



GoldenEra

BLOCKCHAIN

Empowering Nations - Restoring Value

The New Sunrise in Global Finance

www.goldenera.global

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Intro

GoldenEra Blockchain (GEB) is a decentralised, asset-backed financial infrastructure created to support **Program Sunrise** and guide the global transition from fiat instability to a system grounded in real, Sovereign value. Built on a permissioned Proof of Work network (Validator listing), it allows open participation while ensuring integrity through validator approval for all asset-backed token issuance.

Only verified real-world assets - such as gold, commodities, and Cooperative reserves - may be tokenised on **GoldenEra Blockchain (GEB)**. This ensures that every asset token corresponds to tangible, audited value, offering a transparent alternative to the inflationary debt-based model of traditional finance.

The network's native currency **SunCoin (SCGE)** is essential for transaction fees, liquidity.

Governments, Cooperatives, and institutions can issue regulated, asset-backed tokens that reflect real economic value validated off-chain.

Important to know is that every **SunCoin (SCGE)** has a Gold Reserve of 0.25 gram with System Balance Banking Gold RA M0 M1 (XAU), additionally it is also backed by USDB (US Dollar Basel III) through **Sovereign International Treasury Monetary One** and therefor fulfills all regulations of the Basel III Framework.

SunCoin's (SCGE) initial public price is set to 20.00 USD.

GoldenEra Blockchain (GEB) does not support smart contracts, focusing instead on secure, deterministic value transfers, regulatory-aligned tokenisation, and interoperability through exchange-based bridges.

More than a technical platform, **GoldenEra Blockchain (GEB)** is the foundation of the new monetary era - one especially designed to restore trust, empower nations, and build a stable and prosperous global economy anchored in real assets.



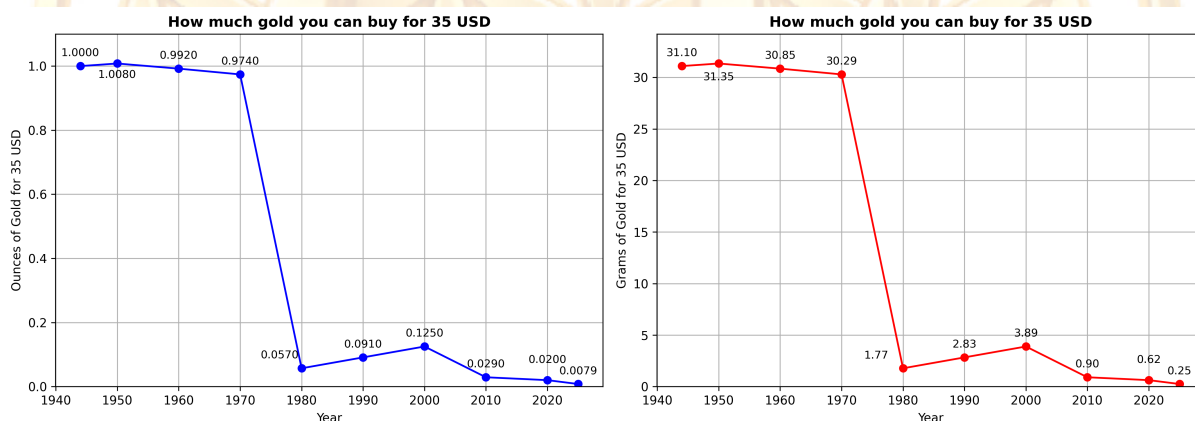
Problem and Solution

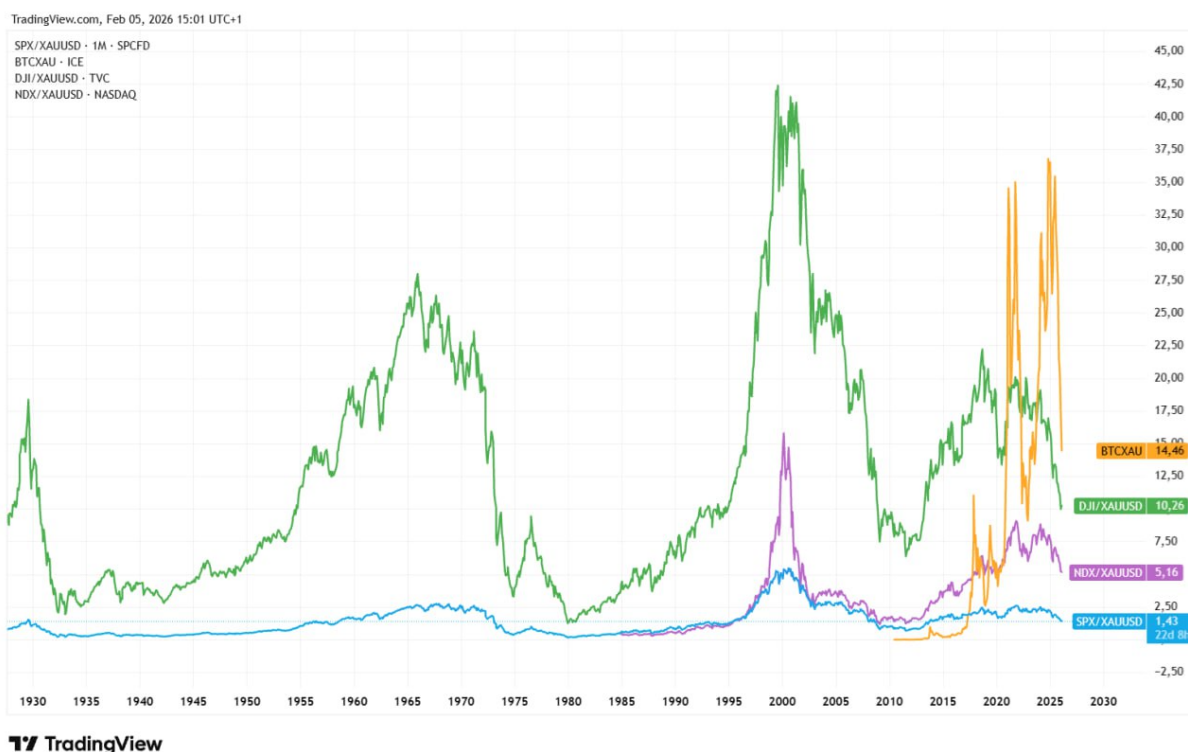
Market Environment, Trends & Description of the Problem

The global financial system is built on unstable fiat currencies, excessive debt creation, and opaque central-bank mechanisms. This leads to inflation, currency devaluation, limited Sovereignty for developing nations, and unequal access to trustworthy financial infrastructure.

But the Dollar-Based Pricing can be Misleading

Across financial markets - including crypto - assets are typically measured in fiat currencies, primarily the U.S. dollar. However, the dollar itself is not a fixed benchmark of value. Historically, money was tied to gold (e.g. under the Bretton Woods Agreement of 1944, where \$35 equaled one ounce of gold), but the gold standard was fully abandoned in 1972. Since then, the dollar has operated purely as fiat, backed not by intrinsic value but by collective confidence and government authority.





This has significant implications:

- Fiat currency erosion: Because fiat currencies lose purchasing power over time, nominal price increases in markets may reflect currency debasement rather than real value growth
- Real vs. nominal valuation: When major indices are priced in gold (XAU) instead of dollars, historical performance appears drastically different
In gold terms, major equity indices have not recovered to their peaks since the 2000 market crash, and valuations remain weaker than levels seen in the late 1960s
- Interpretation for crypto: The same effect applies to digital assets. Dollar-denominated prices may not accurately reflect real value creation, purchasing power, or long-term strength

Our Solution

GoldenEra Blockchain (GEB) provides a technological backbone for **Program Sunrise** by enabling a decentralised, asset-backed financial ecosystem where real-world value replaces fiat-driven instability. Through a permissioned Proof-of-Work network (Validator listing) and validator-approved token issuance its ensured that every asset-backed token is tied to audited gold, commodities, or Cooperative reserves.

International Cooperatives - the heart of **Program Sunrise** - gain the ability to tokenise their own verified assets, create stable community currencies, manage reserves



transparently, and fund development without reliance on external debt-based systems. This empowers local economies while contributing to a unified global asset standard.

GoldenEra Blockchain (GEB) is uniting decentralised technology, real-asset backing and Cooperative participation to enable nations, Cooperatives and its members as well as institutions to create the new financial Sovereignty and global economic stability.



GoldenEra Blockchain (GEB)

GoldenEra Blockchain's Long-Term Vision

GoldenEra Blockchain (GEB) aims to become the pillar of the new global financial era; one where nations regain Sovereignty, communities flourish, and individuals access stable, asset-backed economic systems grounded in integrity.

It is more than a blockchain; it is the structural foundation for a peaceful, transparent, and prosperous global future under the **Program Sunrise**.

Project Philosophy in 10 Points

1. **GoldenEra Blockchain (GEB)** is built on the belief that **money must reflect real, audited value**, not speculative debt
2. The project restores **financial integrity** by anchoring digital assets to tangible resources
3. We support **Sovereignty for nations**, enabling them to issue stable, asset-backed currencies
4. **Cooperatives** are empowered to **build resilient local economies** through verified asset tokenisation
5. **Individuals gain** access to **stable, transparent financial tools** outside volatile fiat systems
6. **Decentralisation** ensures **fairness, openness, and protection** from centralised manipulation
7. **Validator** oversight adds **integrity to asset creation** while keeping the network permissionless
8. **Technology** is used **to uplift humanity**, not replace judgment or concentrate power
9. **GoldenEra Blockchain (GEB)**, as a part of **Program Sunrise**, creates a peaceful, real-value global economy
10. ***Our philosophy is simple: finance should serve people, strengthen nations, and promote shared prosperity***



Benefits for Stakeholders

Benefits for Society

- **Stable Value Storage:** People can hold wealth in asset-backed tokens instead of inflation-prone fiat
- **Financial Inclusion: SunPay** and Cooperative participation give underserved communities access to modern financial tools
- **Lower Transaction Costs:** Fast, affordable payments nationally and across borders improve daily life and reduce remittance fees
- **Economic Sovereignty:** Citizens gain independence from unstable monetary systems and predatory financial institutions
- **Community Empowerment:** Cooperatives can fund development projects, create jobs, and build local prosperity
- **Transparency & Trust:** On-chain transaction reduces corruption, fraud, and financial manipulation

Benefits for Industry

- **Reliable Settlement Layer:** Businesses gain a stable, asset-backed environment for payments, trade, and cross-border transactions
- **Reduced Volatility:** Companies operate with predictable value, improving planning, pricing, and risk management
- **Global Interoperability:** Exchange-based bridges enable seamless integration with existing financial systems and other blockchains
- **Access to Real-Asset Tokens:** Industries can tokenise commodities, reserves, or inventory for financing and liquidity
- **Trustworthy Accounting:** Audited-tokenisation, on-chain asset records enhance compliance and improve financial transparency
- **Support for Emerging Markets:** Companies can expand to emerging countries using **GoldenEra Blockchain (GEB)** as a stable backbone



GoldenEra Ecosystem Description

The **GoldenEra Blockchain (GEB)** is a newly developed technological platform built upon two decades of global preparation. Although the blockchain itself is modern, its philosophical and structural roots extend deep into the history of humanity's pursuit of a fair, stable, and people-centered financial system. **GoldenEra Blockchain (GEB)** emerges from a long-standing decision to create a more efficient and Sovereign alternative to the failing debt-based model; a system capable of supporting global prosperity and serving every individual.

Over the past 20 years, an extensive real-world infrastructure has been developed to make this vision possible. More than 200 International Cooperatives have been established across the world, each designed as a foundational pillar of a new model of wealth distribution. These International Cooperatives form the social and economic backbone of the ecosystem, providing transparent operational procedures, clear governance, and development frameworks crafted to uplift nations and empower communities.

GoldenEra Blockchain (GEB) serves as one of the key infrastructural instruments that allows this global Cooperative system to fulfill its promises. It enables secure value movement, asset-backed tokenisation, community currencies, and a transparent financial environment that aligns with **Program Sunrise** and the broader mission of global economic renewal.

To support this transformation, the **GoldenEra Blockchain (GEB)** ecosystem extends far beyond the blockchain itself. A comprehensive environment has been built to ensure that society, industry, and governments have the tools they need to participate in a real-value financial world.

Native Coin SunCoin (SCGE)

SunCoin (SCGE) is the native digital currency of the **GoldenEra Blockchain (GEB)**. It serves as the operational fuel of the network and is used all over the broader **GoldenEra Ecosystem (GEE)**.

SunCoin (SCGE) is designed to maintain stability and usability within a decentralised environment while supporting both global financial operations and local Cooperative development.

SunCoin (SCGE) is the essential utility coin of the **GoldenEra Blockchain (GEB)**. It powers transactions, supports global payments, enables interoperability, and ties together the entire Cooperative and Sovereign financial infrastructure. While not fully asset-backed, it is the backbone of all decentralised operations, ensuring that



GoldenEra Blockchain (GEB) can serve as part of the global platform for **Program Sunrise** and the new real-value economy:

Integration with the Cooperative Network

SunCoin (SCGE) supports the global Cooperative infrastructure by enabling:

- Cross-Cooperative transfers
- Payments for services and goods on the global marketplace
- Participation in Cooperative development programs
- Incentives for members engaging in training, education, and local projects

It strengthens economic interaction between more than 200 International Cooperatives worldwide.

Interoperability and Exchange Access

SunCoin (SCGE) is fully tradeable and functions as a bridge between:

- Currencies
- Other digital assets
- Asset-backed tokens on **GoldenEra Blockchain (GEB)**

Its role as the ecosystem's universal coin ensures that individuals and institutions can easily enter and exit the **GoldenEra Ecosystem (GEE)**.

Governance and Future Participation

While **SunCoin (SCGE)** does not directly confer governance rights, it supports the broader ecosystem that interacts with both:

- The **GoldenEra Sovereign Decentralised Autonomous Organisations (GESDAO)**
- The off-chain advisory council

SunCoin (SCGE) is going to be used in future community-driven participation mechanisms, incentives, and ecosystem growth programs.

Why SunCoin Matters

Although **SunCoin (SCGE)** is actually not fully backed by physical assets, it provides the mechanical utility that powers everything within the **GoldenEra Ecosystem (GEE)**.

It enables:

- Network stability



- Cross-border payments
- Liquidity for asset-backed tokens
- Financial inclusion
- Scalable real-value markets

SunCoin (SCGE) is the functional engine that keeps the **GoldenEra Ecosystem (GEE)** running, allowing asset-backed value to flow freely across people, International Cooperatives, and governments.

Self-Custodial GoldenEra Wallet (GEW)

Users maintain full control over their digital assets, including **SunCoin (SCGE)** and asset-backed tokens. These wallets form the gateway to the **GoldenEra Ecosystem (GEE)** and support secure, permissionless access for people worldwide.

GoldenEra Scan (GES)

GoldenEra Scan (GES) – Your Window into the **GoldenEra Blockchain (GEB)**

GoldenEra Scan (GES) is the official blockchain explorer for the **GoldenEra Blockchain (GEB)**, your easy, transparent, and reliable way to see what's happening from a payment perspective across the entire **GoldenEra Ecosystem (GEE)**.

Built for a high-performance Proof-of-Work blockchain, **GoldenEra Scan (GES)** makes it simple to track transactions, explore blocks, and follow network activity in real time.

GoldenEra Exchange (GEX)

The decentralized, native **GoldenEra Exchange (GEX)** will launch in the first development stage, enabling seamless trading between **SunCoin (SCGE)**, other **GoldenEra Blockchain (GEB)** based asset-backed tokens, and other digital assets. This ensures liquidity, transparency, and global interoperability.

SunChat (SCH)

SunChat (SCH) is an independent messenger built for fast, secure and private communication.

No tracking. No data harvesting. No selling of private data. No external systems. Just fast, end-to-end encrypted messaging - designed to keep your conversations truly yours.

Messaging, Reimagined



GoldenEra Marketplace (GEM)

The decentralised **GoldenEra Marketplace (GEM)** operated through International Cooperatives worldwide. It enables fair trade, ethical sourcing, and real-value commerce within the **GoldenEra Ecosystem (GEE)**. Communities can buy, sell, and exchange goods using **SunCoin (SCGE)** or other **GoldenEra Blockchain (GEB)** based asset-backed tokens and currencies fostering economic independence.

GoldenEra Academy (GEA)

The global **GoldenEra Academy (GEA)** educational platform dedicated to teaching:

- Human evolution and historical development
- Monetary systems and economic history
- **Program Sunrise** principles
- Real-asset financial models
- International Cooperative development
- and much more

The Academy equips people and nations with the knowledge required to navigate and thrive within the new economic era.

GoldenEra Innovation Hub (GEIH)

A specialised hub that funds and supports human-centered technological advancements. It encourages innovation that benefits society; including sustainable technologies, ethical financial tools, International Cooperative growth systems, and future-oriented infrastructure.

GoldenEra Charity (GEC)

GoldenEra Charity (GEC) serves as the humanitarian foundation of the **GoldenEra Ecosystem (GEE)**. Every user of **SunCoin (SCGE)** and all participants in the **Program Sunrise** have the opportunity to contribute to charitable efforts. We are integrating a "Donation Button" on our website, which will be extended to our **GoldenEra Wallet (GEW)** and **GoldenEra Exchange (GEX)** platforms in near future.

Donations can be designated for specific regions through International Cooperatives or contributed to a general donation fund, which will be allocated to various initiatives within the **GoldenEra Charity (GEC)** projects funnel.



The **GoldenEra Blockchain (GEB)** is committed to supporting charitable causes as well, initially providing food packages and later expanding our support to a wider range of initiatives. In the future, we will enable you to launch your own charity projects.

SunPay Payment System (SunPay)

SunPay, is the “payment system” functioning within the **Program Sunrise**, connected to the International Cooperative internal accounting centers so called “Cooperative Banks”.

RA Media (RAM)

Distributed through the International Cooperatives, **RA Media (RAM)** provides real, verified information to counteract misinformation and restore public trust. It serves as an educational and communication pillar for individuals and communities aligned with **Program Sunrise**.

Much More in Development

The **GoldenEra Ecosystem (GEE)** is designed to expand continuously, with future components already in preparation; further enhancing global connectivity, financial stability, education, and Sovereign economic development.

A Unified Environment for a Sovereign Future.

The **GoldenEra Ecosystem (GEE)** represents a harmonised combination of blockchain technology, Cooperative infrastructure, educational platforms, media networks, and innovation engines.

Program Sunrise

All points above are part of **Program Sunrise** which consists of over 200 International Cooperatives worldwide.

Detailed information about **Program Sunrise** you find soon on

www.programsunrise.org



SunCoin in Depth (SCGE)

SunCoin (SCGE) is the native Coin on our **GoldenEra Blockchain (GEB)**.

The total supply of **SunCoins** is **88'888'888'888** and all Coins are minted from the beginning.

Sovereign International Treasury Monetary One holds the Gold Reserves to strengthen the ecosystem stability.

Therefore 1 **SunCoin** has a Gold Reserve of 0.25 gram with System Balance Banking Gold RA M0 M1 (XAU), additionally it is also backed by USDB (US Dollar Basel III) through **Sovereign International Treasury Monetary One** and fulfills all regulations of the Basel III Framework.

The initial price for the public launch is set to USD 20.00.

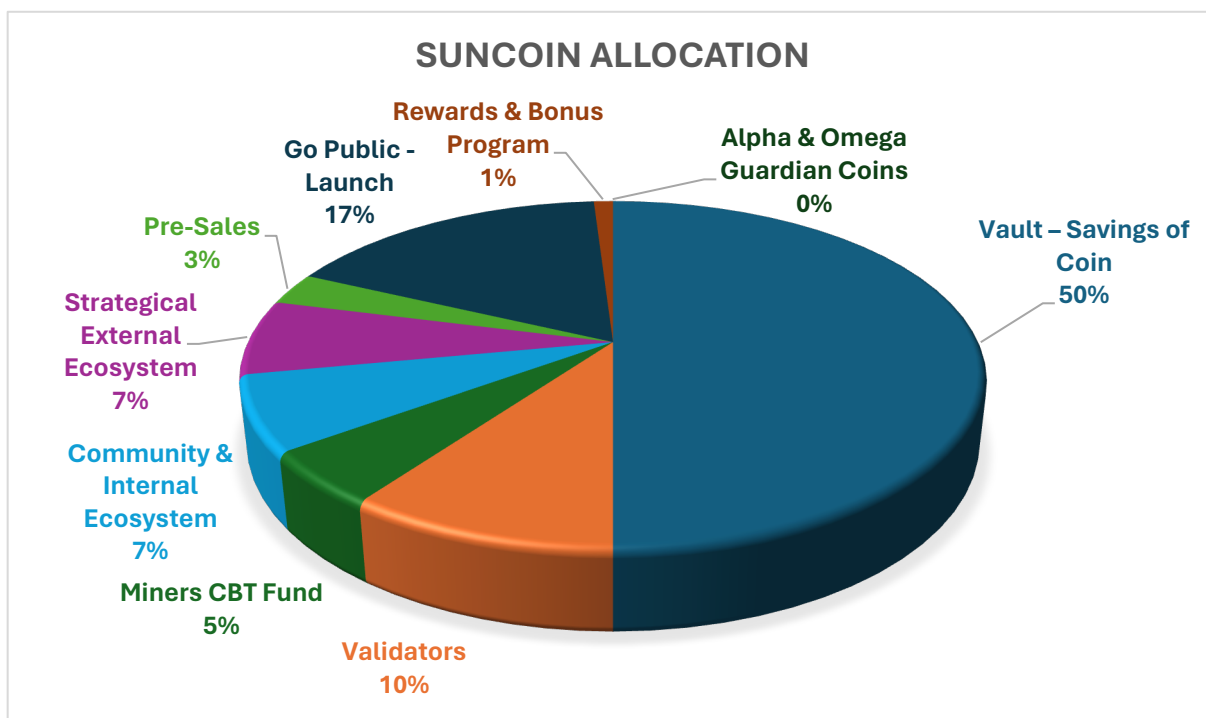
The **GoldenEra Blockchain (GEB)** is designed to support the **Program Sunrise** initiative of Sovereign International Treasury Monetary One and fulfills all regulations of the Basel III Framework.

Additional asset classes can be tokenized by different entities on the **GoldenEra Blockchain (GEB)** in order to successfully transform the global economy toward the gold standard.

This creates an interoperable ecosystem where various gold and other asset classes can be issued and traded securely, transparently, and efficiently on the same blockchain.



Tokenomics



More detailed Allocation Information

Approx. Percentage	Amount of Coins	Participant
50 %	44'444'444'440	Vault – Savings of Coins
10 %	8'888'888'888	Validators
5 %	4'444'444'442	Miners CBT Fund
7 %	6'222'222'222	Community & Internal Ecosystem
7 %	6'222'222'222	Strategical External Ecosystem
3 %	2'666'666'665	Pre-Sales
= 2 %	1'777'777'777	Phase 1
= 1 %	888'888'888	Phase 2
17 %	15'111'111'111	Go Public - Launch
1 %	888'888'888	Rewards & Bonus Program
Special	10	Alpha & Omega Guardian Coins



Miners CBT Fund

The CBTs (Coin Based Transactions) are funded through our dedicated Miners CBT Fund. As part of our commitment to operational transparency and sustainability, we are allocating a portion of our own **SunCoins (SCGE)** to this fund. This allocation will specifically cover the fees associated with the additional costs and income generated by our Miners (Validators).

This differentiates us from ordinary cryptocurrencies, which have inflationary tendencies.

It is important to note that we are deliberately steering clear of traditional fiat mechanisms that create currency without tangible backing. Our approach emphasizes stability and integrity in currency generation, ensuring that all tokens are supported by real value within our ecosystem.

In the event that the pool for Coin-Based Transaction (CBT Funds) payments is exhausted, it will be replenished without delay.

The actual CBT payment is set to 0.1 **SunCoin (SCGE)**.

To become a Miner (Validator) please get in touch with us by sending us an email to Info@goldenera.global with the subject matter "Miner". We will then explain you the different options and procedures.

Fee Policy

minTxBaseFee = 0.000002 **SunCoin (SCGE)**
minTxByteFee = 0.00000005 **SunCoin (SCGE)**

TYPICAL_TX_FEE (155 bytes) = 0.00000975 SCGE
1KB_TX_FEE = 0.000052 SCGE
MAX_TX_FEE (100,000 bytes) = 5.000002 SCGE

TotalFee = BaseFee + (ByteSize * ByteFee)

SPAM_COST_PER_BLOCK = approx 0.341 SCGE
SPAM_COST_PER_HOUR = approx 40 blocks * 0.341 SCGE = approx 13.6 SCGE

Funds Usage

- 30% of the funds will be allocated to the development of the **GoldenEra Blockchain (GEB)** infrastructure and its ecosystem. This includes investment in team recruitment, training, marketing and branding, as well as innovation and development budgets
- 50% of the funds are designated for the global socio-economic development of the nations under the **Program Sunrise** initiative of Sovereign International Treasury Monetary One



- 20% of the funds will be held in reserve to address any emergencies or unforeseen circumstances that may arise

Initial Coin Offering (ICO)

% of Vol	Coins	Exch. Rate	when	what
2 %	1'777'777'777	Fixed per contract	Ongoing	Phase 1
1 %	888'888'888	15.00 USD	Q2 2026	Phase 2

Phase 1

We are pleased to offer an exclusive opportunity for strategic sale customers through our pre-sale Initial Coin Offering (ICO), which includes a comprehensive "Know Your Customer" (KYC) procedure.

Participants will receive a contract detailing all necessary information and pricing associated with this process. Furthermore, there will be a lock-up period of two years during which the tokens will be restricted from transfer or sale.

Phase 2

We are pleased to announce our upcoming public pre-sale ICO, scheduled for second quarter of 2026. This pre-sale phase will also be conducted through an Initial Coin Offering (ICO) and will include a comprehensive "Know Your Customer" (KYC) procedure to ensure compliance and security.

Additionally, there will be a vesting period for participants. During this time, 25% of the coins will be accessible after the first year, with the remaining coins locked until the conclusion of the second year.

The Pre-Sale Price for the Public Sale is set to 15.00 USD.

If you want to participate in the pre-sale ICO please send us an email to Info@goldenera.global with the subject matter "Pre Sale".

Official Public Launch

The official launch is scheduled for the third quarter of 2026. This launch will take place on our **GoldenEra Exchange (GEX)**.

The **GoldenEra Exchange (GEX)** serves as our global gateway and is set to go live by Q3 2026. Additional exchanges will be integrated in subsequent phases.



The price for the official launch is established at **\$20.00 USD**.

Our **SunCoin (SCGE)** can be purchased using Bitcoin, Ethereum, USDT, USDC, and classic fiat currencies (such as USD, EUR, and many others) via card and bank payments.



System Architecture

Overview

GoldenEra Blockchain (GEB) is an account-based blockchain utilising a state-machine architecture. It does not support programmable smart contracts. Instead, it features native support for custom tokens and a built-in governance system (BIP - Blockchain Improvement Proposals) directly within the protocol layer.

- **Type:** Account-based.
- **State Storage:** Merkle Patricia Trie
- **Smart Contracts:** None.
- **Native Features:** Embedded Custom Tokens, on-chain Governance (BIP)

Blockchain Parameters

BLOCK_TIME = 30 seconds
MAX_BLOCK_SIZE = 5,000,000 bytes
MAX_TX_SIZE = 100,000 bytes
TYPICAL_TX_SIZE = 155 bytes
MAX_TX_PER_BLOCK = approx 35,000
THROUGHPUT = approx 1,160 tx/s
TOKEN_NAME = SunCoin
TOKEN_TICKER = SCGE
TOKEN_DECIMALS = 8
TOKEN_SMALLEST_UNIT = 0.00000001 SCGE
BLOCKS_PER_DAY = 2880
MINER_REWARD_PER_DAY = 288 SCGE

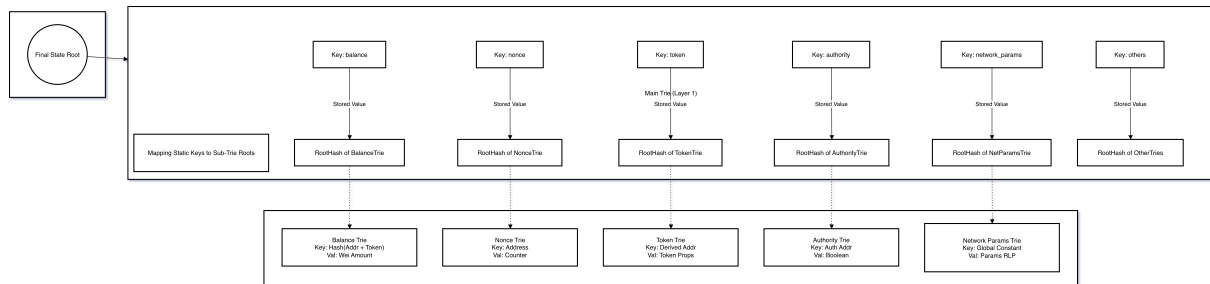
Cryptography and Encoding

- **Hashing Algorithm:** Keccak256 (used for block hashes, transaction hashes, and state keys)
- **Signature Scheme:** ECDSA (Ethereum-style) using the secp256k1 curve
- **Data Encoding:** RLP (Recursive Length Prefix)
- **Addressing:** Ethereum-style address derivation (20-byte)



Global State Structure

The global state is stored in a key-value store structure (Merkle Patricia Trie). The keys are specific to the data type being stored.



Consensus and Mining

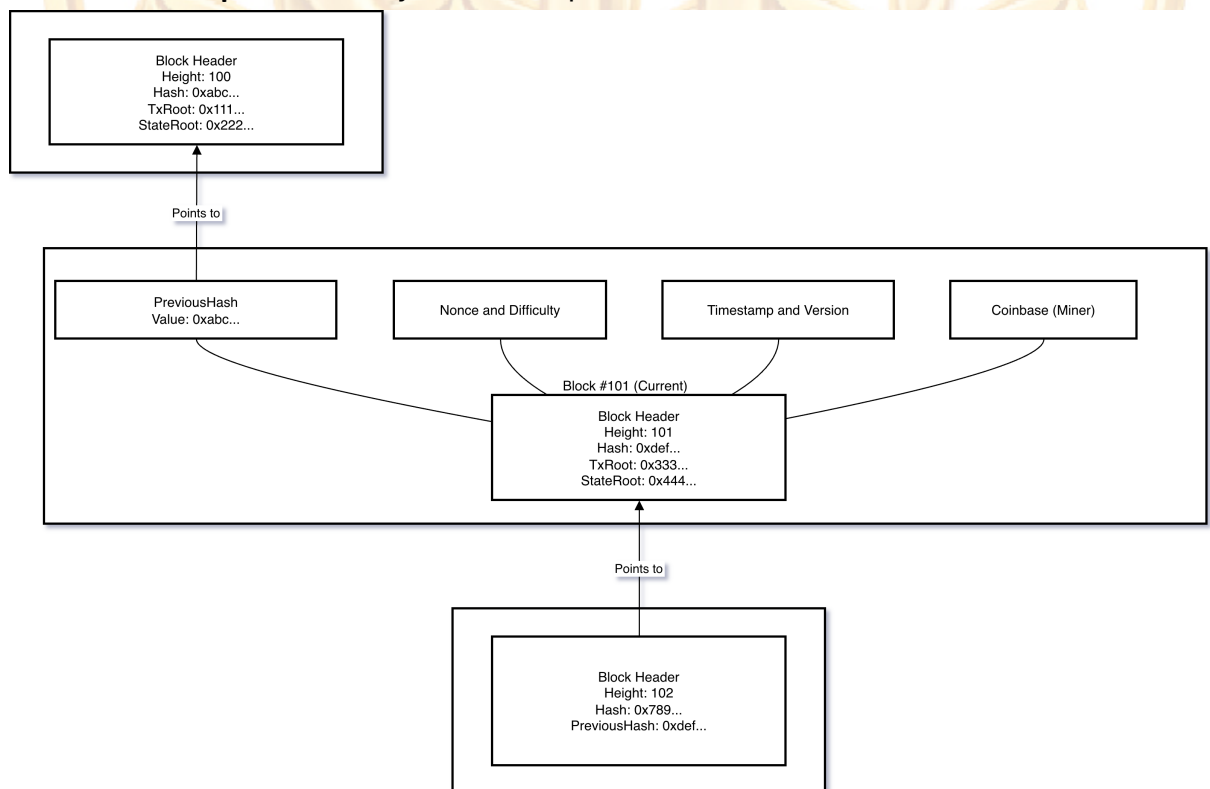
Algorithm

- **Proof of Work:** RandomX (ASIC-resistant)

Permissioned Mining

Mining rights are restricted based on the **Validator** State.

- **Standard Operation:** Only addresses present in the Validator List can mine blocks

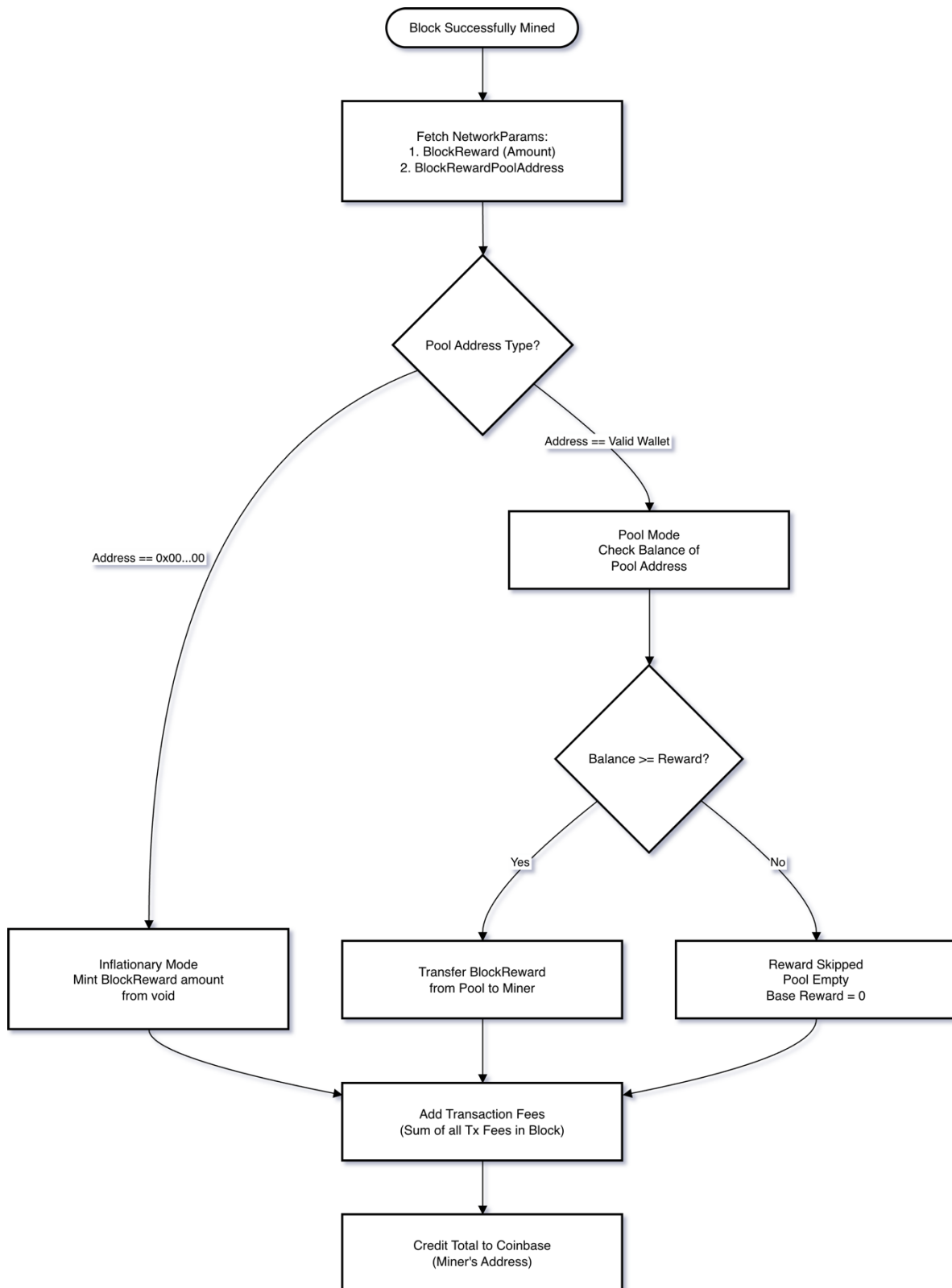


Block Rewards

MINER_BLOCK_REWARD = 0.1 SCGE

Rewards are dispensed based on NetworkParams

- **Source:** BlockRewardPoolAddress



Governance: BIP System (Blockchain Improvement Proposals)

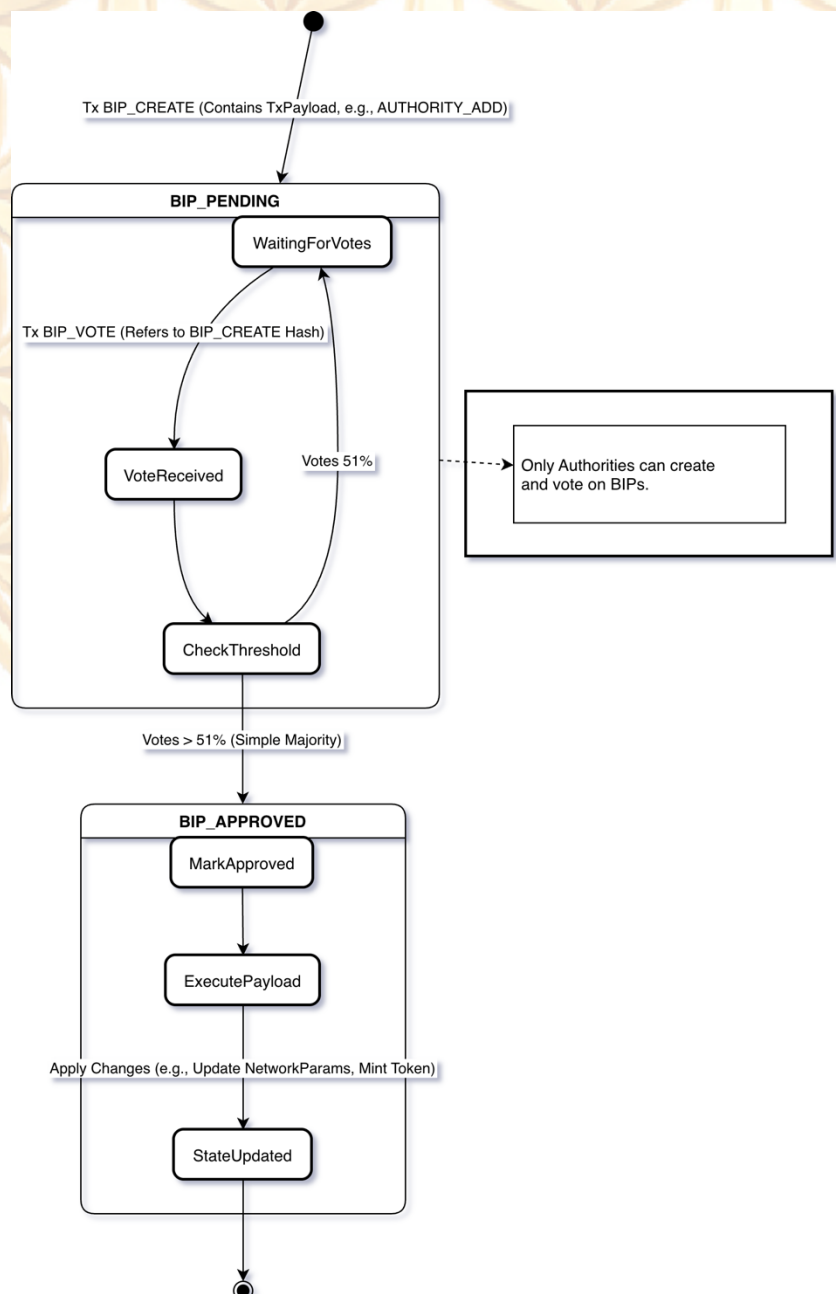
The blockchain creates and executes changes via specialized transactions. Only **Authorities** can create BIPs and vote on them.

- **Role:** Authority (address + private key)
- **Mechanism:** On-chain voting

We will publish the process details to the BIP shortly.

BIP-Lifecycle

1. **Creation:** Authority sends BIP_CREATE transaction
2. **Voting:** Authorities send BIP_VOTE transactions referencing the BIP_CREATE hash
3. **Execution:** Automatic upon reaching threshold or expiration



BIP Types (Operations)

ID	Type	Description
0	AUTHORITY_ADD	Adds a new Authority address
1	AUTHORITY_REMOVE	Removes an existing Authority
2	ADDRESS_ALIAS_ADD	Maps a string alias to an address (DNS-like)
3	ADDRESS_ALIAS_REMOVE	Removes an alias
4	TOKEN_CREATE	Initialises a new custom token
5	TOKEN_UPDATE	Updates mutable token properties (URLs)
6	TOKEN_MINT	Mints new tokens (if mutable)
7	TOKEN_BURN	Burns tokens (reduces supply)
8	NETWORK_PARAMS_SET	Updates consensus parameters (fees, rewards, etc.)
9	VALIDATOR_ADD	Adds a miner to the allowlist
10	VALIDATOR_REMOVE	Removes a miner from the allowlist



Coin and Token Standards

The **GoldenEra Blockchain (GEB)** supports the native **SunCoin (SCGE)** and custom tokens.

- **Native Coin:** Used for all transaction fees
- **Custom Tokens:** Created via TOKEN_CREATE BIP

Token Properties

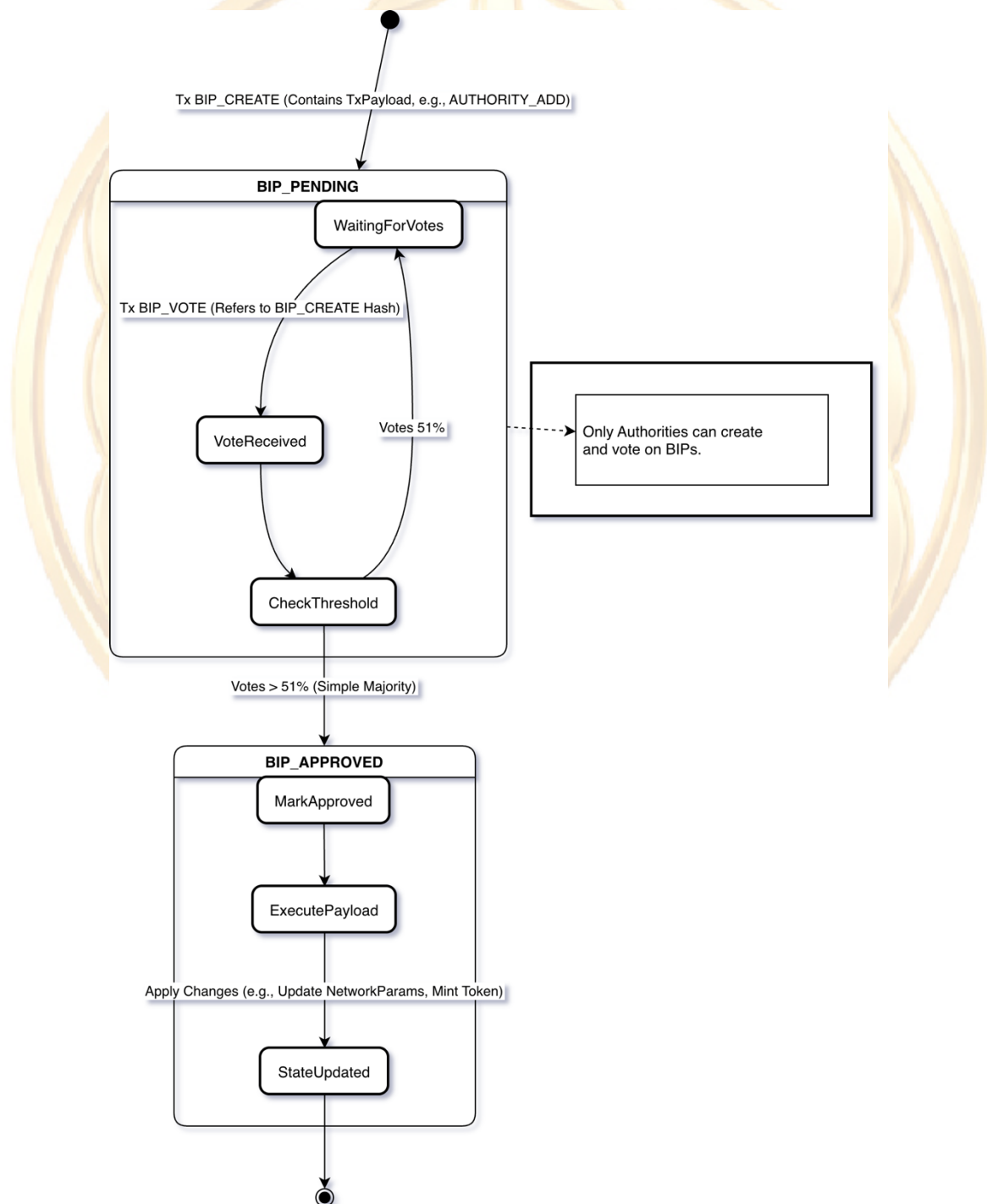
- Name (String, Updatable via BIP)
- SmallestUnitName (String, Updatable via BIP)
- NumberOfDecimals (Int, Immutable)
- WebsiteUrl (String, Updatable via BIP)
- LogoUrl (String, Updatable via BIP)
- MaxSupply (BigInteger, Immutable)
- IsUserBurnable (Boolean, Immutable) - If true, users can send to 0x00 to burn
- TotalSupply (Wei, Updatable only via Mint/Burn BIPs or Mining logic)



Transactions

Structure

- **Type:** TRANSFER, BIP_CREATE, or BIP_VOTE
- **Nonce:** Strictly incremental (PreviousNonce + 1)
- **TokenAddress:** Must be specified for every transaction (even native transfers use 0x00...00)
- **Fee Model:** Paid by Sender.
 - $\text{TotalFee} = \text{BaseFee} + (\text{ByteSize} * \text{ByteFee})$
 - Fees are always paid in the native **SunCoin (SCGE)**



Network Parameters (Dynamic)

These values are stored in the state and can be modified at runtime via NETWORK_PARAMS_SET BIP.

- **Block Reward:** Defines the fixed amount of native currency awarded to a miner for successfully mining a valid block
- **Block Reward Pool Address:** Determines the source of the block reward
- **Target Mining Time Ms:** The desired time interval (in milliseconds) between the generation of two blocks. This value is used by the difficulty adjustment algorithm to regulate network hashrate
- **ASERT Half Life Blocks:** A parameter for the ASERT difficulty algorithm that acts as a smoothing factor or "relaxation time." It determines how responsive the difficulty adjustment is to recent fluctuations in hashrate
- **ASERT Anchor Height:** A specific block height used as a fixed reference point (checkpoint) for the ASERT algorithm to calculate the next required difficulty
- **Min Difficulty:** The absolute minimum difficulty value allowed by the network. The difficulty adjustment algorithm is prevented from setting a target below this threshold
- **Min Tx Base Fee:** The mandatory flat fee charged for every transaction processed by the network, regardless of the transaction's size or type
- **Min Tx Byte Fee:** The variable fee charged per byte of data in a transaction. The total variable cost is calculated as $\text{TransactionSizeBytes} * \text{MinTxByteFee}$

Security and Data Protection

Security Principles

GoldenEra Blockchain (GEB) is an account-based blockchain built on a state-machine architecture with state stored in a Merkle Patricia Trie, ensuring deterministic and verifiable state transitions.

The network operates under a Proof-of-Work consensus using the RandomX algorithm, which is designed to be ASIC-resistant. Mining difficulty is adjusted every block using ASERT (Absolute Sahptouris Exponential Recalculation Target) based on the network-defined target mining time.

Mining is permissioned. Only addresses listed in the Validator List are authorized to mine blocks, as defined by the current Validator State. This restriction limits unauthorized participation and strengthens resistance against Sybil-style attacks.

Cryptography

GoldenEra Blockchain (GEB) employs established cryptographic standards:

- Hashing: Keccak256 for blocks, transactions, and state keys



- Signatures: ECDSA using the secp256k1 curve
- Data Encoding: Recursive Length Prefix (RLP)
- Addressing: Ethereum-style 20-byte addresses

Block and transaction identifiers are derived from RLP-encoded data and cryptographic hashes. Private keys and sensitive cryptographic material are never stored or exposed on-chain.

Privacy

Accounts are represented by cryptographic addresses. The protocol restricts on-chain data to what is required for consensus and state validation. No personal or sensitive information is inherently required by the protocol to be stored on-chain.

Governance & Trust

Protocol changes are managed through a native on-chain Blockchain Improvement Proposal (BIP) system. BIPs are created and executed via specialized transactions.

- Role: Authority (identified by address and private key)
- Permissions: Only Authorities may create and vote on BIPs
- Mechanism: On-chain voting
- Decision Rule: A state change is finalized when more than 51% of votes result in either Approval or Disapproval

All governance actions are recorded on-chain, making protocol changes transparent and auditable.

Risk Management

Risk is addressed at the protocol and network level through controlled participation and deterministic execution rules. The combination of permissioned mining, explicit governance roles, and restricted state transitions limits unauthorized actions and reduces operational risk.



Roadmap

When	What	Information
Q4 / 25	TestNet	Running all Tests
Q1 / 26	Whitepaper	Summarising all Information
Q1 / 26	GES Scan	GoldenEra Scan
Q1 / 26	GEW Wallet	GoldenEra Wallet Live
Q2 / 26	Pre-Sale Phases	Strategic & Public ICO
Q2 / 26	GEX Exchange	GoldenEra Exchange link Live
Q2 / 26	Marketing	Marketing Campaign Launch
Q3 / 26	Official Launch	Public Launch SunCoin & GoldenEra Blockchain
Q3 / 26	SCGE Listing	Listing on Index Platforms
Q3 / 26	Exchanges	Partnering with Exchange Platforms
Q3 / 26	Dev EcoSystem	Development GoldenEra EcoSystem



Team & Partners

The **GoldenEra Blockchain (GEB)** Project is part of the **Program Sunrise** and is commissioned and developed by the **World Sovereign Bank of the Order of Hospitallers** under the supervision of the **Order of St. John of Jerusalem, Rhodes and Malta, the Supreme Sovereign Order of Hospitallers, Sovereign International Treasury Monetary One** serving as an additional pillar of the transition to the new financial system.

Strategic Partners & Collaborations

- The World Sovereign Union of Cooperation Light Great Rus
 - International Consumer Cooperative Slovenské Podielové Družstvo ROD, Družstvo
 - International Consumer Cooperation of People's Light
 - International Consumer Cooperative Terra Nova Helvetica
- ...and **200 International Cooperatives** under the **Program Sunrise** Initiative.

Legal Disclaimer

The **GoldenEra Blockchain (GEB)** and **SunCoin (SCGE)** are solutions born under the **Program Sunrise** which is brought to you by the **Order of St. John of Jerusalem, Rhodes and Malta, the Supreme Sovereign Order of Hospitallers, Sovereign International Treasury Monetary One** and the **World Sovereign Bank of the Order of Hospitallers**.

