



Terra Yield Token (TYT) White Paper

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Disclaimer

This White Paper is a work-in-progress document provided for informational purposes only. It is not an offer or invitation to invest, nor does it constitute a public solicitation, financial promotion, or investment advice. The purpose of this document is to inform partners, collaborators, and token holders about the Terra Yield Token (TYT) project and its current strategic direction.

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1 Executive Summary

Terra Yield Token (TYT) is a Real-World Asset (RWA)-backed cryptocurrency powered by nature, sustainability, and blockchain. TYT is backed by the carbon-sequestering power of **basalt** and is designed for real-world use in regenerative commerce. TYT combines climate-positive dividends, tangible natural collateral, and transactional utility—making it one of the most innovative tokens in the GreenFi space.

Unlike typical speculative assets, TYT is rooted in the real economy: it is backed by **1 kilogram of tokenized basalt**, mined under license in Albania. This basalt is eligible for carbon sequestration via **Enhanced Rock Weathering (ERW)**, and a portion of the resulting **CO₂ certificate revenues** will be paid to token holders as annual dividends. Furthermore, TYT is already accepted as a **currency** in the **TarCasso Shop**—where regenerative and longevity-focused products like **Extra Virgin Olive Oil (EVOO)** can be purchased.

TYT is live on the **Polygon blockchain** as an ERC-20 smart contract and is paired in a public liquidity pool with **USDC**, ensuring tradability and price transparency.



2 Project Background

- **Token Name:** Terra Yield Token (TYT)
- **Blockchain:** Polygon (Ethereum Layer 2)
- **Token Type:** ERC-20, Utility Token
- **Backing Asset:** 1 kg of Basalt (valued at €0.10/kg)
- **Total Supply:** 1 Billion TYTs created via smart contract
- **Live Pairing:** TYT/USDC Liquidity Pool
- **Initial Use Case:** Accepted as payment in the TarCasso regenerative product store
- **Vision:** To build the leading regenerative currency for GreenFi, Climate Finance, Sustainability, and Longevity sectors

3 Mission & Vision

Mission: To create a decentralized, climate-positive financial instrument that rewards both environmental regeneration and individual participation in sustainable commerce.

Vision: A currency that enables carbon removal, supports regenerative agriculture, and funds the transition to a more sustainable future.

4 Real-World Asset (RWA): Basalt

Each TYT token is backed by **1 kilogram of unmined basalt**, provided under a contractual agreement with **Balkan Basalt**, which holds a government-issued mining license valid until 2050.

Basalt is more than just a mineral—it's a **natural carbon sink** and **soil regenerator**.

Why Basalt?

- Abundant, mineral-rich, and environmentally safe
- Used in regenerative agriculture as **basalt flour**
- Supports **Enhanced Rock Weathering (ERW)**, a method of **permanently sequestering CO₂** in soil

CO₂ Sequestration Potential

- 1 ton of basalt can bind **0.3 to 0.5 tons of CO₂**
- Verified by organizations such as InPlanet and Isometric



- Provides access to the growing **carbon credit market**

Value Consideration

While 1 kg of basalt currently has a raw market value of approximately **€0.10**, the TYT does **not aim to provide price parity** with this underlying asset. Instead, the **value of TYT stems from:**

- **Long-term durability** of the underlying basalt
- **Green income streams** via CO₂ credit sales
- **Usability** in the regenerative economy (e.g. TarCasso Shop)
- **Future redemption models** via basalt flour buffers

5 Green Dividends

Token holders are entitled to **annual dividends** from:

- **10% of gross profit** from basalt mining
- **10% of CO₂ certificate sales** resulting from Enhanced Rock Weathering projects

These “Green Dividends” reward holders not from speculation but from **real, measurable environmental impact**.

6 Redemption Shop & Buffer Model

To increase real-world utility, a **Basalt Flour Redemption Shop** will be implemented.

- TYT can be **redeemed 1:1** for **1kg of basalt flour**, packaged as green fertilizer
- Redemption is managed by the **Terra Yield**, which maintains a respective **buffer inventory**
- The buffer is regularly replenished to meet the redemption demands of TYT holders.
- The shop is built using WooCommerce and provides full transparency of buffer stock

This model ties TYT not just to industrial mining but to **consumer-facing regenerative use**.

7 TYT as a Functioning Currency: Redemption, Acceptance, and Purchasing Power

One of the core innovations of the **Terra Yield Token (TYT)** is that it is not only backed by a tangible real-world asset (basalt), but also functions as a **working digital currency** with real **purchasing power**.



Thanks to a signed **Acceptance Agreement** between **Terra Yield UAB** and its first ecosystem partner **TarCasso**, TYT holders can already **redeem their tokens at any time** for valuable, regenerative products — including **high-quality Extra Virgin Olive Oil (EVOO)**, **basalt flour**, and other longevity-related food and wellness items. This agreement ensures that TYT tokens are accepted as payment through the **TarCasso online shop**, where product prices are transparently displayed in both fiat and TYT equivalents.

In other words, TYT already behaves like a currency — not just a tradable token.

This **redemption model** is implemented via a WooCommerce-based e-commerce system, where TYT can be used seamlessly at checkout. Behind this lies a **buffer inventory model** managed by the Issuing Entity, which guarantees product availability for redemptions without requiring a 1:1 physical reserve for all outstanding tokens. This model ensures both **user experience** and **financial scalability**.

7.1 Beyond the Pilot: Building the TYT Acceptance Network

The partnership with TarCasso is only the beginning. The **long-term vision** is to expand the TYT acceptance network by onboarding:

- Regenerative food stores
- Longevity product brands
- Sustainable lifestyle and wellness platforms
- Local cooperatives and farming collectives
- Carbon-credit-linked marketplaces

Each new **store partner** that joins strengthens the TYT's value proposition as a **GreenFi-native currency**, making it **spendable** across real, regenerative economies.

7.2 More Than an RWA Token — A Currency for Regenerative Value

Just as the U.S. dollar was once backed by gold but used far beyond its underlying reserve, **TYT is positioned to function as a digital currency that is anchored in basalt — but unbound in value.**

The token's **purchasing power** is derived from:

- Its asset-backing (basalt)
- Its **climate utility** (CO₂ capture and green dividends)
- Its **merchant acceptance** for regenerative goods
- Its role in the **regenerative commerce movement**



This combination allows TYT to emerge not just as a real-world asset token, but as a **sustainable currency for the GreenTech, Regenerative Food, and Longevity sectors**.

8 Tokenomics

The Terra Yield Token (TYT) has been designed with **economic transparency, regenerative value creation**, and **ecosystem sustainability** in mind. Its tokenomics framework supports growth, incentivizes participation, and aligns stakeholder interests over the long term.

8.1 Total Supply and Issuance

- **Total Token Supply:** 1,000,000,000 TYT (fixed, no minting)
- **Token Standard:** ERC-20 (Polygon blockchain)
- **Smart Contract Audited:** [Audit in progress – results to be published]

Each TYT is collateralized by **1 kg of basalt**, currently valued at **€0.10/kg**. The TYT is not meant to track this value directly but leverages **basalt's long-term durability, climate utility**, and **economic potential** (via CO₂ certificates and regenerative commerce) as its intrinsic value base.

8.2 Token Allocation Breakdown

Allocation	Amount	% of Total Supply	Lock-Up / Vesting	Purpose
Public Sale & ICO	600,000,000 TYT	60%	No lock-up unless incentivized	Distributed via ICO and exchange sales
Private Placement (Institutional)	200,000,000 TYT	20%	Subject to private vesting	Strategic partners and early backers
Marketing & Ecosystem Growth	50,000,000 TYT	5%	12-month linear vesting	Promotions, airdrops, referral campaigns
Strategic Advisors & Partners	50,000,000 TYT	5%	6-month cliff, 12-month vesting	Ecosystem development, partnership incentives
RWA Provider	50,000,000 TYT	5%	Treasury management	Liquidity incentives, community grants, DAO rewards
Team and Founders (Wharf Plan)	50,000,000 TYT	2.5%	12-month cliff, 24-month vesting	Long-term alignment and operational resilience



Note: All lock-ups and vesting schedules will be executed via smart contract with full transparency.

8.3 Use Cases for TYT

TYT is not only backed by a real-world asset (RWA) — it also plays several critical roles in the ecosystem:

- **Medium of Exchange:** Accepted in the TarCasso Shop for EVOO and regenerative products. Further partnerships with sustainable retailers are in development.
- **Green Dividend Entitlement:** Token holders receive dividends from CO₂ credit sales and mining-based gross profits (10% in each case).
- **Liquidity Mining & Staking:** TYT and LP tokens (TYT/USDC) can be staked to earn bonus rewards.
- **Content & Influencer Economy:** TYT can be used to pay regenerative influencers and educators — forming a new impact economy.
- **Governance (Future):** In later stages, TYT may function as a voting token within a DAO-like structure for treasury proposals and partnership decisions.

8.4 Liquidity and Market Strategy

- A **TYT/USDC Liquidity Pool** has been launched on a decentralized exchange (DEX) via Polygon.
- LPs receive **trading fees** and **TYT incentives** as rewards.
- A portion of tokens from the treasury (2.5%) are reserved for **liquidity bootstrapping**, including:
 - LP staking programs
 - Time-based rewards for early liquidity providers
 - Potential liquidity insurance (exploratory)

To mitigate impermanent loss and price slippage, Terra Yield may also introduce **dual-token stability incentives**, including rebasing mechanisms and automated liquidity burns.

8.5 Redemption Mechanism & Basalt Flour Buffer

Token holders will have the opportunity to **redeem TYT** for **basalt flour**, an agricultural-grade green fertilizer:

- A **Basalt Flour Store** (WooCommerce-based) is integrated on the Terra Yield website.
- Token holders can pay with TYT and receive branded basalt flour bags delivered.
- The **buffer stock of basalt flour** is held and restocked by the Issuing Entity (not Balkan Basalt).



- Prices are indexed against retail basalt flour value (~€1/kg), offering a **natural price anchor** for TYT.

This model ensures utility beyond speculation, providing a **tangible redemption path** and tying TYT to consumer sustainability.

8.6 Treasury and Deflationary Dynamics

To maintain long-term value and reduce excessive supply, the Terra Yield tokenomics includes:

- **Token Burns:** From store sales (e.g., 5–10% of each purchase could be burned)
- **Buyback Programs:** Funded from CO₂ certificate revenues
- **Treasury Rebalancing:** To support LPs, fund partnerships, or stabilize the token

A quarterly **transparency report** will be published, including:

- Circulating supply
- Treasury activity
- Burn events
- Dividend distributions

8.7 Price Discovery and Valuation Outlook

TYT is not pegged to the market price of basalt but is supported by:

- The **environmental value** of basalt (CO₂ sequestration)
- The **economic value** of dividend flows
- The **utility value** in commerce and influencer networks

The market is expected to price TYT based on a combination of:

- Tangible use cases (e.g., shop acceptance)
- Forward CO₂ dividend potential
- Redemption utility
- Liquidity and narrative growth

9 Regulatory & Compliance Position

Terra Yield considers TYT to be a **utility token** under the EU's current regulatory frameworks.

- It is **not a security token**: No equity, profit-share, or governance rights are conferred



- It is **not a stablecoin**: Value is not pegged to fiat or other financial assets
- It is used for **redemption, commerce, and environmental impact**, not capital gains
- No capital market prospectus is required

A full **Compliance Statement** is published on the Terra Yield website.

10 Roadmap

Q2 2025

- Token creation & smart contract deployment
- Liquidity pool and first acceptance use case (TarCasso)
- TarCasso TYT Acceptance launch

Q3 2025

- Private Placement
- Redemption shop live
- Partner onboarding

Q4 2025

- First CO₂ credit sales
- First dividend projection report

2026+

- Expanded utility and market adoption
- Listing on Tier 2 exchanges
- DAO evolution and green treasury management

11 Opportunities & Risks

Opportunities

- Early leadership in GreenFi / RWA tokens
- CO₂ credits market growing fast
- Real-world commerce and loyalty use case



Risks

- Regulatory uncertainty
- Dependence on Balkan Basalt's performance
- Market volatility of TYT/USDC pool

Mitigation: Buffer models, clear disclosures, and decentralized ecosystem governance

12 Final Statement

Terra Yield Token (TYT) is a new breed of regenerative cryptocurrency: ✓ Backed by nature

✓ Rewarding environmental action

✓ Usable as a currency

From basalt mines to the digital checkout—TYT is GreenFi that grows.

For more details, visit [www.terrayield.com]