

NOORCHAIN — Tokenomics Overview

Version 1.1 — Public Documentation

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1. Introduction

NOORCHAIN is a Swiss-built, socially oriented blockchain protocol designed around transparency, non-custodial architecture, and long-term sustainability.

The network operates on **Cosmos SDK + Ethermint**, integrating a unique social-layer mechanism called **Proof of Signal Social (PoSS)** — an ethical, non-financial rewards model grounded in real-world positive actions.

The NUR token is a **utility token**, not a financial product.

It is used for:

- submitting and validating PoSS actions
- interacting with dApps such as Curators Hub, NOOR Pay, and CCN Studio
- governance participation
- accessing ecosystem tools

NOORCHAIN follows the Swiss **Legal Light CH** framework, which requires:

- no custody of user assets
- no guaranteed returns
- no investment or speculative messaging
- full transparency in governance and documentation
- strict separation between Foundation, developers, and community actors

This Tokenomics document describes the economic architecture of the protocol in a public, formal, and regulator-friendly format.

2. Fixed Supply & Non-Inflation Principles

2.1 Total Supply (Immutable)

The total supply of NUR is permanently fixed at:

299,792,458 NUR

This quantity is a symbolic reference to the speed of light, reflecting the project's commitment to transparency, universality, and physical invariants.

2.2 No Inflation — Ever

- No new tokens can be minted.
- Supply cannot be increased by governance or by any entity.
- No discretionary expansion of the PoSS reserve is permitted.
- The system operates under a **strict non-inflationary regime**.

2.3 Utility Token Classification

NUR is strictly classified as a **utility token**, not a payment token, security token, or investment instrument.

It is not designed for:

- yield generation
- savings or interest
- speculative financial use

Its value is tied to **protocol utility** only.

3. Genesis Allocation Model (Immutable)

The entire supply of 299,792,458 NUR is allocated at genesis according to a permanent, Swiss-aligned distribution framework.

This structure, referred to as **5 / 5 / 5 / 5 / 80**, is fixed and cannot be modified after network launch.

3.1 Allocation Overview

Allocation Category	Percentage	Amount (NUR)	Purpose
Foundation	5%	14,989,622.9	Governance & public stewardship
Development Entity (Sàrl)	5%	14,989,622.9	Technical development & infrastructure
PoSS Stimulus Pool	5%	14,989,622.9	Early ecosystem support
Pre-sale Reserve (optional)	5%	14,989,622.9	Regulated private fundraising only
PoSS Mintable Reserve	80%	239,833,966.4	Long-term PoSS issuance

These allocations are **hard-coded in genesis.json** and enforced by protocol rules.

3.2 Allocation Purpose & Governance Rationale

Foundation (5%) — Non-Profit Stewardship

The Foundation is responsible for:

- governance and compliance
- public documentation
- NGO and curator partnerships
- audit funding and transparency reports

Funds may only support activities aligned with the Foundation’s non-profit mission. They cannot be used for speculation, investments, or financial operations of any kind.

Development Entity (5%) — Functional Allocation

The Development Entity (a Swiss Sàrl) supports:

- protocol maintenance
- infrastructure operations
- ecosystem integrations
- long-term R&D

This allocation does **not** grant governance authority.

The Sàrl operates independently and may generate revenue through services, not through token manipulation.

PoSS Stimulus Pool (5%) — Early Ecosystem Activation

This pool accelerates early adoption and onboarding:

- NGOs and schools
- verified curators
- pilot programs
- social initiatives aligned with PoSS

It is strictly **non-profit**, non-speculative, and managed under multi-sig supervision.

Pre-sale Reserve (5%) — Optional & Regulated

If activated, this reserve can only be used under:

- Swiss Legal Light compliance
- mandatory vesting schedules
- transparent governance conditions

- multi-sig approvals

If no pre-sale occurs, the reserve may remain dormant or be addressed through future governance procedures (e.g., locked indefinitely or burned).

PoSS Mintable Reserve (80%) — Long-Term Issuance

This is the backbone of NOORCHAIN's economic model.

It provides the tokens used by the PoSS mechanism over multiple decades.

Characteristics include:

- no direct transfers
- issuance only via PoSS rules
- halving cycles every 8 years
- transparent and predictable distribution
- complete prohibition of discretionary minting

This design ensures long-term sustainability without inflation.

3.3 Institutional Roles in the Economic Model

Foundation

Acts as the neutral, public-good governance entity.

Holds 5% allocation under multi-sig control.

Cannot operate custodial or financial services.

Development Entity (Sàrl)

Holds 5% allocation.

Executes technical work but has no governance control.

Multi-sig Committee (3/5)

Executes all on-chain Foundation actions.

Cannot modify fixed supply, allocation percentages, or PoSS structural rules.

Curators

Validate PoSS signals.

Receive 30% of each reward.

Hold no treasury or governance authority.

Community & Participants

Engage with the network, generate PoSS signals, and use dApps.

Remain fully self-custodial.

3.4 Immutable Governance Constraints

The following principles cannot be changed, even by governance:

- total supply (299,792,458 NUR)
- allocation percentages (5/5/5/5/80)
- PoSS reward split (70/30)
- halving period (8 years)
- prohibition of inflation
- prohibition of discretionary minting
- Legal Light CH compliance boundaries

These constraints ensure the protocol remains transparent, ethical, and resistant to manipulation.

BLOC 3 — PoSS Economic Model

4. Proof of Signal Social (PoSS) — Economic Model

PoSS (Proof of Signal Social) is NOORCHAIN's socially oriented reward mechanism. It distributes tokens based on *verified positive actions* within communities, schools, NGOs, and social networks.

PoSS is **not** a financial product, is **not** yield-bearing, and does **not** involve deposits, lock-ups, or APR/APY.

It is a **protocol-defined social reward system**, fully compatible with the Swiss Legal Light CH framework.

4.1 Immutable Reward Split (70/30)

Every validated PoSS action distributes rewards as follows:

- **70% to the participant** submitting the action
- **30% to the curator** validating the action

This split is **hard-coded** and cannot be changed by governance, upgrades, or parameter adjustments.

It ensures fairness, decentralization of social validation, and ethical participation incentives.

4.2 Reward Structure

PoSS rewards are based on a combination of:

- the **BaseReward** defined in genesis
- the **weight** of the action type
- the **halving era**
- the **daily limits**
- the size of the **remaining PoSS Reserve**

Reward formula (simplified conceptual form):

$\text{raw_reward} = \text{BaseReward} \times \text{Weight}(\text{action_type})$

$\text{halved_reward} = \text{raw_reward} / (2^{\text{halving_era}})$

$\text{distributed_reward} =$

$0.70 \times \text{halved_reward}$ to participant

$0.30 \times \text{halved_reward}$ to curator

This ensures transparent, predictable, and capped token issuance.

4.3 Action Type Weights (Genesis Values)

Action Type	Weight
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Micro-donations	2
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Participation	1
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Content creation	3
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Certified CCN	4
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These weights reflect the relative social impact of each signal type.

They can be adjusted through governance (except the 70/30 split).

4.4 Halving Every 8 Years

PoSS uses an **8-year mechanical halving** schedule inspired by scientific cycles rather than financial speculation.

- Year 0 → full reward
- Year 8 → rewards divided by 2
- Year 16 → rewards divided by 4
- Year 24 → rewards divided by 8

- ... and so on

The halving mechanism:

- reduces issuance over decades
 - extends the lifetime of the PoSS reserve
 - provides predictable and transparent token distribution
 - is fully compatible with Legal Light CH (no performance incentives)
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4.5 Daily Limits

To ensure fairness and prevent farming, PoSS defines:

- maximum number of signals per participant per day
- maximum number of validated signals per curator per day
- maximum rewards per participant per day
- maximum rewards per curator per day

These parameters are governance-adjustable within strict boundaries but never affect:

- the fixed supply
 - the PoSS 70/30 split
 - the halving cycle
 - the Legal Light constraints
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4.6 Non-Financial Positioning

PoSS is deliberately designed to avoid financial or investment characteristics.

It is:

- **symbolic**

- **capped**
- **transparent**
- **non-performance-based**
- **not linked to deposits or yields**
- **not marketed as remuneration**

Users do **not** stake tokens, do not lock balances, and do not receive interest.

Rewards originate **only** from the PoSS reserve and are tied exclusively to social impact actions.

This ensures strict compliance with Swiss guidelines.

4.7 Transparency of Distribution

All PoSS-related distributions are:

- recorded on-chain
- traceable
- capped by the halving model
- limited by the PoSS reserve
- visible to the community

There are no hidden emissions, no discretionary minting, and no privileged actors.

5. Long-Term Emission Timeline

The PoSS Mintable Reserve—representing **80% of the total supply**—is structured to support the protocol for multiple decades.

Its emission schedule follows a predictable, mathematically defined pattern based on **8-year halving periods**.

This approach ensures:

- long-term sustainability
- transparent issuance
- gradual reduction of rewards
- alignment with ethical and non-speculative economic principles

5.1 Emission Eras

The PoSS distribution model divides the lifetime of the reserve into distinct eras:

Era	Years	Relative Emission	Description
Era 1	0–8	100% of base rewards	Initial activation period
Era 2	9–16	50% of initial	First halving reduces issuance
Era 3	17–24	25% of initial	Second halving period
Era 4	25–32	12.5% of initial	Third halving period
Era 5+	33+	Continues halving	Long-tail emissions

This schedule is designed to extend the PoSS reserve for **25 to 40 years**, depending on network adoption and actual use of daily limits.

5.2 No Inflation & Predictability

NOORCHAIN’s emission architecture is deliberately simple and transparent:

- There is **no inflation**.
- All tokens used for PoSS originate from the single PoSS reserve established at genesis.
- The halving schedule is **independent of demand, price, or market behavior**.

The system avoids any incentives resembling interest, growth promises, or yield, satisfying Swiss regulatory expectations for non-financial utility tokens.

5.3 Reserve Sustainability

The halving model ensures:

- **slow early distribution** when adoption is growing
- **even slower distribution** once the ecosystem is mature
- **a long-tail emission pattern** suitable for multi-decade operation

This approach is inspired by energy-constrained systems rather than financial markets, emphasizing:

- scarcity
 - predictability
 - ethical use
 - sustainability
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5.4 Alignment With Legal Light CH

The emission timeline has been structured to avoid:

- speculative cycles
- market-influenced issuance
- yield-based mechanics
- any perception of “expected returns”

Instead, the schedule supports:

- social participation
 - community empowerment
 - non-profit mission alignment
 - transparent governance
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5.5 Transition to Maturity

As PoSS emissions decline across halving periods, network utility is expected to shift toward:

- dApps usage
- community-driven value
- partnerships
- organic ecosystem growth

The protocol does not rely on **constant token issuance** to incentivize participation, which ensures long-term economic and regulatory stability.

6. Governance and Economic Safety Architecture

The NOORCHAIN economic model is reinforced by a governance framework designed to protect the protocol, preserve Legal Light CH compliance, and guarantee long-term integrity.

This framework establishes **strict boundaries**, ensuring that neither governance bodies nor external actors can modify core economic rules.

6.1 Immutable Governance Constraints

The following elements are permanently fixed and **cannot be altered** by any governance process, upgrade, multi-sig action, or voting mechanism:

1. Total Supply

The supply is capped forever at **299,792,458 NUR**.

2. Genesis Allocation Percentages

The 5/5/5/5/80 distribution is locked.

3. PoSS Structural Split

The 70/30 distribution (participant/curator) is immutable.

4. **Halving Cycle**

The 8-year halving period cannot be changed.

5. **No Discretionary Minting**

All issuance must come strictly from the PoSS reserve.

6. **Legal Light Restrictions**

Rules preventing custody, yield mechanisms, or financial products cannot be overridden.

These constraints ensure the protocol remains **predictable, transparent, and legally compliant**.

6.2 Governance Powers (Restricted & Monitored)

Governance can adjust certain operational parameters **within strict boundaries**, such as:

- PoSS daily limits
- action type weights
- base reward amount
- curator onboarding rules
- module upgrades
- dApp integrations
- validator parameters

However, governance cannot:

- increase token supply
- alter foundational economic invariants
- repurpose the PoSS reserve
- assign tokens outside of genesis-defined pools

- weaken Legal Light protections

This protects the protocol from economic manipulation and regulatory risk.

6.3 Legal Light CH: Economic Compliance Boundaries

To maintain Swiss non-financial classification, NOORCHAIN must avoid:

- investment-like messaging
- any form of yield-based product
- custody of user funds
- fiat conversions operated internally
- speculative economic structures
- APR/APY language
- revenue promises
- Foundation-operated liquidity pools
- market-making activities

These restrictions apply to:

- the Foundation
- the Sàrl
- the Multi-sig Committee
- ecosystem partners
- all official communications

They form a non-negotiable compliance perimeter.

6.4 Allowed Economic Activities

NOORCHAIN supports a modern utility-token ecosystem within compliant boundaries.

The following activities are permitted:

- **Orderbook exchange listing** (e.g., MEXC)
- **Free-market trading** facilitated externally
- **Utility-driven demand** through dApps
- **Partnerships** with NGOs, schools, and institutions
- **External PSP conversions** (e.g., Mt Pelerin, NOWPayments)
- **Grants and innovation funding**
- **SaaS revenue** generated by the Development Entity
- **Public educational and social-impact programs**

None of these activities guarantee financial return or involve custodial operations.

6.5 Explicitly Forbidden Economic Activities

To preserve the mission and regulatory clarity, the following actions are permanently prohibited:

- Loans, interest, or credit mechanisms
- Internal yield farming or staking return products
- Foundation-operated liquidity pools
- Token sales marketed as investments
- Guaranteed token performance
- Token issuance outside PoSS rules
- Custody of user assets
- Price influence or market manipulation
- Misleading marketing or speculative claims

These prohibitions apply to all governance bodies and all future versions of NOORCHAIN.

6.6 Foundation vs. Development Entity — Separation of Powers

The economic model relies on a strict structural separation:

Foundation (Non-Profit)

- manages 5% pool
- oversees governance
- conducts audits, compliance, documentation
- supports public and social missions
- cannot conduct commercial or speculative activity

Development Entity (Sàrl)

- manages 5% pool
- responsible for protocol development and infrastructure
- may generate revenue independently (SaaS, partnerships)
- cannot access Foundation funds
- cannot influence token supply

This dual-entity structure ensures transparency, neutrality, and professional technical stewardship.

6.7 Multi-sig Committee — Economic Safety Layer

The multi-sig (3/5) enforces on-chain governance decisions.

It can:

- execute approved upgrades

- adjust PoSS parameters within limits
- manage Foundation address
- supervise early-stage operations

It cannot:

- modify supply
- override genesis rules
- conduct financial operations
- act without transparent documentation

This makes the multi-sig an execution body, not a decision-making authority.

7. Market Model and Exchange Principles

NOORCHAIN adopts a market approach that is intentionally conservative, compliant, and aligned with Swiss Legal Light CH.

The goal is to enable free-market accessibility without transforming the project into a financial product or speculative instrument.

7.1 Allowed Market Structure

The following elements are permitted and compatible with the protocol's utility nature:

Orderbook Exchange Listing

Listings on centralized exchanges (e.g., MEXC) operating orderbook systems are acceptable.

These venues:

- do not require liquidity pools operated by NOORCHAIN
- permit market access without financial commitments
- allow decentralized price discovery

External Liquidity Provision

If liquidity exists, it must originate from:

- independent market actors
- fully external DEX or CEX systems
- private initiatives

Neither the Foundation nor the Development Entity can act as liquidity providers.

Utility-Driven Demand

Use of NUR within:

- PoSS participation
- Curators Hub
- NOOR Pay
- CCN Studio
- educational or social programs

dynamically creates natural demand without financial engineering.

External PSP Conversions

Conversions between NUR ↔ fiat are **only** allowed through regulated providers (e.g., Mt Pelerin or NOWPayments).

NOORCHAIN:

- does not operate on/off-ramp systems
- does not custody fiat or crypto
- does not participate in KYC/AML operations

7.2 Forbidden Market Mechanisms

To maintain strict regulatory clarity, NOORCHAIN prohibits:

- internal liquidity pools
- staking APY/APR products
- guaranteed returns or financial performance
- Foundation or Sàrl-led market-making
- token buybacks
- investment-oriented communication
- leveraged or synthetic financial instruments

These actions would compromise Legal Light compliance and create unacceptable regulatory exposure.

8. Founder Compensation and Economic Conduct

NOORCHAIN incorporates a transparent, ethically grounded model for leadership participation, ensuring alignment with long-term project health and Swiss governance norms.

8.1 No Special Access to Funds

The founder or any leadership role:

- cannot access Foundation funds
- cannot modify supply
- cannot direct PoSS issuance
- cannot receive preferential allocation

All compensation must follow formal, transparent channels.

8.2 Development Entity Allocation (5%)

The only structural economic participation is through the Development Entity's **5% allocation**, which follows:

- vesting rules
- no shortcuts
- independent corporate governance
- total separation from the Foundation

This ensures operational sustainability without centralizing economic power.

8.3 Responsible Market Behavior

To preserve ecosystem trust and avoid any perception of market manipulation, governance may enforce:

- **maximum 0.5% monthly sale recommendation** for Sàrl-held tokens
- transparent disclosures for significant transfers
- multi-sig oversight of vested token movements

These rules enhance economic stability and maintain institutional confidence.

8.4 No Influence on Token Price

Leadership and governance bodies must refrain from:

- price-related communication
- performance claims
- speculative commentary
- coordinated buying or selling

The project must remain mission-first, not profit-driven.

9. Economic Integrity & Sustainability

The NOORCHAIN economic model supports:

- **multi-decade longevity** through the PoSS halving schedule
- **strict non-inflation** to protect token scarcity
- **ethical distribution** focused on community and public-good impact
- **clear separation of roles** between governance and development
- **transparent reporting** and regulatory alignment
- **traceable on-chain distribution** for all PoSS rewards

The system avoids dependency on token issuance or speculative cycles.

Instead, it fosters sustainable growth through utility, education, and social value.

10. Closing Summary

NOORCHAIN's tokenomics combine fixed supply, predictable emission, structural fairness, and strict compliance to produce a model that is:

- transparent
- predictable
- non-speculative
- utility-based
- human-centered
- governance-safe
- aligned with Swiss ethical digital asset principles

This architecture ensures that the protocol remains viable for decades and supports a robust ecosystem of dApps, curators, community participants, and partners.

11. Final Conclusion

NOORCHAIN's tokenomics represent a principled, long-term approach to blockchain economics.

The model balances:

- **fixed supply and scarcity,**
- **ethical distribution,**
- **non-financial utility,**
- **legal compliance,**
- **transparent governance,**
- **multi-decade sustainability,**
- **social impact orientation,**
- **decentralized participation,**
- **strict separation of powers, and**
- **predictable PoSS emission cycles.**

By combining a capped supply, immutable allocation rules, and a halving-based distribution schedule, the economic system avoids inflationary risk.

Its architecture prevents speculative behavior while enabling genuine utility through dApps, PoSS interactions, and ecosystem partnerships.

The result is a resilient, Swiss-aligned blockchain economy designed for public good, real-world participation, and transparent governance — not for yield, speculation, or financial engineering.

This document forms a foundational component of the NOORCHAIN public documentation suite and should be referenced alongside:

- Genesis Pack 1.1
- Governance & Legal Framework
- Compliance Framework

- Foundation Statutes
- PoSS Technical Specifications
- Whitepapers v1.1

Together, these provide a complete and coherent economic and governance blueprint for NOORCHAIN 1.0 and its multi-decade roadmap.

12. Document Metadata & Versioning

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Revision Policy

Updates to this document may occur only under the following conditions:

- Clarifications in language
- Updates following governance-approved parameter adjustments
- Formatting or structural improvements

Core economic principles (supply, allocation, PoSS structure, halving, Legal Light constraints) **cannot** be changed.