features an advanced burn mechanism activated during every transaction, reducing supply and increasing scarcity:

- Burn on Transactions:
  - Buy Transactions: 3% of the transaction amount is burned from the burn pool.
    - For example, in a buy transaction of 1,000 \$TAI tokens, 30 tokens (3%) are burned from the burn pool.
  - Sell Transactions: 6% of the transaction amount is burned from the burn pool.
    - For example, in a sell transaction of 1,000 \$TAI tokens, 60 tokens (6%) are burned from the burn pool.
- Burn Pool:
  - 90% of the total supply is allocated to the burn pool, ensuring a controlled and transparent reduction of tokens.
- Automatic Adjustments:
  - If the burn pool reaches a critical threshold (e.g., 1,000,000 tokens), burn percentages and taxes are reduced to zero.

#### Impact of Burn Mechanism

- Ensures predictable supply reduction.
- Supports potential price appreciation by increasing token scarcity.
- Maintains user fairness by isolating burn processes from individual transactions.

### 4. Proof of Burn: Transparency and Trust

The \$TAI contract integrates blockchain-based transparency with a tracker address and event logging:

- Tracker Address:
  - Manages the burn pool and tracks all tokens allocated for burning.
  - **This tracker address is automatically generated at the launch of the contract by the contract itself, ensuring that no entity or individual has access to it.**
- Burn Events:
  - Each burn triggers a BurnExecuted event, detailing the amount burned and timestamp.
- Event Logging:

- Ensures all burn activities are publicly visible, reinforcing community trust and contract integrity.

## 5. Tokenomics

\$TAI's comprehensive tokenomics are designed to balance deflation, liquidity, and ecosystem growth:

Category	Allocation
Burn Pool	900,000,000
AutoLiquidity Provision	5,000,000
Staking Rewards	5,000,000
Tokens for Sale	90,000,000
Team Tokens	0

- Fee Structure:
  - Buy Fee: 2% (Non-adjustable).
  - Sell Fee: 2% (Non-adjustable).
  - Transfer Fee: 0%.
- Fee Usage:
  - Marketing: 40%.
  - Development: 40%.
  - Liquidity Provision: 20%.

## 6. Liquidity Management

\$TAI incorporates advanced liquidity provisioning mechanisms to ensure stability and tradability:

- Automatic Liquidity Addition:
  - Tokens equivalent to feeCollected are converted into BNB and paired with \$TAI to deepen liquidity pools from the contract's initial balance.
- Liquidity Burn:
  - LP tokens are sent to a dead address, preventing liquidity withdrawal and reducing market volatility.
- Low Slippage Mechanism:

- Gradual token reintroduction into the liquidity pool minimizes volatility and supports stable trading.

## 7. Automatic Parameter Adjustments

\$TAI's smart contract adapts to market conditions, ensuring sustainability:

- Fee Adjustments:
  - Buy and sell fees are automatically reduced to 0% when the burn pool reaches a critical threshold of 1,000,000 tokens left to burn.
- Burn Adjustments:
  - Burn percentages for both buy and sell transactions are set to 0% upon reaching this threshold.

These adjustments ensure the token economy remains balanced while encouraging long-term sustainability and value retention.

## 8. Security Features

Security is a cornerstone of the \$TAI smart contract:

- Reentrancy Protection:
  - Prevents exploits during swaps and liquidity additions.
- Exclusion Controls:
  - Flexibility to exclude specific addresses from fees and burns.
- Ownership Restrictions:
  - Critical functions are protected by onlyOwner and onlyAdmin modifiers, limiting access to authorized entities.

## 9. Events and Transparency

Transparency is ensured through extensive blockchain-based logging:

- Event Logging:
  - Tracks key actions, such as enabling trading, burning tokens, and adding liquidity.
- Public Visibility:
  - Allows the community to monitor contract activities, fostering trust.

## 10. Restrictions

The owner's access is strictly limited to the following actions, ensuring decentralization and security:

- Enable Trading: Allow trading to begin once initial setup is complete.
- Burn Tokens from Buyback: Manage token supply by burning tokens.
- Exclude Addresses: Exclude specific addresses, such as presale participants, from fees and burn triggers.

- Change Ownership: Transfer ownership to another address or entity.
- Renounce Ownership: Completely relinquish control to ensure decentralization.

These restrictions ensure that the owner's powers are limited to essential administrative tasks while safeguarding the contract's autonomy.

## Conclusion

The TreasuryAI (\$TAI) token is an innovative cryptocurrency that leverages cutting-edge technology to deliver a secure, transparent, and deflationary ecosystem. Its advanced burn mechanisms, detailed tokenomics, liquidity management, and security features position \$TAI as a robust investment vehicle. With a focus on community trust and sustainability, \$TAI offers a compelling opportunity in the digital finance landscape.

## For More Information

Visit [TreasuryAI.io](https://TreasuryAI.io) to learn more about \$TAI and join the community driving the future of decentralized finance.