



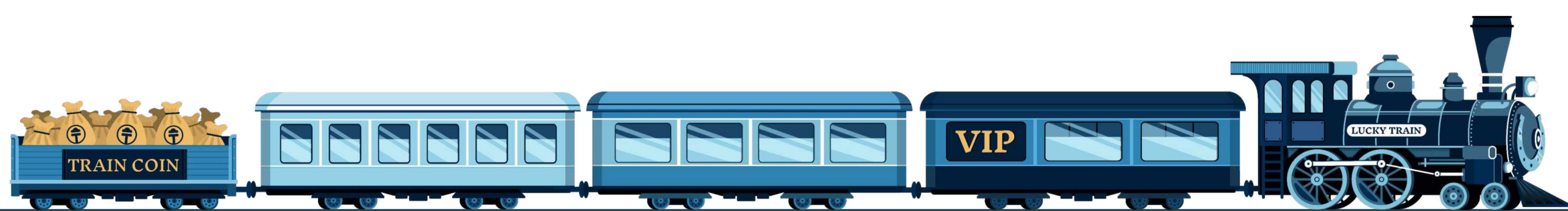
LUCKY TRAIN

WHITE PAPER



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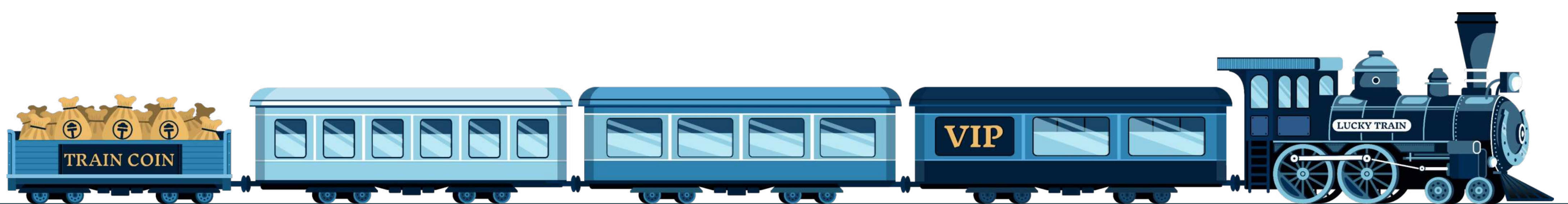


CHAPTER 1

INTRODUCTION

You are holding the document that begins the introduction to the Lucky Train project

This section sequentially explains what the project is, why it was created, and the core idea behind it. It serves as a starting point for understanding everything that follows — from architecture to tokenomics





01

About the Project

Lucky Train is a gamified Web3 project on the TON blockchain, implemented as a mini-application within Telegram, where the process resembles classic staking and is presented as an engaging “journey.” A user buys a ticket (with participation conditions), “boards the train” (funds are locked), and upon completing the trip receives a reward inside the app



At the core of the project lies TrainCoin

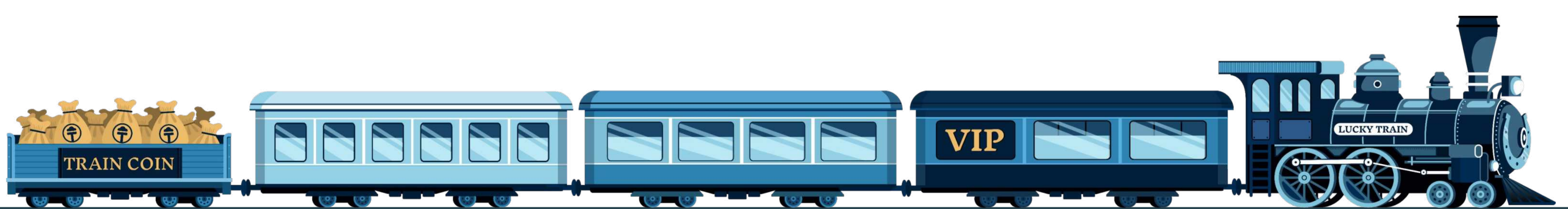
a native token with a fixed supply and a burning mechanism, which gradually reduces the total number of coins in circulation, which may affect their value over time

Deep integration with the Telegram ecosystem enables users to perform all in-game actions — from purchasing a ticket to receiving rewards — **entirely within the messenger**. The native infrastructure and interactive game design allow users to engage effortlessly in a staking-like process without leaving the familiar Telegram interface



Yet behind this simplicity lies a robust technological foundation

Smart contracts automatically process all participation parameters and protect users' digital assets, with all transaction and token-burning data publicly verifiable






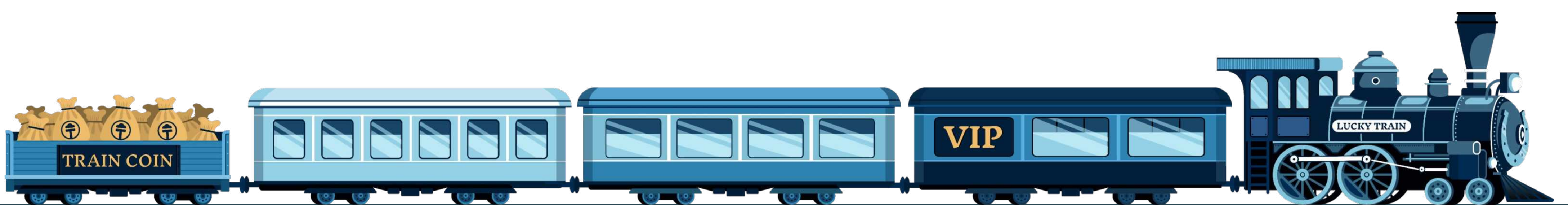
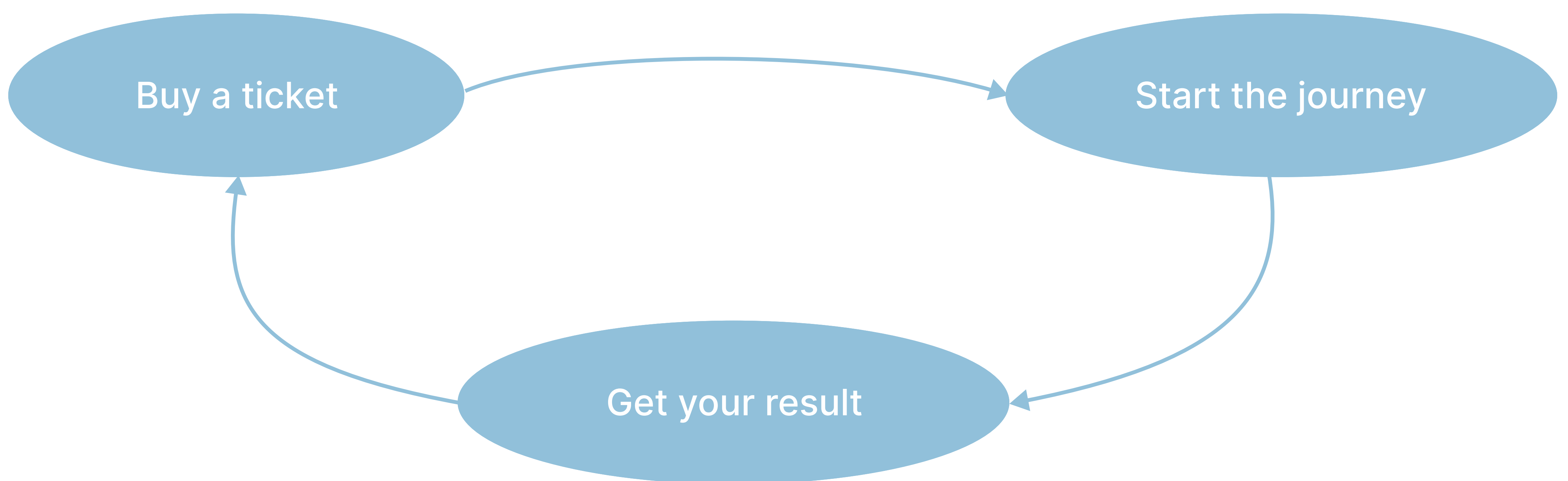
02

Problem – Solution

The Web3 and crypto space is seeing the daily emergence of new digital products and participation models. **However, for most users, this world still feels complex:** technical terms, complicated interfaces, and unfamiliar engagement formats confuse newcomers and even frustrate experienced users

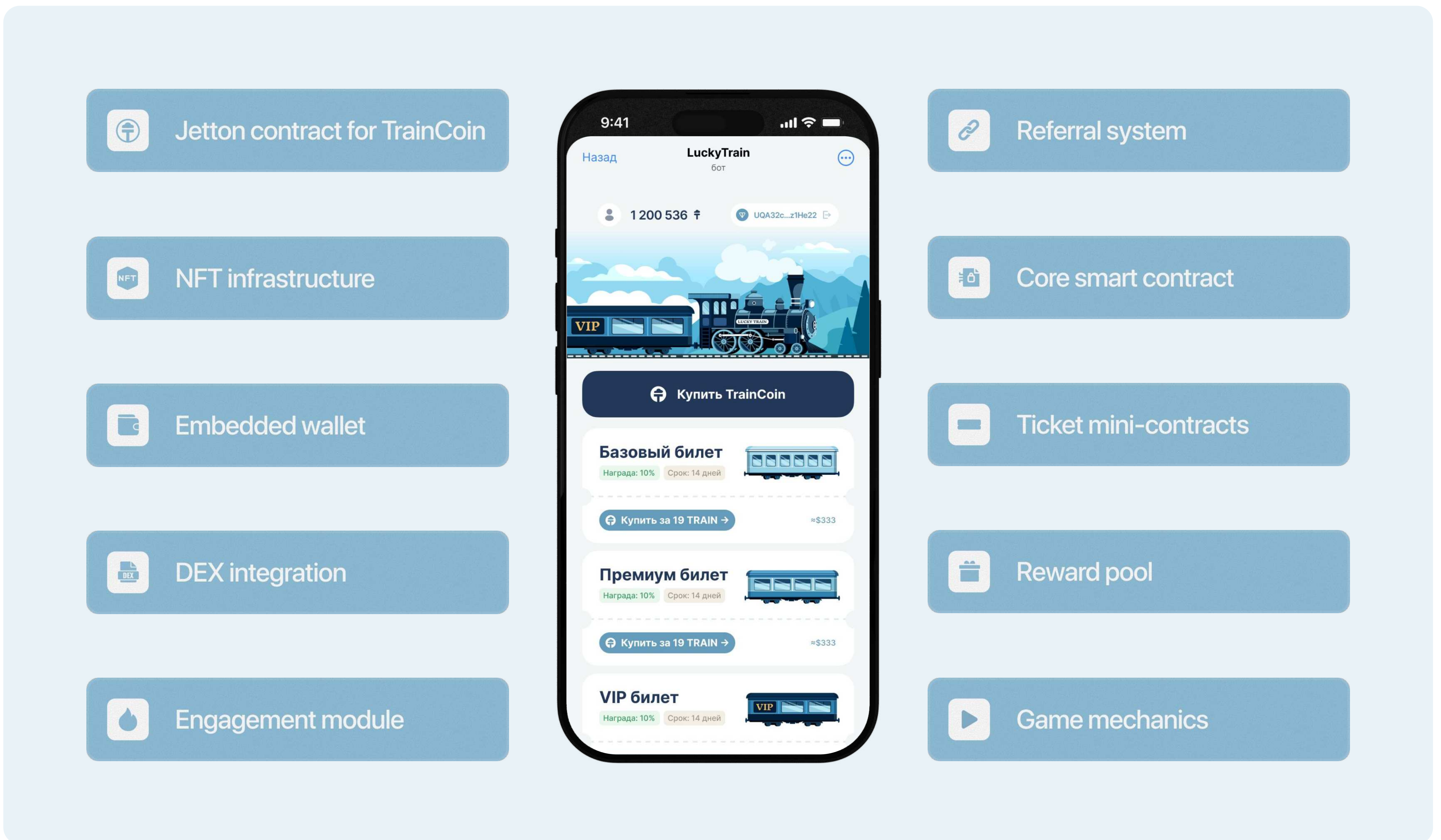
 **Lucky Train is designed to change that**

We turn one of the most popular Web3 mechanisms — **temporary token locking (similar to staking)** — into a fun and intuitive experience





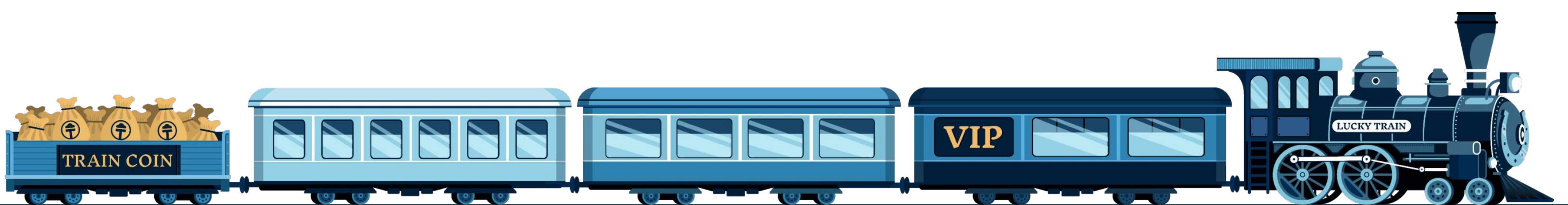
Behind a simple interface lies a powerful infrastructure:



All key project components are integrated directly into the Telegram Mini App
One button — and the entire blockchain engine works for the user

Welcome to Lucky Train!

Jump onboard before the train leaves the station!



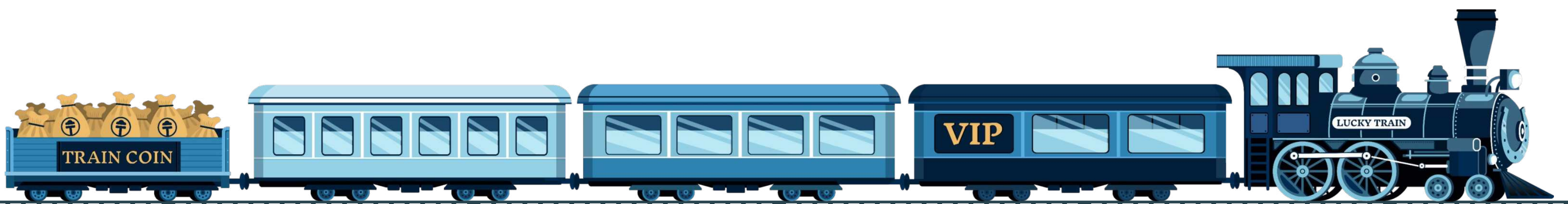


CHAPTER 2

HOW LUCKY TRAIN WORKS

To make the token-locking mechanic simple and engaging for any user, we designed it as an intuitive train journey.

This process is divided into three key stages
— from ticket purchase to reward collection





01

Ticket (Participation Terms)

Access to the Lucky Train system begins with the purchase of a ticket. The ticket acts as your “boarding pass” and gives access to a process similar to staking — locking tokens — while also setting the trip’s core parameters: duration, limits, and expected outcome



What is a ticket and what parameters does it include?

Ticket Classes

To allow participants to choose the most suitable terms, tickets are divided into several classes:

Basic

Short lock-up period and moderate result

Premium

Longer participation with higher rewards

VIP

For users aiming to maximize their journey bonuses

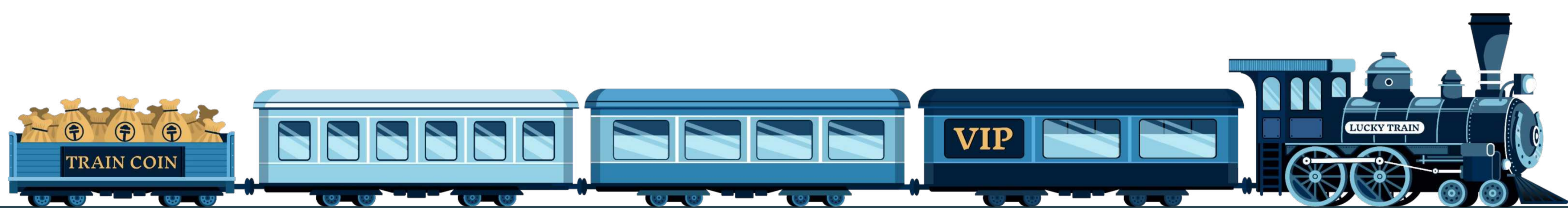
Ticket names and the number of classes may change, but each offers a unique balance of duration, reward, and limits

Ticket Parameters

Regardless of class, every ticket includes a set of key parameters:

Cost

The amount in TrainCoins required to purchase the ticket
The price depends on the expected outcome and trip duration





Lock-up Period

The number of days the tokens will be temporarily locked. The longer the period — the greater the potential reward

Reward Rate

Indicates the multiplier or coefficient by which the final return will be calculated upon completion

Maximum Limit

The cap on how many tokens can be staked with a single ticket

Burn Rate

The percentage of tokens burned during the trip, supporting TrainCoins' deflationary model

Mechanics Highlights

One-time Use

Each ticket is valid for a single journey. Once the participation ends and the result is received, the ticket becomes inactive

Individual Mini-Contract

A unique smart contract is created with each ticket purchase. All conditions are recorded there and cannot be changed, even by project administrators

Immutable Terms

Even if new ticket parameters change in the future, an already purchased ticket retains its original conditions

Trip Access During Pauses in the Operation

Even if ticket sales are temporarily paused, owners of valid tickets can still start their journeys under the terms they purchased

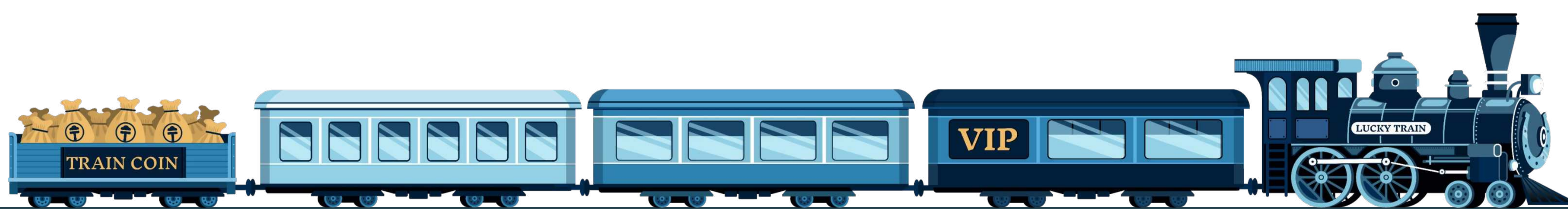
Transparency

All terms are locked in at the time of purchase, so users know the rules and expected outcome in advance



A Lucky Train ticket is your gateway into a game with real outcomes

Choose your class, stake your tokens, board the train — and wait for your reward!





02

Journey (Token Lock-up)

Once the ticket is purchased, the user can start their journey — activating a process in which tokens are temporarily locked under predefined conditions

Using Tokens

The user selects the amount of TrainCoin to be locked, staying within the limits defined by the ticket class. When the journey begins, the following steps occur:

Partial Token Burn

A specified percentage of tokens is burned immediately upon activation. This supports the project's tokenomics by reducing the total token supply

Locking the Remaining Tokens

The remaining tokens are frozen and become inaccessible until the trip duration ends

Automated Process

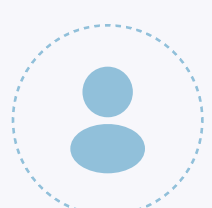
All operations are handled automatically. The journey status can be tracked via the Telegram Mini App

Funds Protection

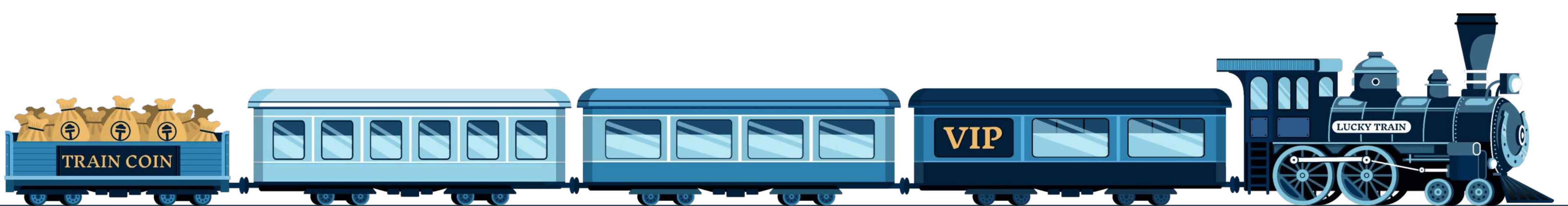
The architecture of Lucky Train ensures that the locked tokens are stored within a dedicated ticket smart-contract — a mini-contract that belongs solely to the user.

This provides a high level of security:

- Tokens are stored separately and not mixed with assets of other users
- They are not used for reward distribution or any other purpose
- Even the project administrators do not have access to these funds



As a result, the ticket stays in the user's hands, and the tokens placed inside it are secure and retrievable only after the journey is complete





03

Arrival (Reward)

As soon as the journey duration ends, the user reaches the “final station”, marking the last stage of the process

Completing the Journey

The user receives the final result, which consists of two parts:

Token Unlocking

The previously locked tokens become available again

Journey Bonus

A reward is granted, calculated based on the ticket parameters



All values are displayed in the Telegram Mini App

A single button tap is enough to end the journey and view the final outcome

Ticket Lifecycle

After the journey concludes, the ticket is automatically closed
A new ticket must be purchased to start another trip

Reward Pool

This is a dedicated pool where tokens accumulate for the purpose of reward distribution after journeys are completed

Pool funding sources include:

Initial allocation

A portion of tokens from the total supply is to be allocated to the reward pool at project launch

Ticket revenue

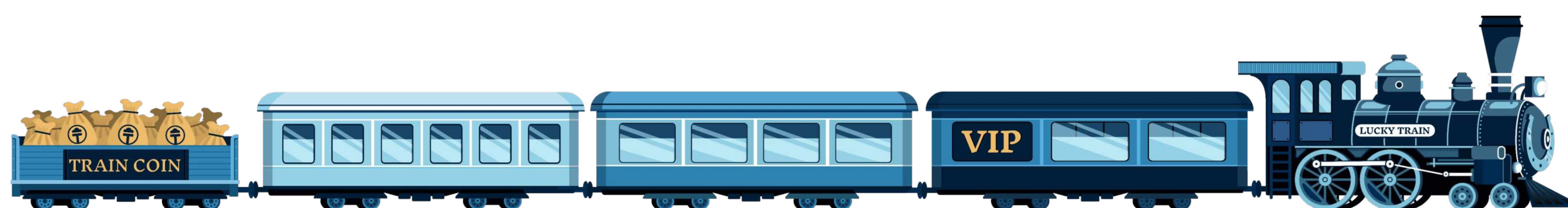
A defined share of each ticket purchase regularly replenishes the pool

Additional contributions

The project team may allocate extra funds to the pool as needed to maintain its stability



Even if the reward pool temporarily lacks sufficient funds, **user tokens remain fully safe**, and the reward will become available in full as soon as the pool is replenished





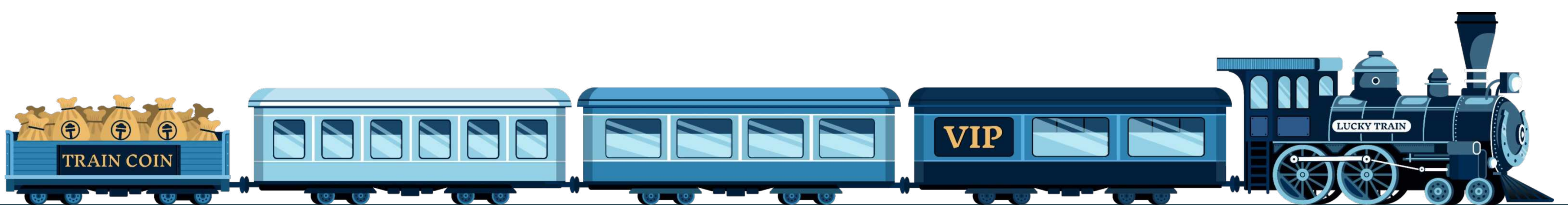
CHAPTER 3

PROJECT ECONOMY

Lucky Train builds its economic model around **TrainCoin**, the project's core token used for purchasing tickets and participating in journeys

The mechanics are designed with a focus on **long-term sustainability**, encouraging user engagement, maintaining token value, and ensuring transparent circulation and distribution

Below is a detailed look at **how TrainCoin works** — and why its properties make the project's economy balanced and viable





01

TrainCoin Token

Fixed Supply

TrainCoin is issued in a limited quantity — **10 billion tokens total**. There will be no additional emission, eliminating inflation risks and creating a natural scarcity. As the number of users and demand grows, this may contribute to increased interest in the token and help preserve its value for holders

Built on TON Blockchain

TrainCoin is implemented as a Jetton-compliant smart contract on the TON (The Open Network) blockchain, which ensures:

Fast transactions

With minimal fees

Transparency

Anyone can verify token issuance, transfers, and burning history

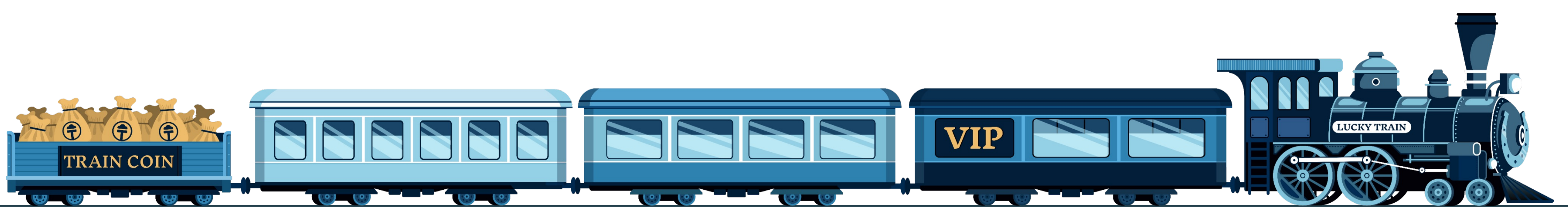
Compatibility

The token integrates seamlessly with TON-based services like DEXs, wallets, and Telegram mini-apps

Deflationary Potential

To maintain economic stability, TrainCoin includes burning mechanisms in the following cases:

- When buying a ticket
- When starting a journey (locking tokens)





Token burning reduces the total supply in circulation, increasing each holder's relative share. This can foster a sense of scarcity which, under rising demand, may strengthen the perceived value of the token and incentivize long-term use

The burn percentage is not fixed — the project team may adjust it in response to strategic or market conditions to maintain the right balance between scarcity and availability

Role in the Ecosystem

TrainCoin performs multiple key functions to support the application's operation:

Ticket purchase

Tickets can only be bought using TrainCoin

Journey participation

Tokens are locked for the duration of the ticket

Reward calculation

Payouts are made in TrainCoin upon trip completion



TrainCoin ties together all ecosystem processes and plays a central role in the project economy

Its limited supply and deflationary mechanics support economic stability and maintain user interest as activity scales up

Accessibility and Liquidity

TrainCoin is fully integrated into the Lucky Train Mini App, offering users a convenient way to manage all token-related actions:

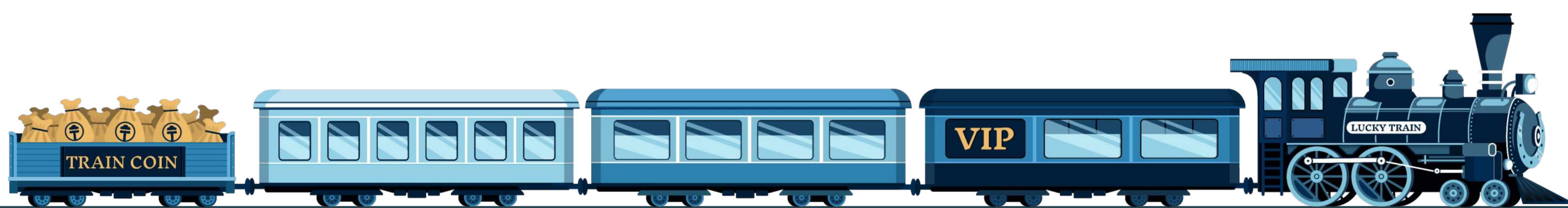
Buy and sell via built-in DEX — fast and easy transactions directly in Telegram

Send and receive using the embedded wallet — instant P2P transactions

View full transaction history in a clear and user-friendly interface



This makes interacting with TrainCoin simple and intuitive — no need to leave Telegram or use external services





Token liquidity is supported by several key mechanisms:

Liquidity pools on DEXs — TrainCoin will be available for swapping via decentralized exchanges, ensuring active circulation

Planned listings on centralized exchanges (CEXs) — These listings will expand access and allow a wider audience to access the token

Built-in usage within project mechanics — The token's role in ticket purchases, journeys, and reward distribution creates consistent demand and sustained utility inside the Application



Thus, TrainCoin remains easily accessible, actively used, and its liquidity is supported both technically and economically

Functional Purpose of the Token

TrainCoin is a utility token intended for full participation in the Lucky Train ecosystem.

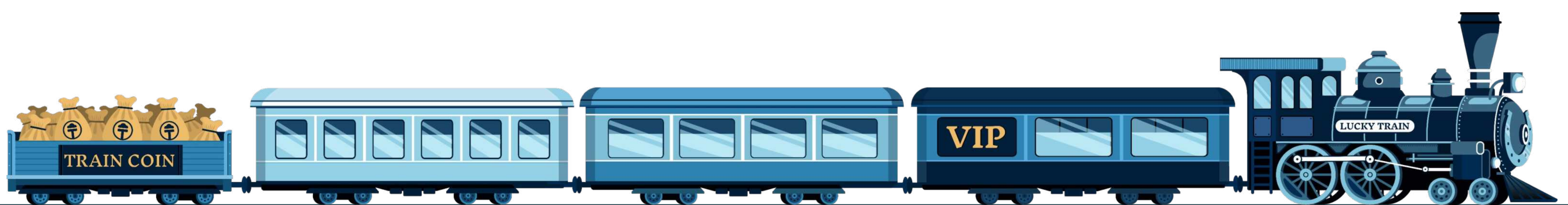
Its primary purpose is to power key mechanics:

- Ticket purchases
- Participation in journeys (token lock-up)
- Reward payouts

TrainCoin is not an investment instrument and does not grant any governance rights over the project



It's not just a token — it is the foundation of the entire Lucky Train system, uniting game mechanics, internal economy, and the community into one cohesive digital space





02

Tokenomics

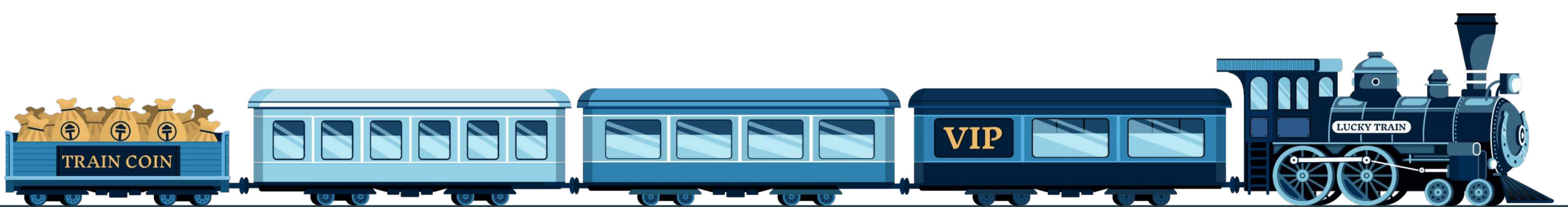
To support sustainable ecosystem growth, TrainCoin distribution is carefully balanced across key areas. This ensures a reliable economic model, incentivizes user engagement, and preserves the token's long-term value

Token Distribution

Share	Category	Comment
30%	Reward Pool	Main reserve for distributing rewards after completed journeys
40%	Liquidity & Open Market	Tokens for DEX liquidity pools, CEX listings, and general market access
10%	Marketing & Partnerships	Promotions, referral programs, and audience growth
10%	Team & Advisors (with vesting)	Incentives for key project contributors. Vesting over 1–2 years
10%	Reserve (for future development)	Additional expenses and new directions (e.g., NFT tickets, feature upgrades)



This distribution forms a sustainable economy that aligns user interests with the project's long-term goals





Token Flow During Ticket Purchase

Ticket purchases play a central role in the project's economic cycle

The tokens contributed by users during ticket purchases are allocated as follows:

Burning

A defined percentage is permanently eliminated, reinforcing the deflationary model

Reward Pool Refill

A portion is added to the reward pool used for payouts upon journey completion

Additional Expenditures

If needed, the remaining amount can be used for operational expenses or team support

*The exact proportions are determined by the project team and may be adjusted in response to market conditions
This system ensures a steady inflow into the reward pool and supports the supply-demand balance.*

Ticket Pricing and Limit Dynamics

Ticket prices (in TrainCoin) are not fixed and may change based on market conditions and project goals:

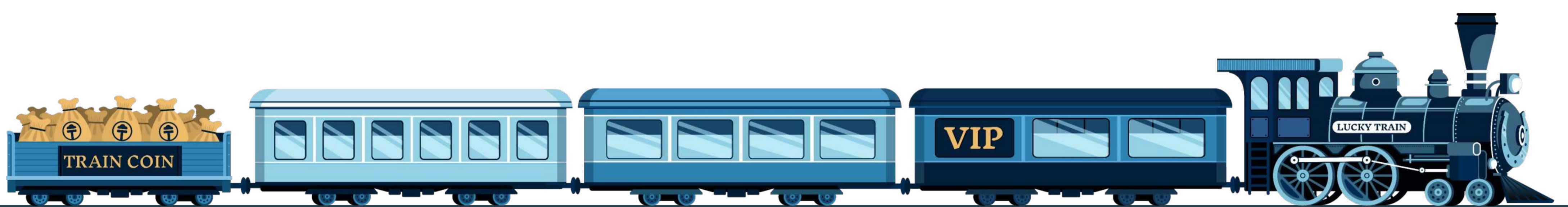
- If demand increases, prices may be raised to limit excessive bonus distribution
- If new users need to be attracted, prices may be lowered to ease entry

Each ticket class also has lock-up limits, capping the maximum stake per ticket. This helps avoid imbalances among users and encourages more equitable reward distribution

Additionally, the reward percentage is adjustable. The project team may revise it over time to maintain a balance between user appeal and the reward pool's sustainability



As a result, Lucky Train's tokenomics provides a solid foundation for long-term stability
Thoughtful token allocation, flexible pricing for tickets, and a reliable reward pool funding system create a balanced structure that supports both growth and user satisfaction





03

Sustainability Mechanics

The economic model of Lucky Train is designed to ensure long-term project stability and balanced participation for all types of users

The project's core mechanisms are interconnected and reinforce one another:

- **Fixed Token Supply and Deflationary Tools**

A limited token supply combined with regular burning supports value retention and protects against inflationary pressure

- **Flexible Management of Ticket Parameters**

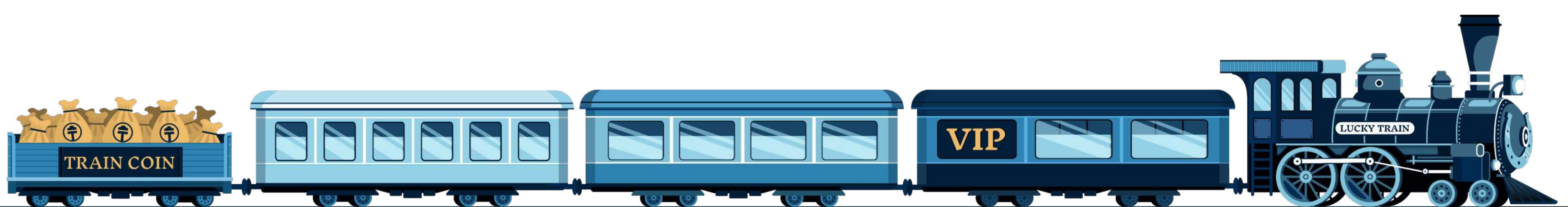
The ability to adjust pricing, lock-up limits, burn rates, and reward percentages allows the project to adapt to changing conditions while maintaining a balance between user engagement and economic sustainability

- **Reward Pool**

A transparent reward system that is consistently replenished through ticket sales and other sources

- **Telegram Mini App Integration**

Makes project participation simple and accessible to a broad audience, reducing entry barriers and boosting ecosystem growth





The Role of Token Locking in Maintaining Balance

Token locking — a mechanism resembling staking — is a central pillar of Lucky Train's economy. **It fulfills several critical functions:**

- **Reduces Circulating Supply**

Tokens are temporarily removed from circulation, lowering availability and creating scarcity — particularly impactful during periods of high user activity

- **Supports Reward Pool Stability**

Thanks to locked tokens and predictable journey durations, reward distribution load is smoothed, improving the system's reliability

- **Boosts User Engagement**

Locking tokens encourages long-term participation, strengthens community cohesion, and discourages short-term speculation

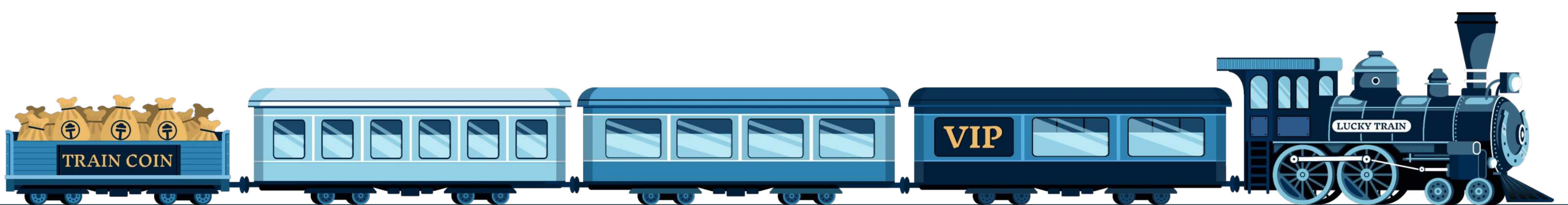
The Lucky Train economy is a well-structured and interconnected system where each component strengthens the others. Fixed token supply, deflationary mechanics, adjustable ticket parameters, and consistent reward funding form a **resilient foundation** capable of adapting to market dynamics

Thanks to this architecture, the project remains **flexible, sustainable, and growth-oriented**. Users benefit from a transparent and predictable mechanism where their funds are protected, and results depend on their level of participation

The deflationary model, dynamic tokenomics, and **seamless access via Telegram Mini App** create favorable conditions for onboarding new users and reinforcing interest among existing ones



Lucky Train is not just a platform for locking tokens — **it's a complete ecosystem backed by a sustainable economic model**





04

Engagement and Distribution

The Lucky Train economy is built not only on internal token mechanics but also on **how users are onboarded and engaged**. At the core of the project's growth strategy lies an **off-chain engagement system** embedded within the Telegram Mini App, complemented by a **referral system** that amplifies organic spread through meme culture and social connections

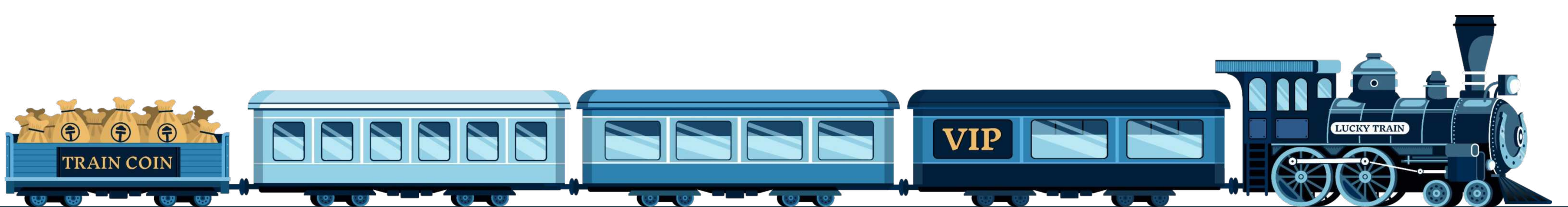
Onboarding

Every user who enters the Lucky Train Mini App is guided through an infrastructure aimed at educating and motivating them. The goal is not just to initiate a journey, but to explain, involve, and inspire participation

This onboarding system is implemented entirely inside Telegram and includes:

- A brief introduction to the project and the “train journey” metaphor
- Explanation of how the ticket, token lock-up, and rewards work
- Visual elements and helpful prompts
- A step-by-step flow toward journey activation

No websites. No registration. Just Telegram, the Mini App, and a format anyone can understand.





Meme Culture as an Engagement Layer

Lucky Train uses meme culture not as decoration, but as a strategic engagement framework. It's built around meme symbols that are deeply embedded in the Telegram and crypto community environments

The project unites two powerful crypto memes:

- **Jump on the Train** — a symbol of early adoption while the project is gaining momentum. It evokes the feeling that “the train is leaving” and decisions must be made quickly
- **To the Moon** — a metaphor for explosive growth, representing Lucky Train’s potential as a hype-driven asset

These memes are more than visuals — **they shape the tone and logic of communication:**

- “You’re either on the train or standing on the platform — choose.”
- “Don’t miss your chance while Lucky Train is still gaining speed.”
- “Jump on the Train, We're Going to the Moon!”

These are not slogans — they’re part of the environment users immerse themselves in

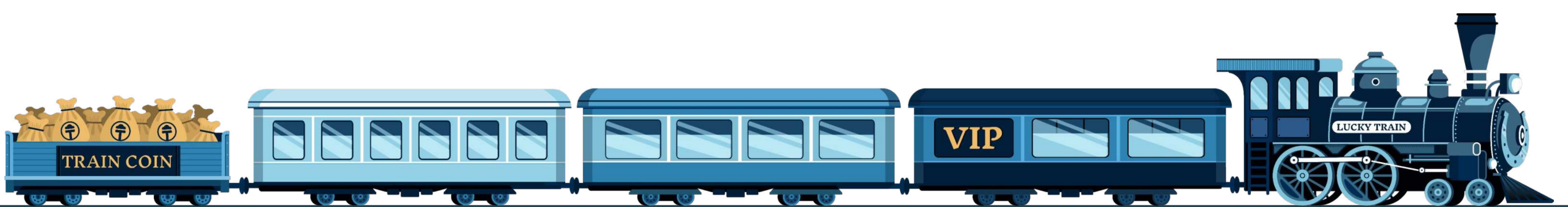
Meme Culture in Lucky Train:

- Replaces complex terms with visual metaphors, making communication simple and accessible
- Builds emotional identity for the project
- Increases engagement and the desire to be “part of the movement”

This makes the brand recognizable, viral, and culturally relevant to Web3 users who value humor, speed, and clarity



It's not just about visuals — it's a **social distribution mechanic** that often outperforms paid advertising. A user doesn't just “refer” someone — they become part of a movement worth joining.





Referral System

Users can share their personal referral link to activate the referral mechanism. When someone uses the link and buys a ticket, the inviter receives a reward in TrainCoin, based on a percentage of the ticket purchase

The logic is off-chain but tightly connected to on-chain activity:

- The more users that join, the higher the demand for TrainCoin
 - Referral rewards create an additional use case for the token
 - All of this strengthens real demand cycles, not artificial growth
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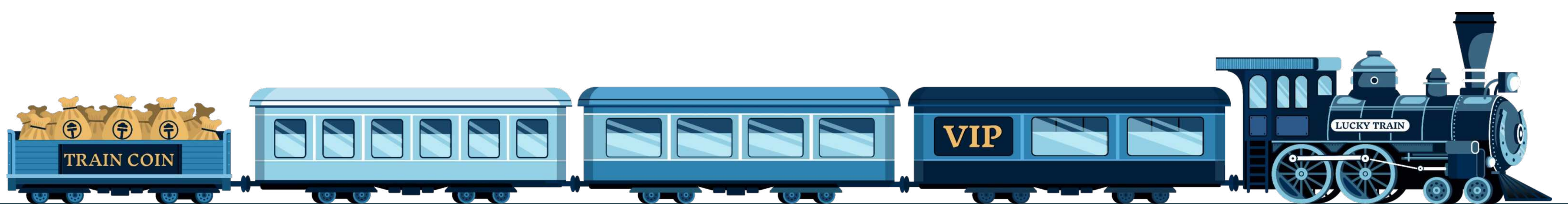
Economic Feedback Loop

The referral system and engagement mechanics:

- Generate inbound traffic into journeys
- Create incentives for retention and repeat participation
- Build baseline demand for the token — even with minimal marketing budget
- Enable scalable project growth without centralized marketing expenses

The Lucky Train engagement system is not just about traffic or referral bonuses. It's a comprehensive growth model, built on native Telegram integration, meme culture, and user-driven virality. Instead of aggressive ads — a movement people want to join. Instead of complexity — **a clear and intuitive path embedded in a Mini App**

This type of engagement doesn't simulate activity — it creates **real demand**, stronger retention, and organic expansion. Lucky Train scales **not through pressure**, but because the community spreads the movement itself.



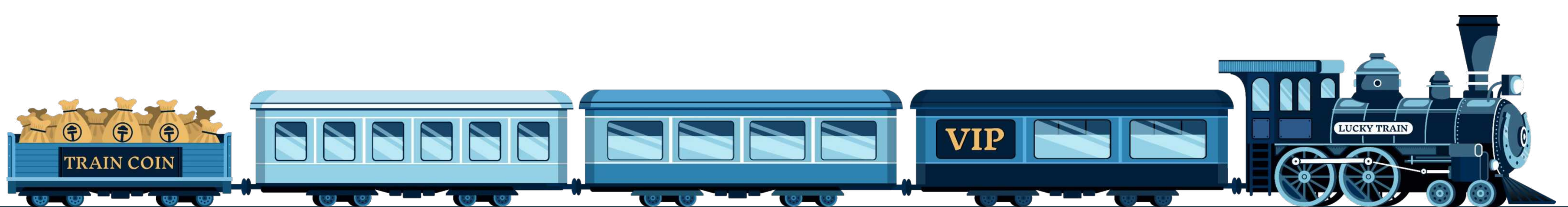


CHAPTER 4

TECHNICAL ARCHITECTURE

This section presents the structure of Lucky Train **from a technical perspective**. We walk through how the system is built, what components it includes, how they interact with each other, and the roles each of them plays.

The section provides a foundation for understanding the logic of smart contracts, fund distribution, and the project's integration with Telegram and the TON ecosystem





01

System Overview

Lucky Train is a Web3 application built on the TON blockchain and delivered as a native Telegram Mini App. Its architecture is designed with a focus on **security, modularity, and scalability**, enabling both straightforward user interaction and complex token distribution logic

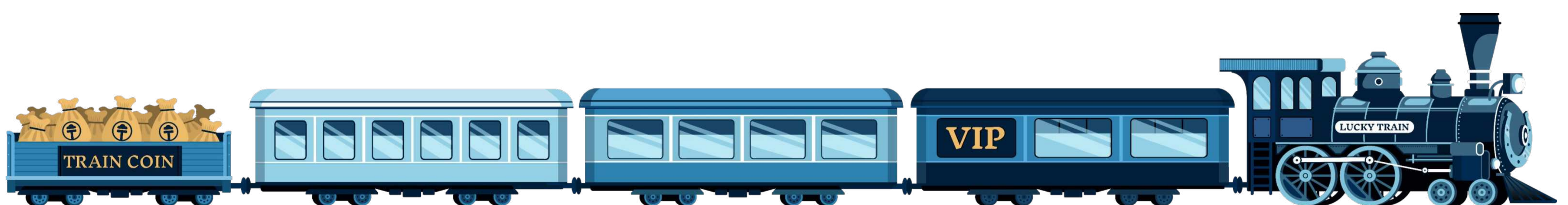
The core concept of Lucky Train is to turn the temporary locking of tokens into an engaging train-themed journey. Users purchase a ticket and receive a reward upon reaching the final destination

Behind this metaphor lies a robust Web3 infrastructure:

- **Smart contracts written in FunC**, handling the logic of tickets, journeys, and fund distribution
- **TrainCoin**, a Jetton-standard utility token that powers the entire project economy
- **Telegram Mini App interface**, giving users full access to the platform without leaving the messenger
- **Isolated ticket architecture**, where each ticket is deployed as an independent smart contract, ensuring maximum security and autonomy



This architecture combines a smooth and intuitive front-end experience with a reliable on-chain backend and allows for seamless scaling as the platform grows





02

Key Components

Lucky Train is built on a modular system architecture, where each component has a clearly defined function. Together, they ensure a reliable, scalable, and secure infrastructure tailored to both crypto-savvy users and the broader Telegram audience

Journey Smart Contract

- Stores parameters for all ticket classes
- Deploys new tickets as independent smart contracts
- Manages the reward pool, team balances, and access roles
- Supports an emergency pause mechanism to temporarily halt new purchases

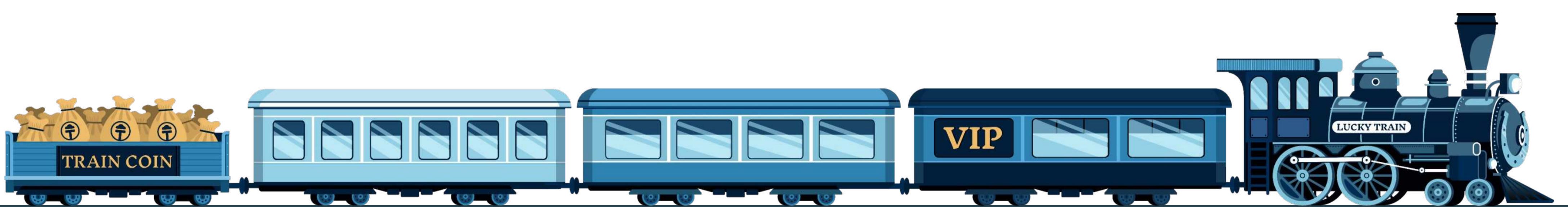


This contract implements logic similar to traditional staking mechanisms, implementing fixed lock-in periods

Ticket Contracts

Each ticket is a standalone smart contract containing:

- Individual journey parameters (duration, reward, cap, burn rate)
- Owner address and their Jetton wallet
- Activation status, timestamps, and token lock data





Tickets operate in isolation, ensuring:

- Immunity to failures in other tickets
- Transparent enforcement of ticket terms
- Protection from reactivation or double participation

TrainCoin Jetton (TEP-74)

The internal token of the platform, used for:

- Ticket purchases
- Locking tokens for the journey period
- Reward distribution upon completion

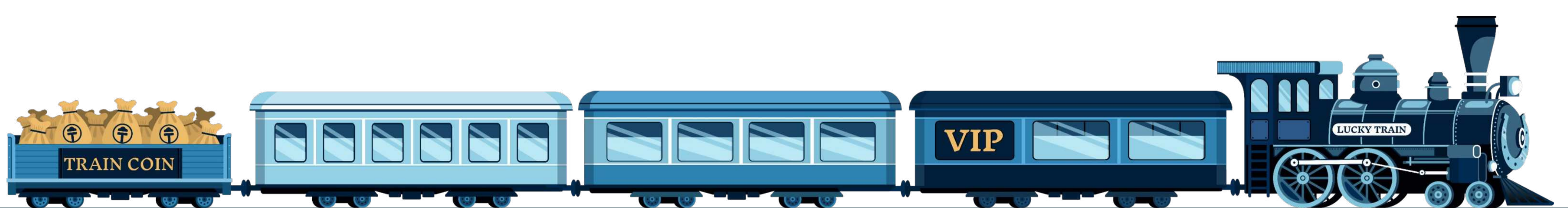


TrainCoin follows the TEP-74 standard and includes a built-in deflationary mechanism, burning a portion of tokens with each interaction

Telegram Mini App

The Lucky Train interface functions entirely within Telegram as a Mini App, offering:

- Seamless onboarding without registration
- TON wallet connection via TON Connect
- Ticket selection, activation, journey tracking, and reward claiming
- All actions without leaving the messenger





Built-in TrainCoin Jetton Wallet

Each user receives a dedicated Jetton wallet with:

- Send/receive TrainCoin functionality
 - Transaction history
 - Automatic Mini App integration
 - Usage restricted to the Lucky Train ecosystem
-

DEX Integration (STON.fi)

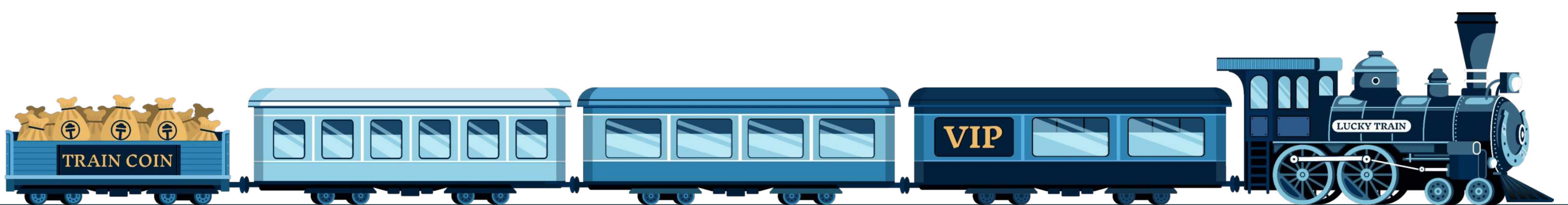
Integrated with the STON.fi decentralized exchange, enabling:

- In-app token swaps (TrainCoin ↔ TON)
 - Liquidity access without leaving Telegram
 - Ensures fair market-based pricing when buying and selling tokens
-

Role-Based Access System

Access is divided as follows:

- Owner: Full control over contract configuration (but no access to user assets)
- Managers: Configure ticket parameters and distribution logic
- Users: Interact only with the application according to tickets they hold





03

Work Mechanics

Lucky Train employs a clear three-step logic for user interaction. The process is designed as a "journey," where tokens are locked for a specified period, after which the user receives rewards according to the ticket's conditions. The mechanics resemble staking but are presented in a gamified and visually straightforward manner

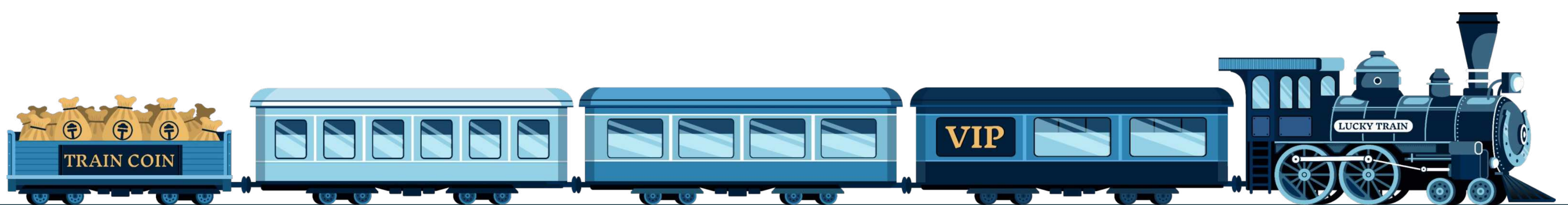
Ticket Purchase

The journey begins with selecting a ticket via the Telegram Mini App
Each ticket includes preset parameters:

- Journey duration (in days)
- Expected reward percentage
- Maximum lockable token amount
- Burn percentage upon activation

When a ticket is purchased:

- Payment is made in TrainCoin
- A new individual smart contract is deployed for the ticket
- Token distribution is triggered automatically:
 1. A portion goes to the **reward pool**
 2. A portion goes to the **team balance**
 3. A portion is **burned permanently**





Journey (Token Locking)

After purchasing a ticket, the user starts the journey by locking a chosen amount of TrainCoin (within the ticket limit).

During activation:

- The specified **burn percentage** is applied immediately
- The remaining tokens are **locked** for the duration of the journey
- All logic is **immutably recorded** in the smart contract
- Journey status is displayed in real-time in the Mini App



Each journey is tied to its own smart contract, ensuring complete isolation and security of funds

Arrival and Rewards

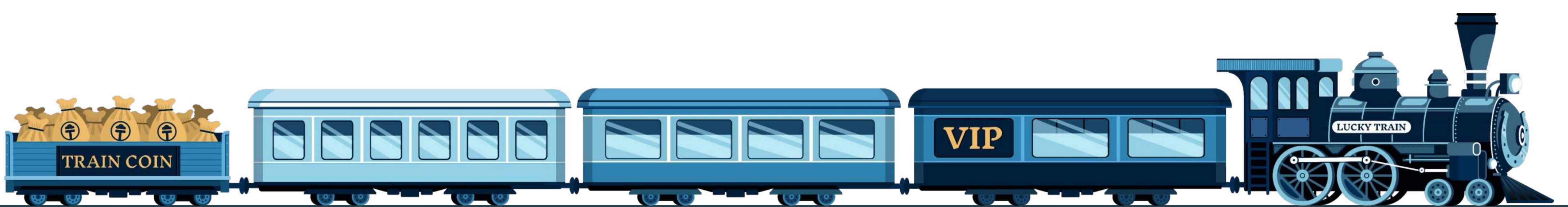
At the end of the journey period, the user can finalize the ticket via the Mini App. If the journey is not completed within 90 days after its end, the user's tokens may be permanently locked inside the contract. The project is not responsible for any losses if the user fails to unlock the funds within this period

Upon completion:

- Locked tokens are **unlocked**
- Rewards are **distributed** based on the ticket terms
- The ticket is automatically **closed and deactivated**



Rewards come from a pre-funded reward pool, which is regularly replenished through ticket purchases





Smart Contract Architecture

The Lucky Train contract system is written in FunC and follows a separation of concerns principle. A central contract handles global parameters and logic, while each ticket is deployed as an autonomous smart contract, ensuring scalability, security, and independence

Main Journey Contract

This contract manages:

- Configurations for all ticket classes
- Token distribution parameters
- Reward pool and team balances
- Role-based access control (owner and managers)
- Deployment of individual ticket contracts

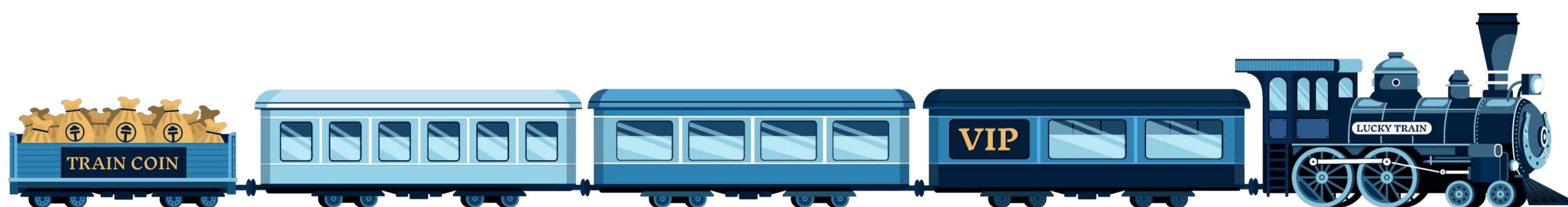
Key features:

- All function calls use internal messages only, preventing external calls
- Includes a pause mechanism to temporarily block new operations without affecting active journeys

Ticket Smart Contracts

Each ticket is deployed as a standalone smart contract that includes:

- Hardcoded parameters: duration, reward, limits, burn percentage
- Binding to a specific wallet address (owner)
- A dedicated Jetton wallet for token interactions
- Status tracking for journey initiation and completion





Ticket contract behavior:

- Accepts and locks tokens until the journey ends
- Cannot be reactivated or reused
- Only the owner can claim rewards
- Auto-destructs upon journey completion

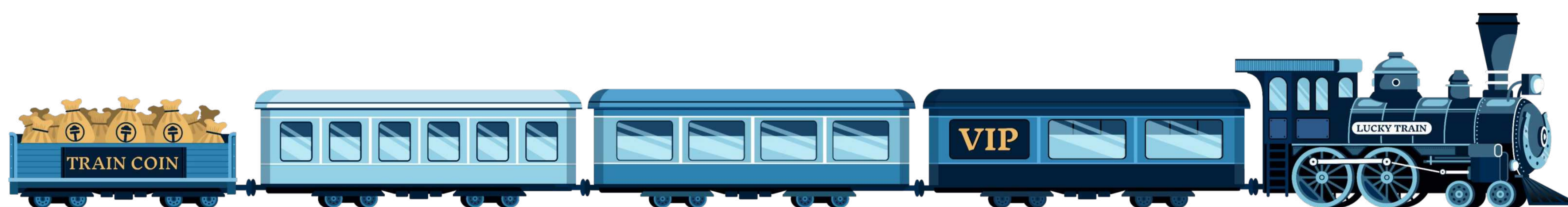
Security & Isolation

Contract-level protection mechanisms include:

- **Logic isolation:** failure in one ticket does not affect others
- **“awaitingResponse” flag:** blocks repeated calls during processing
- **Address whitelisting:** only approved Jetton wallets and verified users are allowed
- **Bounce and error handling:** prevents state changes on failed transactions
- **Strict role enforcement:** access rights are clearly separated between owner, managers, and users

Token Role and Distribution

TrainCoin is a functional Jetton token compliant with the TEP-74 standard. It serves as the sole unit of account across the entire Lucky Train ecosystem — used for purchasing tickets, activating journeys, and distributing rewards. The token also supports a deflationary mechanism that underpins the project's internal economy





Core Functions of TrainCoin

TrainCoin is used at all stages:

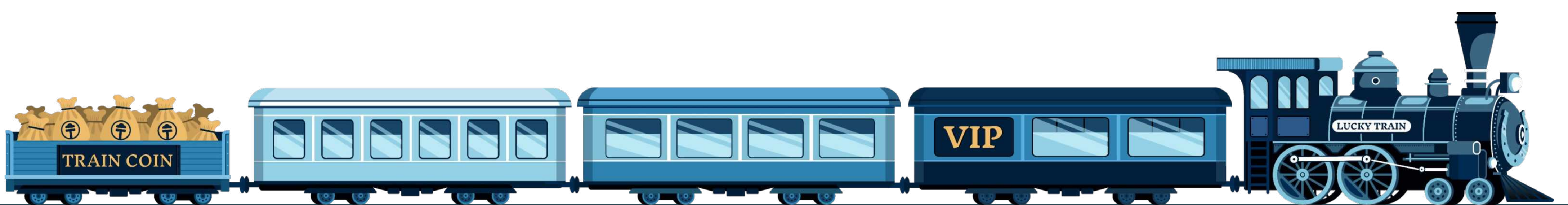
Stage	Token Usage
Ticket Purchase	Used to pay the ticket price
Journey Activation	Temporarily locked for the journey period
Reward Calculation	Rewards are paid in TrainCoin
Burning Mechanism A	A portion of the tokens is burned at each stage

Token Distribution During Ticket Purchase

When a user purchases a ticket, TrainCoin is automatically distributed across several directions:

- **Burning** – A fixed percentage is permanently destroyed, reducing total supply and supporting the deflationary model
- **Reward Pool** – A portion is allocated to the pool used for post-journey payouts
- **Team Balance** – A share is transferred to a service wallet to cover operating and technical expenses

These percentages are configurable by the project owner or assigned managers





Burning on Journey Activation

In addition to the initial distribution, tokens are also burned during journey activation:

- The burn percentage defined in the ticket is applied to the locked amount
- This reduces circulating supply and reinforces scarcity
- The process is automatic and fully recorded on the TON blockchain

Deflationary Logic

By enforcing token burns at both entry points — purchase and activation — TrainCoin operates as a naturally deflationary asset, characterized by:

- Gradual reduction in overall token supply
- No new emissions
- Incentives to hold the token long-term
- Support for a self-sustaining project economy

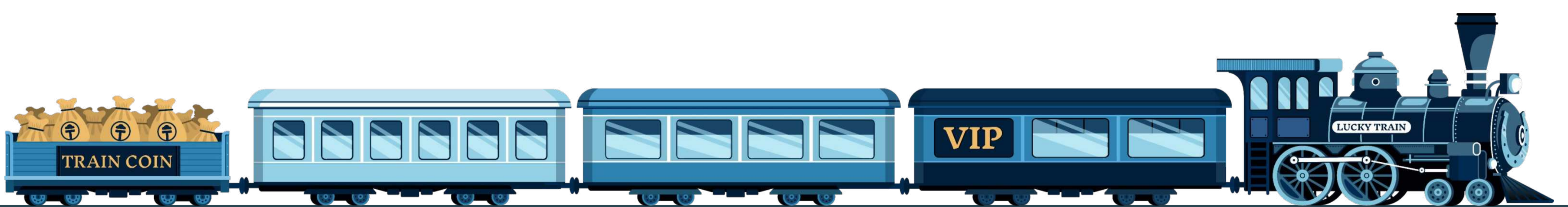
Integration with Telegram Mini App

The Lucky Train platform is fully implemented as a **Telegram Mini App**, offering users a smooth, accessible, and intuitive Web3 experience. All interactions happen **directly inside Telegram**, removing traditional entry barriers to blockchain-based systems and making the mechanics understandable even for beginners.

Full Web3 Interface Inside Telegram

Through the Mini App, users can:

- View available ticket classes
- Select, purchase, and activate a ticket in just a few taps
- Track journey progress (duration, reward status)
- Complete the journey and claim rewards — all without leaving the chat





Secure Login via TON Connect

All token operations require authentication through TON Connect, enabling:

- Support for major wallets like Tonkeeper, Tonhub, and Telegram's native wallet
- Verified actions (purchases, transfers, reward claims) via digital signature
- Private keys remain fully under the user's control, ensuring asset security

Built-in TrainCoin Jetton Wallet

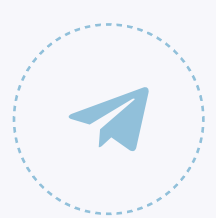
Each user has access to an integrated Jetton wallet with:

- Automated token reception after journey completion
- Peer-to-peer TrainCoin transfers to other users
- Full transaction history, including purchases, locks, rewards, and transfers
- Full functionality inside the Lucky Train Mini App — no manual setup required

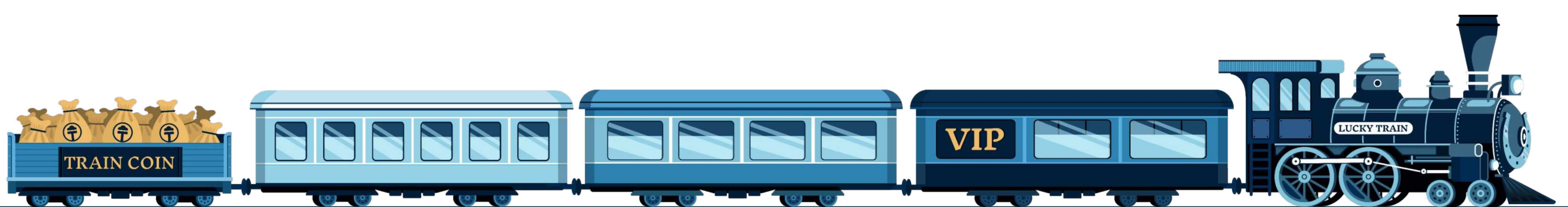
DEX Integration (STON.fi)

Lucky Train includes a built-in token swap interface powered by the STON.fi decentralized exchange:

- Users can buy and sell TrainCoin **directly within the Mini App**
- Liquidity is sourced from the STON.fi pool on TON
- Participation is possible without pre-owned tokens or external services



By embedding all core features inside Telegram, Lucky Train delivers a **seamless Web3 experience** — no browser tabs, no extensions, no crypto expertise required





Security

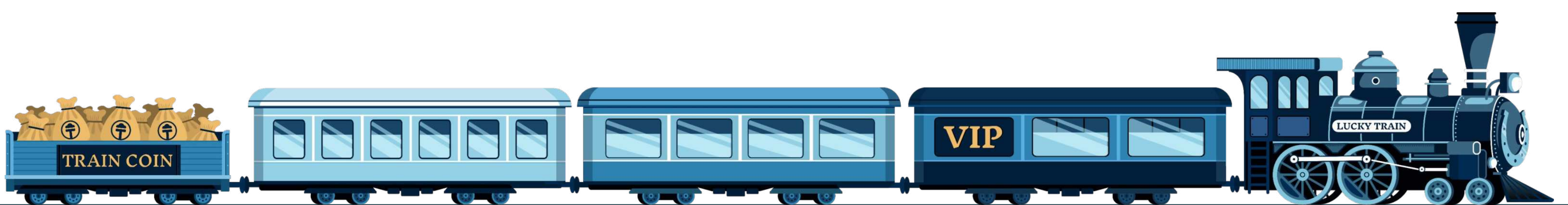
Lucky Train applies a **comprehensive, multi-layered security model** covering every aspect of the system — from smart contract design to access control. The architecture prioritizes isolation, role segregation, and defense against external attack vectors

Architectural Protection

- **Each ticket** is deployed as a separate smart contract, isolated from others
- A failure in one ticket cannot impact active or future journeys
- Business logic is split into **minimal functional modules**, reducing the blast radius in case of an error

Access Control

- The system uses a **role-based model**:
- Owner:
 1. Can assign managers
 2. Can modify global ticket class parameters
 3. Can manage token distribution configurations
- Manager (delegated by the owner):
 1. Can adjust reward rates, durations, burn percentages, and limits
 2. Can modify distribution between the reward pool, burning, and team balance
- User:
 1. Can activate journeys
 2. Can claim rewards after completion
 3. Has full control over their own funds





Internal Messaging

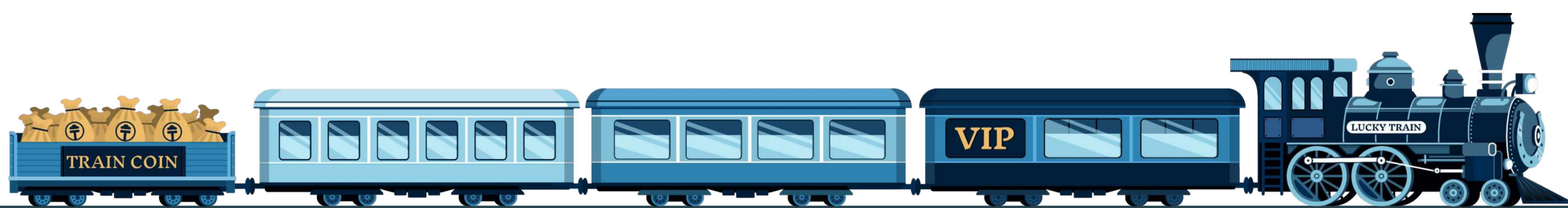
- All smart contract calls are executed using **internal messages only**
- This eliminates the possibility of **external calls**, protecting against **replay** and reentrancy attacks
- **Bounced messages** are properly handled and do not affect contract state

Control Mechanisms

- Each ticket contract includes an awaitingResponse flag to prevent duplicate or simultaneous actions
- Jetton wallets are verified against a whitelist
- Attempts to spoof or inject incorrect contracts are automatically rejected
- A built-in pause flag (isPaused) allows the system to halt new purchases in emergencies

User Asset Security

- No external address — including owners and managers — has access to user funds
- Tokens are locked directly inside user-owned ticket contracts
- Only the wallet owner can complete the journey and unlock the tokens





Testing and Audit

Lucky Train is supported by a comprehensive suite of automated tests and is undergoing independent smart contract audits. This ensures high technical reliability, prevents critical vulnerabilities, and builds trust among users and partners

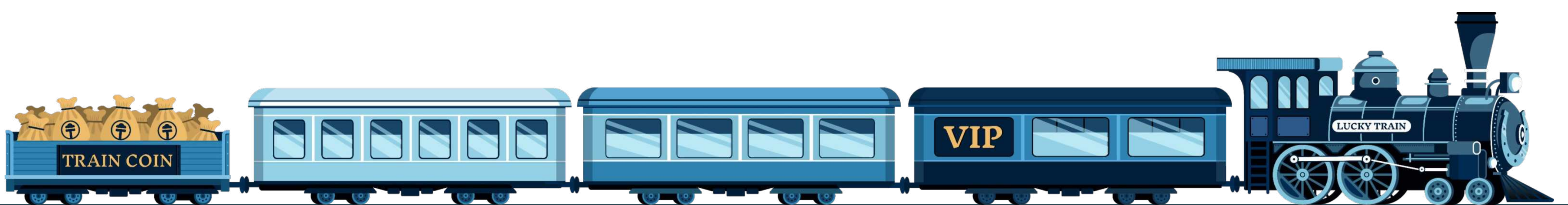
Test Coverage

The testing framework includes three categories:

Test Type	Description
Unit Tests	Validate individual smart contract functions (ticket and journey contracts)
E2E Tests	Simulate the full cycle: ticket purchase → token lock → journey completion
Negative Cases	Test edge scenarios like repeated claims, invalid addresses, premature exits

Example Test Scenarios

- Proper ticket initialization
- Verifying that rewards cannot be claimed before the journey ends
- Blocking repeated reward claims
- Ensuring only managers can access configuration functions
- Validating Jetton wallet ownership and address format
- Token return behavior during paused system state





Tools and Frameworks

- **Language:** FunC (TON's official smart contract language)
- **Build & Deployment:** Blueprint CLI
- **Local Testing:** TON Sandbox
- **Utilities:** @ton/core, @ton-community/assets-sdk

Audit Process

Smart contracts are undergoing independent external audit

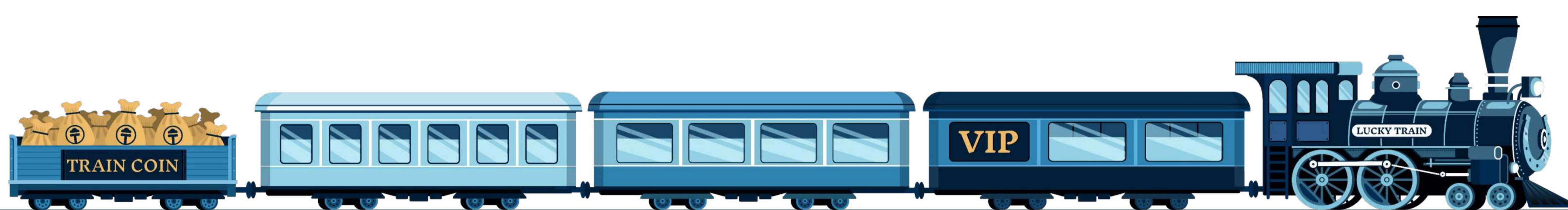
Item	Detail
Project	Lucky Train: token staking and rewards mechanics
Repository	GitLab — dedicated audit branch
Components	staking.fc, ticket.fc, utils.fc
Coverage	100% of all public functions
Focus	Security, architecture design, TEP compatibility

Audit scope includes:

- Validation of token storage and distribution logic
- Verification of burn mechanism implementation
- Confirming absence of unauthorized access vectors
- Compliance with TEP-74 and Jetton standards



Audit firms involved: TonBit and CertiK





Scalability and Growth

The architecture of Lucky Train is designed with a long-term perspective — enabling flexible scalability, modular expansion, and the addition of new features without the need for system restarts or data migration. Thanks to its modular smart contract architecture, the project can easily adapt to user growth and the evolving Web3 ecosystem

Horizontal Scalability

Each ticket operates as a standalone smart contract, which provides:

- Complete independence between journeys
- No single point of failure — issues in one ticket cannot affect the rest of the system
- The ability to handle thousands of parallel operations without overloading the main contract



This ensures the system remains performant and secure as user demand grows

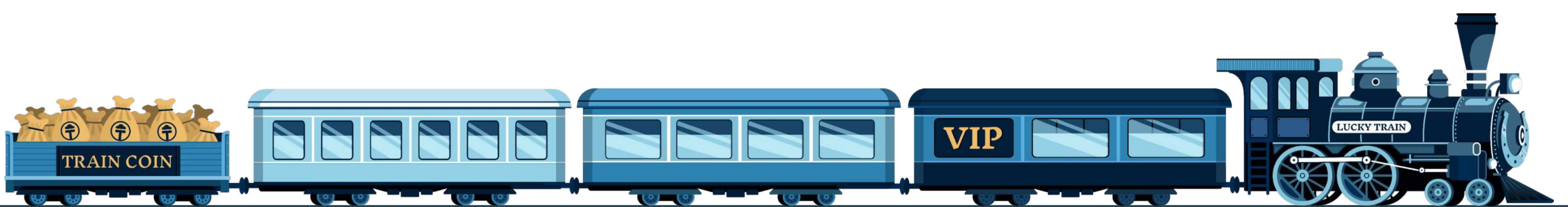
Flexible Configuration

The main contract allows:

- Adding new ticket classes
- Adjusting parameters for rewards, burn rates, and lock limits
- Modifying the token distribution model (between the reward pool, burn mechanism, and team balance)

Importantly:

- Existing tickets retain their original parameters
- Changes do not affect active or past tickets
- All configuration updates are made on-chain without redeploying the system





Module Integration

Lucky Train is designed for future expansion through plug-and-play modules. Potential additions include:

Feature	Description
NFT Tickets	Collectible and tradable tickets with unique properties
DAO Governance	TrainCoin-based voting system to govern ecosystem decisions
Quests & Missions	Gamified challenges with progress tracking and achievements
Referral Levels	Advanced multi-tiered affiliate programs
Multi-Tickets	Composite tickets with combined reward and lock conditions



Each feature can be deployed independently, without disrupting the core architecture

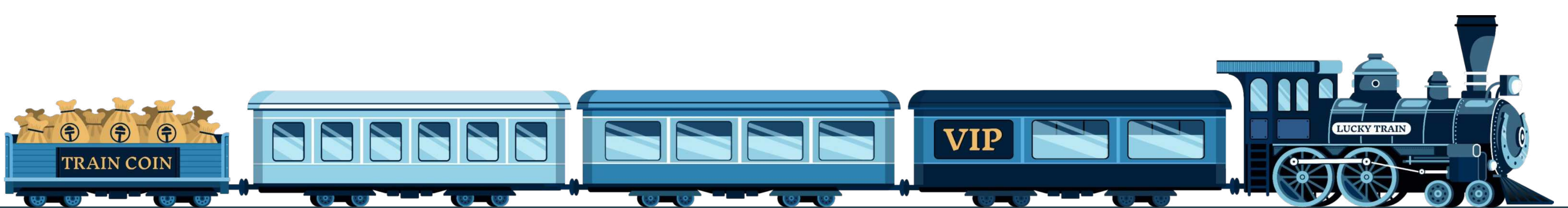
Evolving into a Web3 Platform

With deep integration into both TON and Telegram, Lucky Train is positioned to evolve beyond a single app into a Web3 infrastructure layer. This includes:

- Cross-product integrations with other Mini Apps and external NFT platforms
- Enabling TrainCoin utility in third-party ecosystems
- Expanding within the Telegram ecosystem (bots, bundles, multi-billing)



Lucky Train is more than a staking app — it's a scalable digital framework for a growing Web3 economy



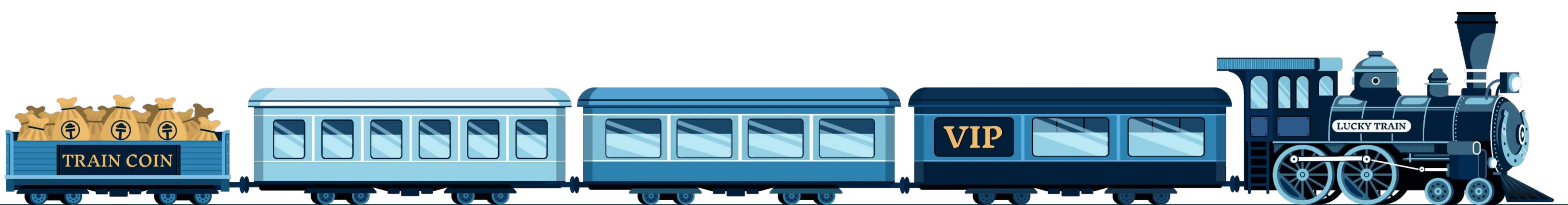


CHAPTER 5

RISKS AND LEGAL DISCLAIMER

Participation in any cryptocurrency project — including Lucky Train — carries inherent risks, both technical and financial.

The points below are provided to help users understand their responsibilities and the potential consequences of participating in the project





01

Financial and Technical Risks

- **Market Volatility**

The price of TrainCoin may fluctuate significantly. Users should be aware that the value of their tokens (including temporarily locked assets) can both rise and fall due to market dynamics

- **Reward Pool Shortages**

In cases of sudden user growth or liquidity outflow, the reward pool may become temporarily insufficient to cover payouts. In such cases, users may need to wait for the pool to be replenished

- **Technical Failures**

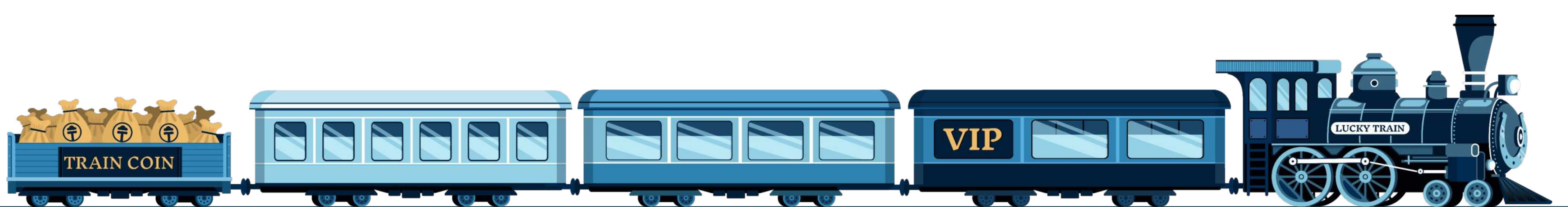
Despite the reliability of the TON blockchain, delays or errors may occur due to Telegram infrastructure issues, network congestion, DEX malfunctions, or other external factors

- **Smart Contract Vulnerabilities**

As with any blockchain application, Lucky Train's smart contracts may contain bugs or vulnerabilities. The team strives to minimize these risks through code audits and transparency, but they cannot be completely ruled out

- **Loss of Wallet Access**

Losing private keys or access to a wallet means permanent loss of control over tokens. Lucky Train cannot restore lost assets. Full responsibility for wallet security lies with the user



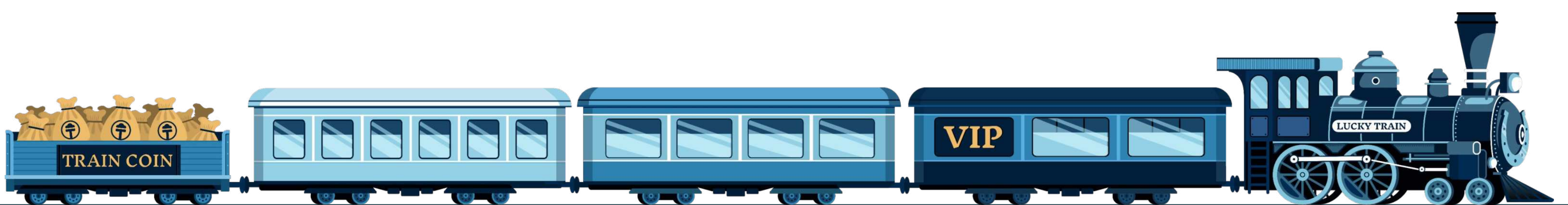


02

Jurisdictional Restrictions

- **Prohibited areas**

The Services are not available to (i) individuals or entities (including those owned or controlled by individuals) that are the subject of economic or trade sanctions administered or enforced by any governmental authority or otherwise designated on any list of prohibited or restricted parties (including but not limited to the United Nations Security Council, the European Union, His Majesty's Treasury of the United Kingdom of Great Britain and Northern Ireland (the "UK Treasury"), and the U.S. Department of Treasury); (ii) individuals or entities placed on the "Denied PersonsList" by the Bureau of Industry and Security of the United States Department of Commerce; or (iii) residents and citizens or entities located in or incorporated under the laws of any country, territory or other jurisdiction subject to a U.S. Government embargo, or that have been designated by the U.S. Government as a terrorist-supporting country, or is otherwise the subject of comprehensive country-wide, territory-wide, or regional economic sanctions by the United Nations, the European Union, the UK Treasury, or the United States, including without limitation Cuba, the Crimea, Donetsk, and Luhansk regions of Ukraine, Iran, North Korea, Russia, Syria, or Yemen (collectively, "Prohibited Users").





03

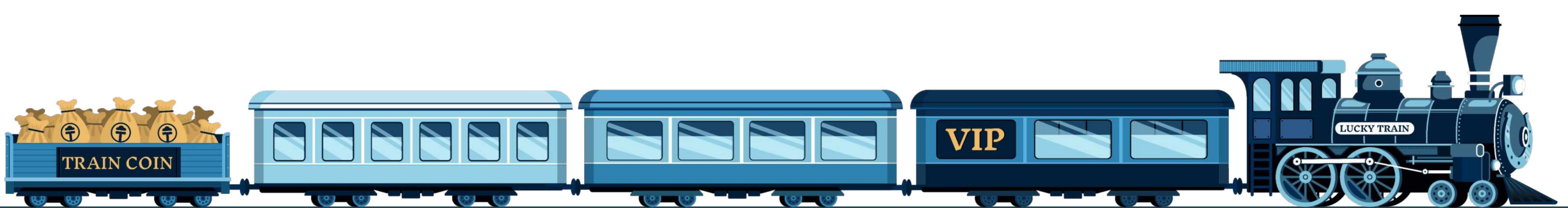
Warranties and Limitations of Liability

- The Train Coins are not designed or intended as an investment opportunity, investment contract, or security of any type and should not be considered a financial investment. Further, no element of the Services qualifies or is intended to be a solicitation or an offering to buy or sell securities, financial products, or services, in any jurisdiction, nor does it constitute an offer or an invitation to purchase shares, securities or other financial products or services

IT REMAINS YOUR SOLE AND EXCLUSIVE RESPONSIBILITY TO ASSURE THAT THE PURCHASE AND SALE OF TRAIN COINS, AND THE USE OF CRYPTOCURRENCIES, COMPLIES WITH LAWS AND REGULATIONS IN YOUR JURISDICTION

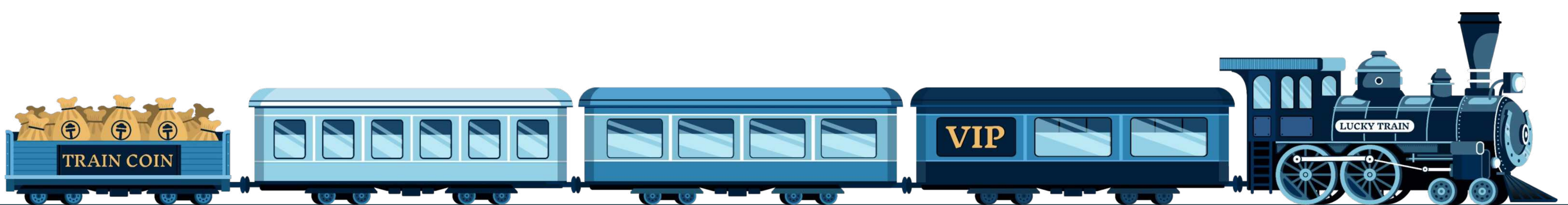
- **Limitation of liability.** You expressly understand and agree that we shall not be liable to you or any third-party for any direct, indirect, incidental, special, consequential, punitive, enhanced and/or exemplary damages including, but not limited to, damages for loss of profits, statutory damages, goodwill, use, data or other intangible losses (even if we have been advised of the possibility of such damages), to the fullest extent permissible by law for:
 - (a) The use or the inability to use the services, Train Coins, material, and/or any other services offered in connection with same;
 - (b) The cost of procurement of substitute goods and/or services resulting from any goods, data, information, content and/or any other products purchased or obtained from or through the website;
 - (c) The unauthorized access to, or alteration of, your registration data;
 - (d) Any matter related to the blockchain network, cryptocurrencies and/or any blockchain-based wallet;
 - (e) The failure to realize any revenue or other financial outcome; and/or
 - (f) Any other matter relating to the services, Train Coins, and/or any other services offered in connection with same.

To the fullest extent permissible by law, this limitation applies to all causes of action, in the aggregate including, but not limited to, breach of contract, breach of warranty, negligence, strict liability, violations of law and civil remedies based thereon, deceptive and unfair trade practices, misrepresentations and any and all other torts. to the fullest extent permissible by law, you hereby release us from any and all obligations, liabilities and claims in excess of the limitations stated herein





- If applicable law does not permit such limitation, our maximum liability to you under any and all circumstances will be five hundred u.s. dollars (US\$500.00). The negation of damages set forth above is a fundamental element of the basis of our bargain and the basis for which we are permitting your access to the services, Train Coins, and/or any other services offered in connection with same would not be provided to you without such limitations. some jurisdictions do not allow certain limitations on liability and, in such jurisdictions, our liability shall be limited to the maximum extent permitted by law
- We are not responsible for the availability, functionality, security, or performance of any digital asset trading platforms on which the Train Coins may be traded. Trading or transferring Train Coins on such platforms is entirely at your own risk and is subject to the terms and conditions, privacy policies, and fee structures of the respective platforms
- We disclaim any liability for any price fluctuations, market conditions, or trading volume of Train Coins, on third-party trading platforms; loss of funds or crypto assets due to technical errors, hacking incidents, or other security breaches on third-party platforms; any decisions or actions taken by third-party trading platforms, including listing or delisting Train Coins, or imposing trading restrictions. By using these third-party platforms, you agree to independently review and accept their terms, and you understand that we are not involved in or liable for their operations





CHAPTER 6

CONCLUSION

Lucky Train makes Web3 accessible, intuitive, and genuinely engaging. Instead of overwhelming users with complex terminology and abstract mechanisms, it offers a **simple train journey metaphor**, where every step is transparent, every result is recorded on-chain, and the entry point is open to anyone on Telegram.

We have combined **rigorous architecture, proven tokenomics, and a gamified user experience** to create a reliable system built on open smart contracts. Users aren't just locking tokens — they're boarding a train, with a clearly defined route and reward logic embedded in each ticket.

What lies ahead:

- Scalability
- New mechanics
- NFT tickets
- Gamified extensions

But even now, the foundation is fully operational: a working, self-contained Web3 system running on TON and integrated into Telegram

We invite everyone who values clarity, reliability, and openness to join us

Jump on the Train — we're going to the Moon!

