

# Trixta Tokenomics — Foundation Model

**Maintained by:** Trixta Foundation (non-profit, to be incorporated as a Swiss **Stiftung** in Zug, Switzerland)

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**Network:** Solana

**Settlement currency:** USDC (native)

**Epoch cadence:** 1 hour

**Weekly operator window:** Wednesdays 8:00 AM–12:00 PM ET (12:00–4:00 PM UTC)

**Time standard:** All times shown in **ET** (observes **EST/EDT**).

**Status: Proposed (Pre-Launch) Draft.** The details below describe how the Trixta network is designed to operate and may be refined by the Trixta Foundation prior to launch.

**Plain-English notice.** This page describes how the Trixta network is designed to operate. It is not an offer of securities or a promise of price, profit, or yield. Parameters shown are **governance-tunable** and may change via on-chain votes with public change logs. Prior to launch, the Foundation may adjust parameters to address security, compliance, or operational readiness.

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## 1) What Trixta does

Trixta routes workloads across **decentralized compute** (DeCloud nodes), **local Wasm**, and **SaaS APIs**, with policy-based routing for cost, latency, and privacy. Users pay in **USDC**; only the **decentralized compute** slice is tokenized.

- **Users / Spaces:** Deposit USDC, submit jobs, settle on completion.
- **Operators (CPUs/GPUs):** Stake **Trixta (TRIX)** to advertise capacity and SLO tier; fulfill jobs; get paid **USDC + TRIX**.
- **Verifiers / Oracles:** Attest receipts, SLOs, and anomalies; their work gates minting and slashing.

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## 2) The core model (at a glance)

## Hybrid design:

1. **Work-Token staking (supply security).** Operators stake Trixta (TRIX) to participate; poor performance is slashable.
2. **Burn-and-Mint on DePIN only (demand linkage).** When jobs run on decentralized compute, the protocol **burns TRIX** proportional to USD spend for that epoch and **mints** a fraction to reward supply.
3. **Programmatic buybacks + insurance.** A portion of protocol margin funds buybacks (burned) and an insurance pool for job failures.

Why this works: users get a clean **USD UX**, while the token captures *only* the crypto-native part of the system (decentralized compute supply and its verifiers).

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## 3) Payments & user experience

- Users pre-fund USDC balances. Jobs are quoted in **USD**, settled in USDC.
  - Routing chooses SaaS / Wasm / DeCloud per policy (cost, latency, privacy).
  - **Only DeCloud jobs** drive burns/mints; SaaS/Wasm jobs pay normal fees (supporting insurance and buybacks).
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## 4) Operator incentives

- **Payout split: 80% USDC / 20% TRIX** (TRIX auto-staked; 7-day unbond).
  - **SLO tiers:** Gold (higher reliability) earns higher TRIX multipliers and requires more stake; Silver (base); Bronze (discounted).
  - **Weekly optional conversion window:** Operators may convert a **small portion** of that week's TRIX rewards to USDC at a **24-hour TWAP** with a modest haircut. A **governance-capped** share of the buyback budget funds this OTC window; the rest executes market buybacks.
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## 5) Burns & Mints (BME on DeCloud)

Per 1-hour epoch:

- **Burn:** USD spent on DeCloud jobs is translated (via a TWAP) into **TRIX burned**.
  - **Mint:** The protocol mints  $r \times \text{burn}$  to reward supply.
    - **Initial r:** 0.40 (deflationary bias)
    - **Target r (when metering is stable):** 0.60
    - **Governance-tunable with daily rate-limits** to prevent whiplash.
  - **Distribution of mints:** ~95% to operators (pro-rata, QoS-weighted), ~5% to verifier/restaker roles.
  - **Accounting:** Usage burns (drive mints) and treasury buyback burns (do not drive mints) are tracked separately for transparency.
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## 6) Staking & slashing (supply security)

- **Stake per unit** scales by hardware class (H100, A100, L40S, 4090, vCPU) and by SLO tier.
  - **Composition:** At least **30% must be liquid TRIX**; up to **70%** can be non-transferable **bootstrap stake credits** (fully slashable; convert 1:1 to liquid TRIX after sustained SLO-compliant service).
  - **Slashing:** Minor SLO misses incur small stake penalties (capped); repeated or fraudulent behavior is penalized more and can trigger **auto-quarantine** (routing paused) until restaked.
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## 7) Oracles & safeguards

- **External prices (independent):** Pyth is primary with **Switchboard** fallback. We use TWAPs with **staleness/confidence checks** and **divergence guards** before any price is

used for burns, mints, or OTC pricing. If feeds are unhealthy, actions are **paused** and retried—jobs and USDC payouts continue.

- **Internal facts (Trixta Oracle Layer):** Decentralized reporter committees on Trixta aggregate **usage**, verify **SLO/QoS**, and flag **anomalies**. Their **EpochReports** gate minting alongside the price oracles. A “shadow price” comparator can **pause** sensitive actions if DEX prices diverge materially from oracle prices.
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## 8) Treasury, buybacks & insurance

- A **governance-set portion** of non-DeCloud router margin (initially about **one quarter**, tunable within a published range) funds:
  1. **OTC operator conversions** (a capped share of the above budget), then
  2. **Programmatic market buybacks** (burned).
- An **insurance pool** is funded from DeCloud spend and router margin; it can auto-compensate a portion of verified failures, with larger events reviewed by governance.

### 8A) Programmatic Revenue Buyback-and-Burn (RBB) Mechanism

- A portion of protocol surplus revenue is allocated to a rule-based Buyback-and-Burn module (“RBB”). This mechanism is fully programmatic, non-discretionary, and operates under transparent, governance-tunable parameters.
- **Revenue Pool.** Non-DeCloud routing margin, platform fees, and other protocol revenues are pooled in USDC and allocated per epoch:
  - X% → Operator OTC conversion window
  - Y% → Programmatic buybacks (burned)
  - Z% → Insurance pool( $X + Y + Z = 100\%$ ; parameters rate-limited.)
- **Buyback Execution.**
  - Buybacks are executed automatically against TWAPs using approved venues with staleness and divergence guards.

- Purchases are sent directly to a burn address.
  - Buyback burns do not trigger minting and are accounted separately from usage-driven burns.
  - **Pauses & Safeguards.**
    - Buybacks automatically pause under oracle health failures, liquidity thresholds, or governance timelocks to prevent manipulative behavior.
    - Pauses do not affect user job routing or operator payouts.
  - **Transparency.**
    - All buyback parameters, revenue flows, and burn totals (usage vs buybacks) are published in real-time dashboards.
    - Governance can modify allocation percentages subject to rate-limits and timelocks.
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## 9) TRIX-R (foundation raise class)

- **What it is:** A redeemable class (SPL Token-2022) with **Transfer Hook** controls; redemptions are **at NAV, subject to eligibility and policy**, from a **ring-fenced treasury** held in conservative, on-chain, short-duration assets. Eligibility standards and transfer controls will reflect applicable **Swiss and international regulations** and Foundation policy.
  - **What it is not:** TRIX-R does **not** receive protocol mints or buyback flows; it is ring-fenced and does not vote in governance.
  - **Liquidity & risk:** The treasury maintains a liquid buffer, publishes composition in real time, and undergoes periodic attestations. Eligibility and KYC may apply depending on jurisdiction.
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## 10) Governance & decentralization

- **Day-1:** 3-of-5 multisig with a 24-hour timelock controls treasury/oracle/policy changes; an emergency pause exists for critical failures (with strict scope and sunset).

- **Planned DAO migration:** After sufficient usage and security data, the Foundation intends to migrate to a **Realms (SPL Governance) DAO** (link coming soon). Indicative KPI gates include weekly DeCloud spend, active capacity, reliability, liquidity depth, and attribution coverage.
  - **Voter alignment:** Staked TRIX governs; optional **time-locks** can boost voting weight (no extra yield). Parameter changes are rate-limited by the programs to prevent governance whiplash.
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## 11) Parameters (initial; governance-tunable)

The following reflect current launch settings and may evolve via on-chain governance subject to program rate-limits.

- **Operator payout split:** 80% **USDC** / 20% **TRIX** (TRIX auto-staked; 7-day unbond)
  - **Mint ratio  $r$ :** start 0.40; target 0.60 (with daily change limits)
  - **OTC operator window:** Wed 8:00 AM–12:00 PM ET; 24-hour TWAP pricing with a modest haircut; **per-operator cap** applies; **global cap** is a small fraction of the weekly buyback budget; remainder executes market buybacks
  - **Stake (per 24/7 unit):** H100 2,500 • A100 1,600 • L40S 800 • 4090 600 • vCPU (16-core pack) 150 (× SLO multiplier)
  - **Liquid stake minimum:** 30% of required stake
  - **Insurance funding:** small percentage of DeCloud spend + router margin (published in dashboards)
  - **Oracles:** Pyth primary, Switchboard fallback; TWAPs with health checks and divergence guards
  - **Accounting transparency:** Burns from *usage* vs *treasury buybacks* are tracked and published separately
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## 12) Transparency & change management

- **Dashboards (link coming soon):** Burns by bucket ([B\\_usage](#) vs [B\\_treasury](#)), mints, [r](#) and rate changes, USDC spend split (DeCloud vs non-DeCloud), OTC window requests & fills, oracle health (source, staleness, confidence), insurance funding & payouts.
- **Change logs (link coming soon):** Any parameter change is published with rationale, vote links, and effective times.
- **Audits & attestations (program link coming soon):** Smart contracts and treasury venues undergo periodic reviews with public reports.

## 12A) Security & responsible disclosure

- **Emergency-pause scope:** May pause burns/mints and OTC pricing; **does not** halt user job execution or USDC payouts. Pauses sunset unless ratified by governance.
- **Audits cadence:** External security reviews of programs; treasury venue attestations; public postmortems for incidents.
- **Contact:** [security@trixta.org](mailto:security@trixta.org) (PGP key and bounty policy — link coming soon).

## 12B) Key risks (non-exhaustive)

- **Oracle health:** If primary and fallback feeds are unhealthy or diverge, sensitive actions pause; prolonged pauses can delay burns/mints and OTC pricing.
- **Attribution faults:** Incomplete or late EpochReports pause minting until corrected.
- **Liquidity:** Thin DEX liquidity may widen TWAP error bounds, increasing pauses.
- **Governance capture/whiplash:** Mitigated via rate-limits and timelocks but still a risk.
- **Regulatory uncertainty:** TRIX-R eligibility, transfer controls, or disclosures may evolve with law.

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## 13) Frequently asked questions

### **Why not make all jobs pay in TRIX?**

Because users need stable, predictable pricing. We keep the token focused on securing decentralized supply and linking value to that usage.

### **Can operators avoid token exposure?**

Yes—most cash flow is paid in USDC. The TRIX portion is auto-staked with a short unbond, plus an optional weekly OTC conversion for a small slice.

### **How do you prevent gaming of mints?**

Per-job receipts, randomized audits, restaked verifier committees, and strict gating: no minting without both a healthy price feed and a valid EpochReport.

### **Does TRIX-R affect TRIX supply?**

No. TRIX-R is ring-fenced for redemptions at NAV and does not drive mints or buybacks.

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## **14) Legal disclaimer**

The Trixta Foundation (a Swiss non-profit **Stiftung** to be incorporated in Zug, Switzerland) publishes this tokenomics model for informational purposes only. Nothing herein constitutes an offer to sell or a solicitation to buy any token, security, or financial instrument, nor does it constitute a prospectus or key information document under Swiss or other laws.

Forward-looking statements (including planned parameters and roadmap items) are subject to change by governance and program safeguards. Eligibility, KYC/AML, and jurisdictional restrictions may apply to certain instruments such as TRIX-R. Use of the network is at your own risk.

**Governing law & venue (site terms placeholder):** To the extent applicable, matters relating to this page and Foundation disclosures are intended to be governed by Swiss law with a venue in Zug, Switzerland (subject to final counsel review).

**Data protection:** Foundation data practices are intended to comply with Swiss FADP and other applicable privacy laws.

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## **15) Glossary (quick)**

- **Trixta (TRIX):** The network's utility token used for staking and supply incentives.
- **TRIX-R:** Redeemable raise class with Transfer Hook controls; ring-fenced treasury; no governance rights.

- **BME (Burn-and-Mint Equilibrium):** Mechanism where usage burns TRIX and a fraction is minted to reward supply.
- **SLO (Service Level Objective):** Reliability/latency targets that affect pricing, stake, and rewards.
- **TWAP (Time-Weighted Average Price):** Averaged price over a window used for settlement and accounting.