GrantiX

Empowering Social Change with Blockchain Technology.

Whitepaper

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GrantiX – Empowering Social Change with Blockchain Technology

Empowering Social Change with Blockchain Technology.

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December, 8th 2025

What is the key problem?

Low donor trust



Insufficient funding for social entrepreneurs

Public dissatisfaction
with the lack of visible results

Stakeholder problems – details

Today’s social impact ecosystem is structurally broken for all key stakeholders — investors and donors, social entrepreneurs, and society at large.



Investors & donors

Investors & donors operate almost blind. In most legacy setups there is no reliable, real-time way to verify where funds actually go or what concrete outcomes they achieve. Reporting is fragmented, delayed, and often non-standardized, which makes it nearly impossible to compare projects or track impact over time. This creates serious reputation risk: supporting opaque initiatives can easily lead to scandals if funds are misused or results are overstated. On top of that, there is effectively **no ROI framework** for most impact capital — around 70% of projects fail to provide clear, quantifiable success metrics or outcome dashboards, so even well-intentioned donors are left with “trust us” instead of evidence.



Social entrepreneurs

Social entrepreneurs are trapped on the other side of the same broken system. They can waste **up to 40%** of their resources on bureaucracy, compliance, manual reporting and fundraising administration instead of solving real problems on the ground. Even strong, mission-driven teams **struggle to attract funding** because donors increasingly distrust the sector after repeated cases of misallocation and fraud. Without standardized, verifiable impact data and automated proof of execution, honest projects are forced to compete on storytelling rather than transparent performance.

Stakeholder problems – details

Today’s social impact ecosystem is structurally broken for all key stakeholders — investors and donors, social entrepreneurs, and society at large.



Society

For society, the result is systemic underperformance. According to OECD data, **only about 12% of social projects reach true sustainability**, while the majority either stagnate or disappear after initial funding cycles. The wider public remains largely uninformed: people have almost **zero structured knowledge** about which projects exist, what their real goals and methods are, and what results they actually deliver — and therefore cannot meaningfully influence where capital flows. In other words, those who provide the funds, those who build solutions, and those who are supposed to benefit from them are disconnected by a system that lacks transparency, accountability, and shared data.

Our solution

We connect donors, social projects, and experts on GrantiX — an innovative blockchain platform for charity integrating cutting- edge Web3 and AI technologies



Why solve this right now?



ESG & Impact Investing Boom

By 2026, social investments might reach $3 trillion (Morgan Stanley), but investors demand transparency and measurability. Without tech disruption, the sector will hit a trust ceiling



Technological Readiness

Technological Readiness. Blockchain is now a social impact staple — 72% of top 100 NGOs use it to track donations (World Economic Forum, 2024). GrantiX leverages a proven tool, not hypothetical solutions.



Legitimacy Crisis

After high-profile scandals (e.g., fund mismanagement), donors are flocking to open-source projects with public ledgers

Solution – GrantiX platform

Solution. We will connect social investors, donors, social projects, and experts on GrantiX — an innovative blockchain platform integrating cutting-edge Web3 and AI technologies.

Investors & donors

Lack of trust

Lose control: No way to verify where funds go or what outcomes they achieve. Opaque reporting leads to scandals and mistrust. 70% projects lack clear metrics. (Stanford Social Innovation Review)

GrantiX Solutions

Token holders vote to fund high-potential projects, not just "donor favorites". AI identifies projects with scalable impact, reducing failure rates. Connect NGOs, volunteers, and experts to strengthen projects, educate their community

Social Entrepreneurs

Lack of trust

Up to 30% of resources are wasted on bureaucracy and legal requirements. Struggle to attract funding due to distrust. Loss of breakthrough initiatives: Only 12% of projects survive long-term

GrantiX Solutions

Smart contracts automate fundraising, payouts, reporting, etc. Standardized, tamper-proof reporting builds projects’ donor trust and is 100% legal. Spend time solving problems, not filling out forms or worrying about next rent payment

Society

Lack of effectiveness

Lose control: No way to verify where funds go or what outcomes they achieve. Opaque reporting leads to scandals and mistrust. 70% of projects lack clear metrics. (Stanford Social Innovation Review)

GrantiX Solutions

Track every donation in real-time via blockchain. AI analyzes on-chain data and provides independent recommendations. Funds release only after results are verified. Blockchain eliminates opaque reporting

Where WEB2 meets WEB3: GrantiX in action

GrantiX is not just a bridge between traditional finance and Web3 — it is a new, unified ecosystem where legacy philanthropy and decentralized innovation coexist

Web2-friendly interface

Intuitive dashboards for donors and NGOs removes unnecessary crypto jargon, while under the hood Web3 infrastructure delivers transparent blockchain transactions, tokenized impact, and DAO-driven governance. A hybrid impact tracker provides real-time analytics that both a non-technical donor and a seasoned crypto expert can rely on, and cross-community collaboration between social entrepreneurs and Web3 builders unlocks scalable, repeatable solutions

At the core of this ecosystem is the $GRANT token

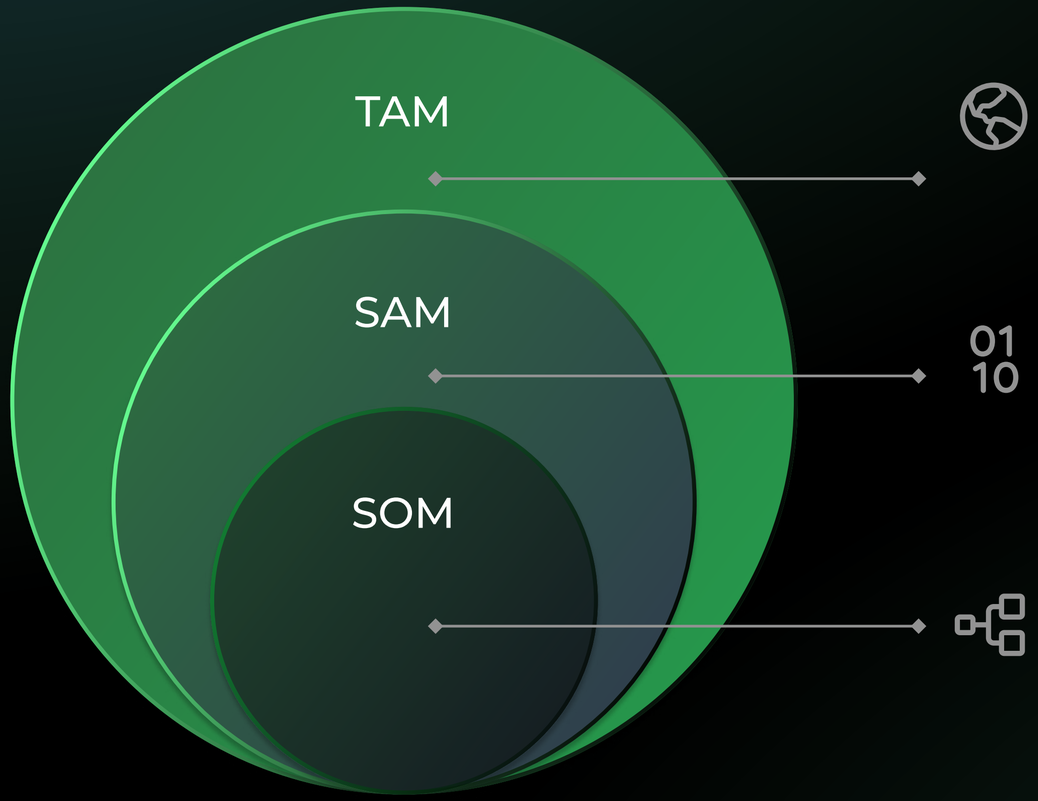
Fixed-supply digital asset with a hard cap of 1,000,000,000 tokens. The absence of inflation creates scarcity that supports long-term value and demand, while full on-chain transparency makes every transaction auditable. This combination underpins predictable token economics and trust for both investors and projects. Staking and farming are designed with purpose: users can stake $GRANT or LP tokens for high APY, while an automated “social staking” mechanism routes a predefined percentage of yields directly to vetted social projects. This aligns portfolio growth with measurable real-world impact, turning every reward cycle into a win-win for capital and communities



GrantiX also supports sophisticated vesting for visionaries across the ecosystem

Investors receive gradual token unlocks aligned with long-term objectives, founders can claim tokens as they hit key milestones or structure a decentralized SocialFi endowment, and communities can be rewarded through tailored distribution schedules that deepen engagement and loyalty. On the donation side, GrantiX is asset-agnostic by design: supporters can contribute using ERC-20 tokens, assets on L2 networks, stablecoins, or NFTs across EVM-compatible blockchains. Smart contracts ensure that 100% of donated value is allocated according to predefined rules and reaches projects on time, transforming digital capital and digital art alike into real-world change. To uncover the full power of GrantiX and explore features tailored to your specific impact goals, organizations and investors are invited to connect with the team as the platform’s capabilities continue to roll out

Market Size Analysis: Social Impact & Philanthropy (2021-2025)



$1.65 trillion

Global philanthropy and social impact market (offline + online, Web2 + Web3)

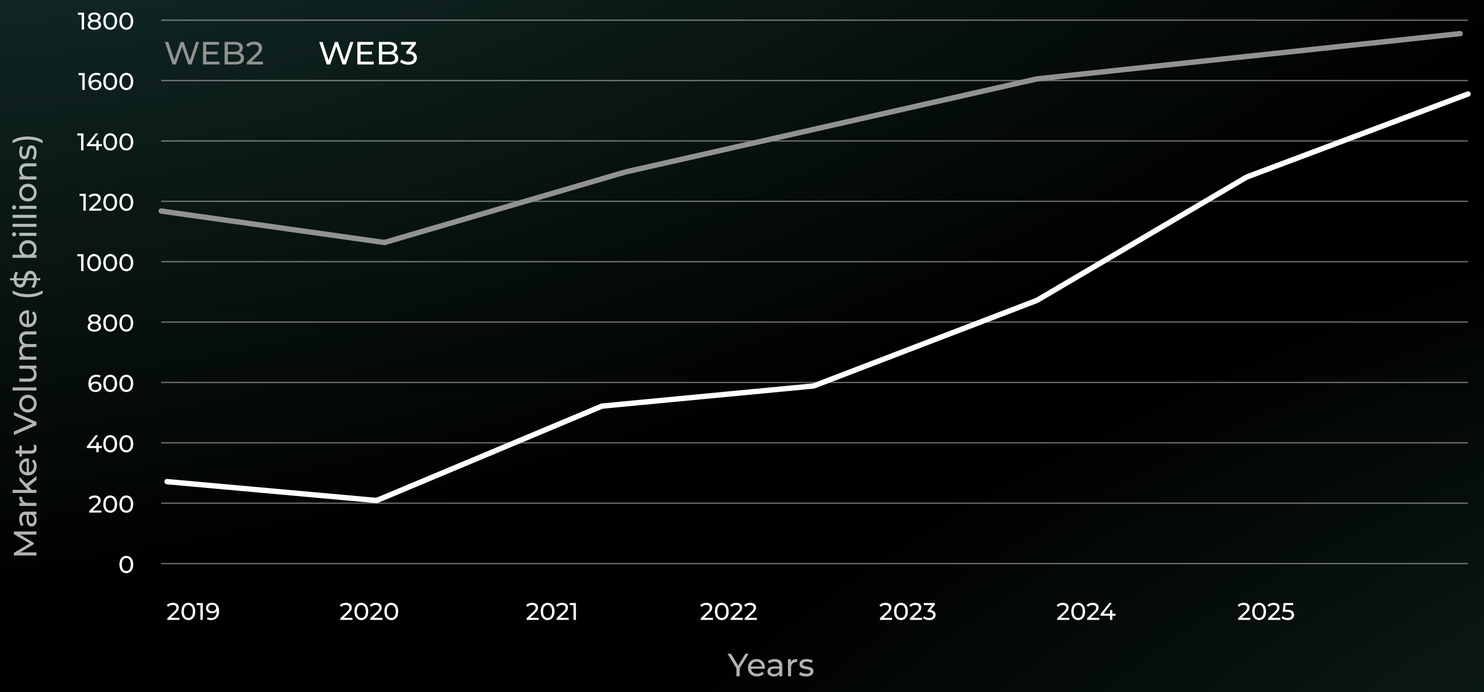
$970 Billion

Digital philanthropy channels (Web2 & Web3 platforms)

$585 Billion

Serviceable obtainable market (SOM) currently addressed by existing Web3-focused competitors (Gitcoin, The Giving Block and Binance Charity)

Growth & Potential: The $1.7T Social Sector in the WEB3 Era



COVID-19 dramatically reduced offline donations and accelerated the shift toward online giving, triggering explosive growth in digital philanthropy driven by rising expectations around transparency and ESG alignment.

Crypto charity and SocialFi projects are rapidly gaining traction, and by 2030 up to one in three social dollars can flow via blockchain infrastructure rather than traditional rails

Web3 is already growing faster than Web2, and GrantiX is positioned not merely to capture an existing market, but to help create an entirely new one at the intersection of blockchain and the social sector. As the social impact space becomes the next major FinTech revolution, GrantiX — acting as a catalyst for a $1.7T transition from Web2 to Web3 — stands to receive a disproportionate share of the benefits while reshaping how capital moves into high-impact projects. (Data sources WEB2: Giving USA, CAF World Giving Index, Statista. WEB3: The Giving Block, Binance Charity, CoinDesk.)

Business model

GRANT token holders gain value not only from potential price appreciation but from a diversified, sustainable revenue model that supports long term ecosystem growth

Social Impact Fee

GrantiX introduces a Social Impact Fee on all donations, charging 1–3% per transaction versus the 10–15% typically seen on traditional platforms.

This low commission structure is designed to attract mass users while simultaneously funding core platform operations.

Performance based Success Fee of 0–20% of each project's fundraising goal aligns GrantiX with positive outcomes: the platform profits only when social projects succeed, while in unsuccessful cases funds are returned to investors automatically

Direct Ecosystem Funding

Further reinforces this model through donations made directly to the GrantiX Charity Foundation, sourced from grants, Web2 partnerships and community tipping, with 100% of these inflows reinvested back into the GrantiX ecosystem

DeFi Yield Engine

DeFi Yield Engine generates earnings from liquidity and farming pools and from staking, targeting up to 15% APY via risk adjusted DeFi strategies

All funds involved in this module are managed exclusively through audited DeFi protocols, ensuring that yield generation is combined with robust security and risk controls

Go-to-Market Strategy

GRANT token holders gain value not only from potential price appreciation but from a diversified, sustainable revenue model that supports long term ecosystem growth

Target Audience

GrantiX targets a core audience of social entrepreneurs, NGOs and impact investors, with an expanded focus on individual donors and government or municipal partners

Monetization Model

The monetization engine combines a 2% fee on donations and a 5% success fee for funded projects, tokenization at the level of 20% through staking rewards and governance rights, and premium services contributing 10% through white-label blockchain solutions for NGOs

Distribution Strategy

Distribution is digital-first, driven by viral campaigns on social media, co-branded initiatives with the top 100 NGOs, and educational webinars with Web3 thought leaders that convert skeptics into advocates

User Engagement

User engagement is driven by gamified impact, where participants earn $GRANT tokens for donations, sharing and community votes, and by real-time dashboards that let donors see their impact, for example: “Your $100 planted 500 trees.”

Value Proposition

The unique value proposition is based on trust, with every dollar tracked on blockchain so there are no blind donations; on cost efficiency, with 2–5% fees versus an industry standard of 10–15%; and on global reach, via support for 50+ currencies, including crypto and NFTs

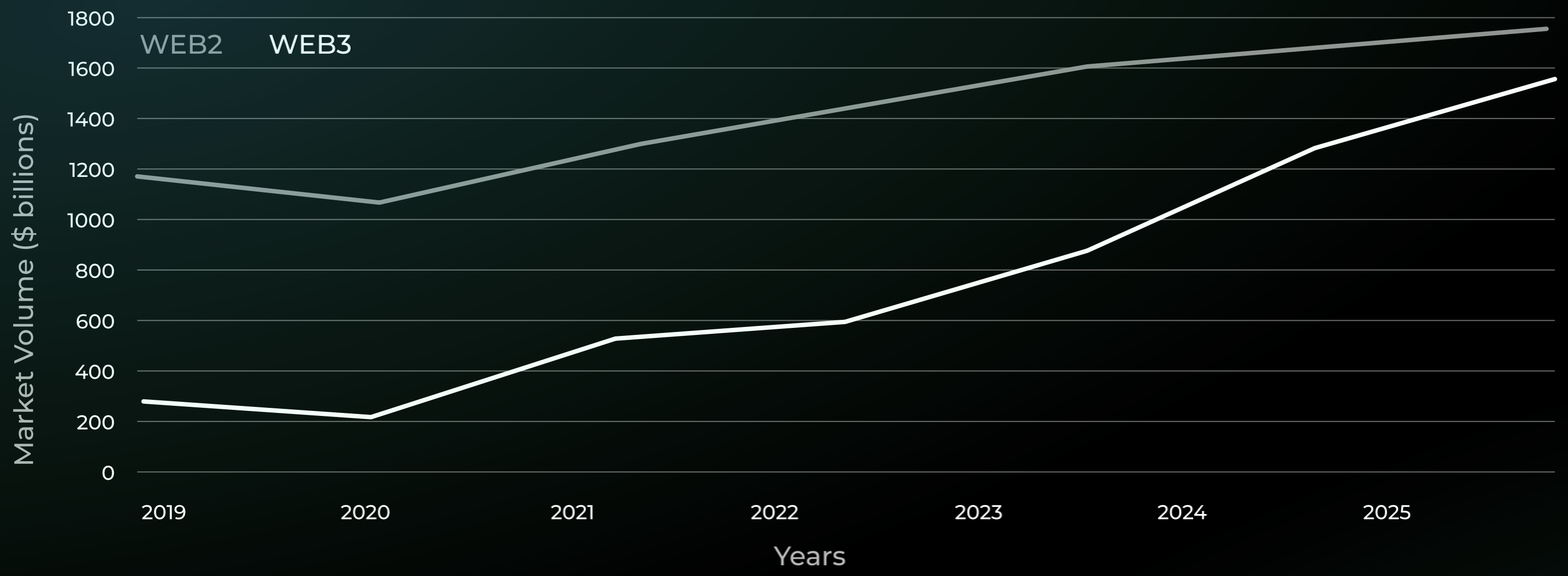
Branding & Messaging

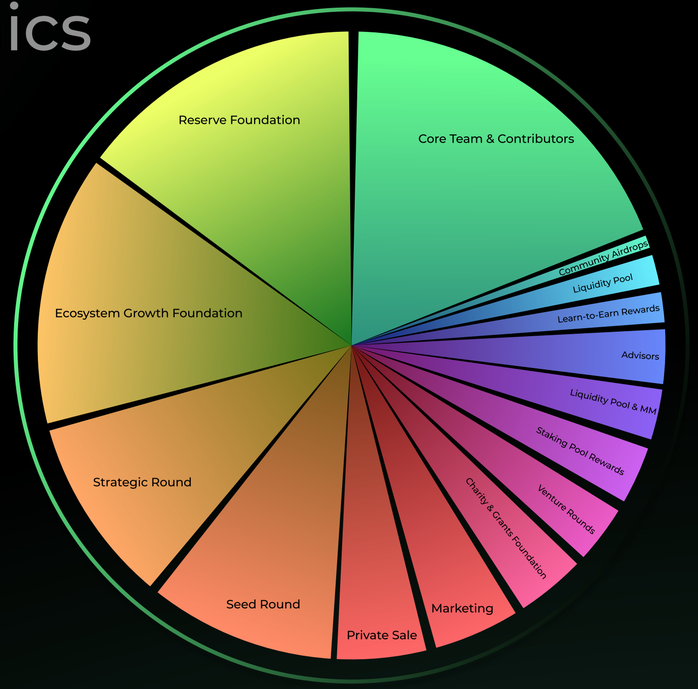
Branding and messaging are centered on the tagline “Where Blockchain Meets Humanity,” supported by proof points such as case studies with 10+ pilot NGOs showing a 300% donor retention increase

Key Metrics & Milestones

Key metrics and milestones include growth to 50,000+ registered NGOs and donors, $10M+ in processed transaction volume, and partnerships with 25+ NGOs and 3 government pilots

Financial Projections & Tokenomics





Financial Forecast (by 2030):

Global Web2 Donations: $1.5T (Giving USA)
Web3 Market: $69.4B (1% shift from Web2 + Web3 organic growth)
GrantiX Market Share Target: 10% ($6.94B) annually

GRANT Token Valuation:

Total supply: 1B tokens (fixed, no inflation)
Projected Token Price (2030):
Conservative: $1.38/token
Upside (P/S=15x): $2.08/token

Revenue (Platform Fees ~2%):

Annual revenue: $138.8M
Conservative Valuation (P/S 10x): Market Cap $1.388B

Investor ROI:

Listing price: $0.10
Conservative: $0.50 (5x ROI)
Target upside: $2+ (20x ROI)
Financially stable for first 3 years, costs covered by initial allocations

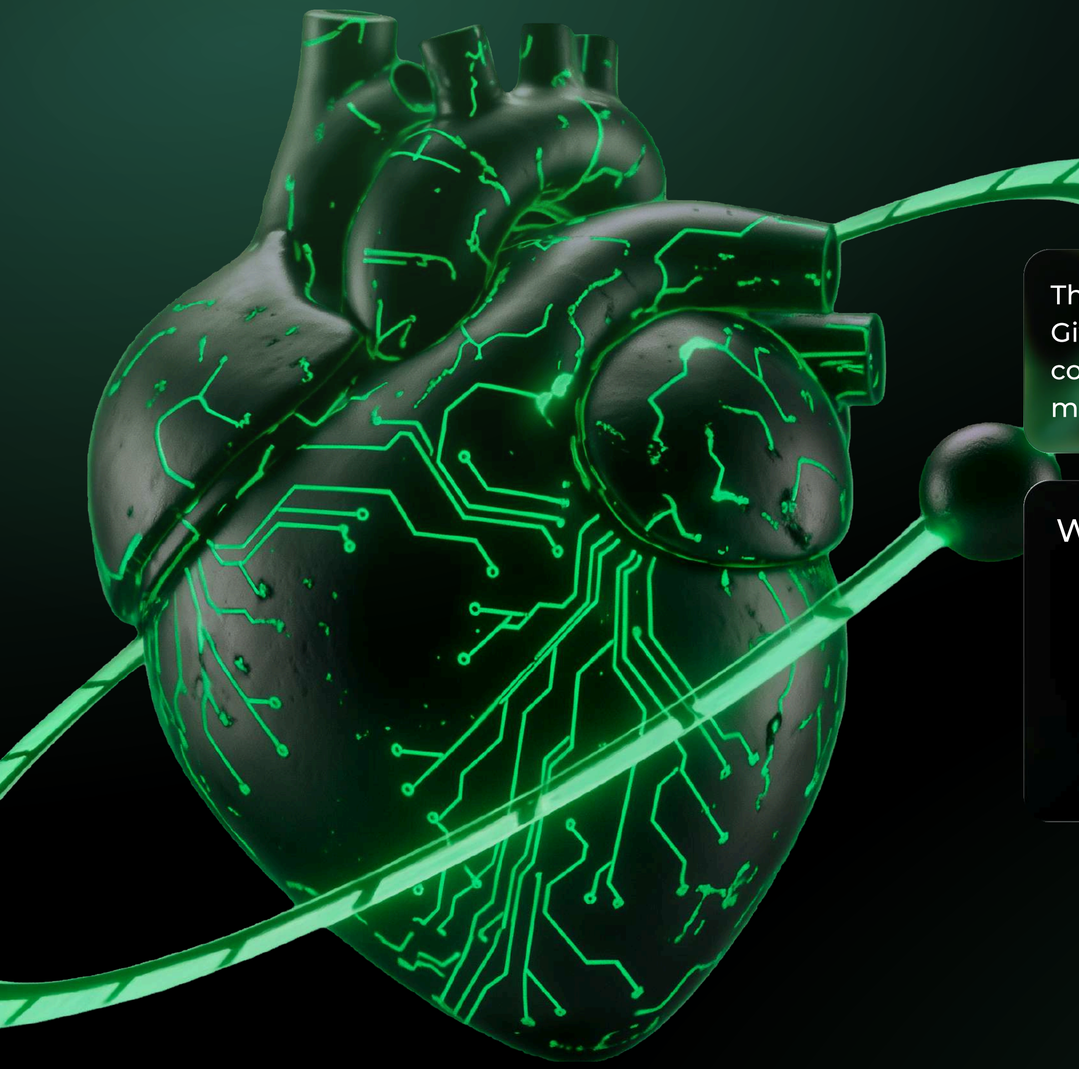
Stability & Growth Factors:

Deflationary Mechanics: 30% of platform fees quarterly token burn

Long-term Vesting: 85% tokens vested linearly (12-36 months), no sudden dumps

Real-world Utility: Staking (8-15% APY), driving consistent demand

Core Market Assumptions



The global Web2 donation market currently reaches approximately $1.5 trillion annually, according to Giving USA. Even under a conservative scenario in which just 1% of Web2 donations shift into Web3—combined with the natural growth of the Web3 sector—the potential size of the Web3 philanthropy market by 2030 is projected to reach $69.4 billion.

Within this growing landscape, GrantiX can realistically capture around

10%

of the Web3 donation flow

Which would correspond to approximately

$6.94 billion

in processed transactions per year by 2030

Revenue Model

With an average platform fee of ~2%

processing

$6.94B

annually translates into roughly

=

$138.8 million

in yearly revenue

Using conservative valuation benchmarks, a P/S ratio of 10x is applied (for comparison: Coinbase trades near 15x, Gitcoin around 5x). Under this model, the projected market capitalization for GrantiX in 2030 reaches $1.388 billion

Under this model

$1.388 billion

the projected market capitalization for GrantiX in 2030 reaches



$GRANT Token Valuation (2030)

With an average platform fee of ~2%

The total supply of the $GRANT token is fixed at 1,000,000,000, with a fully vested circulating supply of 1 billion tokens by 2030. Using the forecasted market cap:

Token price = Market Cap / Circulating Supply

$1.388B / 1B = $1.38 per token

In an upside scenario with a P/S ratio of 15x, the token price could move toward $2.08

Financial Forecast (2024–2030)

The long-term model assumes a gradual 1% migration from Web2 to Web3, combined with increasing demand for the $GRANT token

Web3 Adoption Acceleration

Web3 adoption acceleration with potential valuations reaching $16.17 under expanded P/S multiples

Token Burns

Token burns of up to 30% per quarter, leading to significant annual supply reduction and approximately 15% annual appreciation due to scarcity pressure

Staking Utility

Staking utility, where average yields of 10–15% reduce circulating supply and token velocity, naturally supporting higher valuations

Financial Stability

Financial stability, as the first three years of operations are fully funded by allocations, enabling sustainable growth

Beginning in 2028, platform fees and revenue channels ensure long-term self-sufficiency

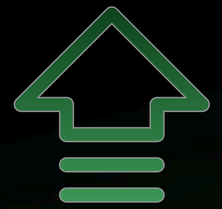
Investor ROI Forecast

The estimated listing price for $GRANT is $0.10



Conservative Scenario

In a conservative scenario, the price could rise to $0.50, delivering a 5× ROI even under slow mass adoption



Upside Scenario

In an upside scenario, with GrantiX capturing 10% of the Web3 philanthropy market, the token price may exceed $2, offering an approximate 20× ROI

Why Invest in GrantiX?

GrantiX is building a new paradigm for Web3 philanthropy—one where investment capital drives both meaningful social impact and sustainable financial returns.

High Liquidity & Risk Reduction

High liquidity enables effortless entry and exit with minimal slippage and significantly reduces traditional Web3 risks, as liquidity is locked in pools rather than team wallets

Market Attraction & Price Stability

Strong liquidity becomes a magnet for market participants, enhances price stability, and attracts long-term holders

Listings & Adoption Acceleration

Listings across CEXs and DEXs amplify market confidence and accelerate adoption among institutions and retail users

Ecosystem Growth

As liquidity deepens, trading becomes more stable, user engagement rises, and the ecosystem experiences compounding growth

Liquidity Pools & Market-Making

Liquidity is the core mechanism that establishes trust and price stability inside the ecosystem

liquidity → trust → trading volume → user growth → token appreciation

Vision & Narrative

GrantiX is rewriting the rules of philanthropy on blockchain.

In a sector where 87% of Web3 projects lack real-world utility (CoinMarketCap, 2024), $GRANT stands not as another hype-driven token but as the antidote to speculation.

The best time to initiate this transformation was twenty years ago; the second-best time is today

GrantiX empowers investors not merely to participate in the market but to lead a shift toward meaningful digital infrastructure

This is the opportunity to transform blockchain from a speculative playground into a foundation for global social good

Tokenomics & vesting schedule



5%
Marketing
$GRANT 50,000,000.00

5%
Angel Round
$GRANT 50,000,000.00

4%
Charity & Grants Foundation
$GRANT 40,000,000.00

3.5
Staking Pool Rewards
$GRANT 35,000,000.00

3.5%
Public Pre-Sale Rounds
$GRANT 35,000,000.00

3%
Liquidity Pool 1
$GRANT 30,000,000.00

3%
Advisors
$GRANT
30,000,000.00

2%
Liquidity Pool 2
$GRANT 20,000,000.00

2%
Learn-to-Earn Rewards
$GRANT 20,000,000.00

1%
Community Airdrops
$GRANT 10,000,000.00

14%
Ecosystem Growth Foundation
$GRANT 140,000,000.00

15%
Reserve Foundation
$GRANT 150,000,000.00

19%
Core Team & Contributors
$GRANT 190,000,000.00

20%
Strategic Reserve
$GRANT 200,000,000.00

Tokenomics & vesting schedule

Liquidity Pool 1
TGE unlock

Liquidity Pool 2
TGE unlock

Public Pre-Sale Rounds
Cliff 1 month Vesting period 6 month % TGE unlock 15%

Community Airdrops
Cliff 1 month Vesting period 9 month % TGE unlock 0%

Learn-to-Earn Rewards
Cliff 0 month Vesting period 12 month % TGE unlock 0%

Advisors
Cliff 0 month Vesting period 12 month % TGE unlock 50%

Marketing
Cliff 0 month Vesting period 24 month % TGE unlock 10%

Charity & Grants Foundation
Cliff 1 month Vesting period 24 month % TGE unlock 0%

Staking Pool Rewards
Cliff 0 month Vesting period 36 month % TGE unlock 0%

Reserve Foundation
Cliff 6 month Vesting period 36 month % TGE unlock 0%

Ecosystem Growth Foundation
Cliff 6 month Vesting period 36 month % TGE unlock 5%

Strategic Reserve
Cliff 12 month Vesting period 36 month % TGE unlock 0%

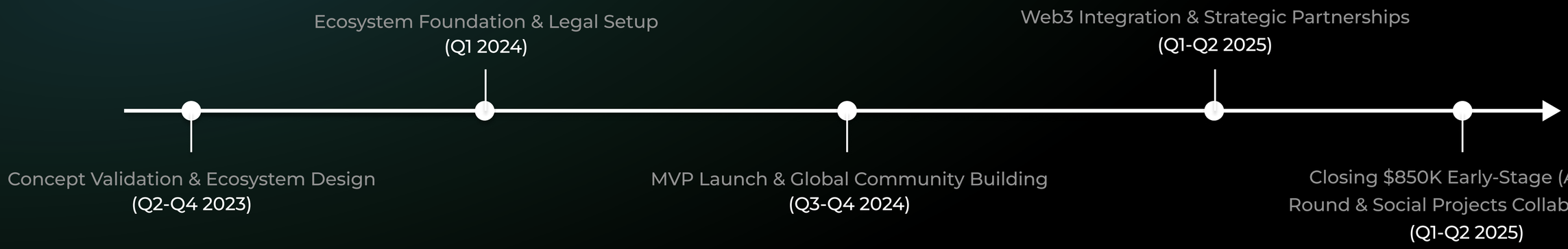
Angel Round
Cliff 12 month Vesting period 36 month % TGE unlock 0%

Core Team & Contributors
Cliff 12 month Vesting period 36 month % TGE unlock 0%

Tokenomics & vesting schedule

Allocation	Allocation Type	Allocation Details
Liquidity Pool 1	LP	MM CEX
Liquidity Pool 2	LP	AMM DEX
Strategic Reserve	Reserve	Post-TGE, OTC
Angel Round	Investors	$850K Raised, $0.017 per $GRANT, FDV = $17M
Public Pre-Sale Rounds	Investors	IDO partners
Community Airdrops	Airdrop	Community rewards program
Learn-to-Earn Rewards	Airdrop	Partner platform & Website
Marketing	Marketing	Listings & KOLs & Ambassadors & PR & Events
Staking Pool Rewards	Staking Rewards	SocialFi Staking Rewards
Advisors	Advisory	Advisory Allocation
Reserve Foundation	Reserve	Operational Contingency
Core Team & Contributors	Team Members	Payroll Fund
Charity & Grants Foundation	Charity	Grants for Social Entrepreneurs & Charity Initiatives
Ecosystem Growth Foundation	Partnerships	Ecosystem Scaling & Charity DeFi Integrations

Pre-TGE roadmap



May–June 2025
Launching the full platform
Uniting under one roof
- NGOs
- Donors
- Ambassadors

July-September 2025
Expanding our ecosystem with
- DeFi integrations
- Worldwide strategic and WEB3 charity partnerships.

October-November 2025
Launching IDOs backed by
- best practice marketing campaign
- with the support of leading media
- well-known KOLs
- ambassadors
- and community activation tools.

December 2025
$GRANT Token TGE listings on:
- Tier2 CEX
- DEX

IEO campaign

The Economy of Impact begins!



TECHNICAL INFORMATION

Empowering Social Change with Blockchain Technology.

1. Network & Deployment References

Main network

- GrantiX is deployed as a set of Solidity smart contracts on Ethereum L2 (Arbitrum rollup).
- The contracts run on Arbitrum One. In this whitepaper we treat this canonical deployment as “GrantiX mainnet”.

Core properties

- Solidity ≥ 0.8.x (built-in overflow checks, modern language features).
- Non-upgradeable, isolated contracts with explicit admin controls (no proxy maze).
- On-chain state is minimized; analytics and AI run off-chain over public data.

Following repository and contracts (the “in-scope source code”):

- Repository:

https://github.com/devmetis/grantix_contracts/tree/9833ff2007e6369ac052a535f22927ca4286454e

- In-scope contracts:
  - GrantiX.sol
  - GrantiXDao.sol
  - GrantiXDonations.sol
  - GrantiXDonationsVesting.sol
  - GrantiXStaking.sol
  - GrantixFarming.sol

These six contracts are the GrantiX on-chain architecture.

2. Contract Suite Overview

Contract	Type / Standard	Role in the ecosystem
GrantiX	ERC-20 + vesting engine	GRANT token; TGE, allocations, vesting, burns
GrantiXStaking	Staking pools	Fixed-term GRANT staking + Social Staking (auto-donation)
GrantixFarming	Liquidity mining	Farming rewards for LP providers, DeFi integrations
GrantiXDonations	Multi-asset donations	ETH / ERC-20 / NFT donation router + analytics base
GrantiXDonationsVesting	Donation vesting	Programmable vesting for social projects / endowments
GrantiXDao	Governance	Staked-token DAO for listings, parameters, grants

On top of this on-chain core, the Web2 platform (WordPress) integrates via RainbowKit + wagmi and Arbitrum RPC providers; it never holds private keys

3. GRANT Token Contract — GrantiX

3.1 What the contract represents

GrantiX is the canonical ERC 20 implementation of GRANT, with:

Fixed supply

1,000,000,000 GRANT (18 decimals), minted once and never increased

Tokenomics-driven allocations

(16 buckets) covering strategic/private rounds, public rounds (IDO/IEO), LP1/ LP2 , staking rewards, ecosystem growth, marketing, reserve/treasury, Learn- to -Earn, community airdrops, Charity & Grants Foundation, core team, advisors, etc

This contract is the single source of truth for:

- TGE and allocation setup
- Vesting schedules for all categories
- Emission of staking/farming/learn to earn/airdrop rewards
- Optional deflation through burns

3.2 Purpose in the ecosystem

Token utility

GRANT is the unit of account for donations, staking, farming, governance, Learn-to-Earn rewards and partner integrations

Distribution control

on-chain vesting makes all allocations transparent and predictable, de-risking SocialFi optics

Deflation / treasury management

Reserve Foundation tokens can be burned over time if unused

3. GRANT Token Contract — GrantiX

3.3 Core logic & data structures

Key state, conceptual

- Standard ERC 20 mappings: balances, allowances
- Struct VestingSchedule { address recipient; uint256 total; uint256 claimed; uint64 start; uint64 cliff; uint64 duration; uint64 slicePeriod; bool revocable; }
- Mapping(bytes32 allocationId => VestingSchedule[]) — multiple schedules per allocation
- Global parameters: TGE timestamp, total supply, owner, treasury addresses.

Vesting logic

- **Each allocation can define:**
- TGE unlock %, cliff, vesting duration, and payout frequency (daily / monthly / quarterly)
- ClaimVestedTokens(allocationId) calculates how much is releasable for the caller based on:
- Current time, start + cliff, linear progression over duration, minus already claimed
- Some allocations (e.g., LP1/LP2) may have zero vesting and are fully unlocked at TGE; others (Strategic, Team, Advisors, Learn to Earn, etc.) use linear or stepped schedules.

3.4 Key functions (public / external)

Standard ERC-20

TotalSupply, balanceOf, transfer, approve, transferFrom, allowance

TGE & vesting

- StartTGE() — one time call by owner to initialize allocations, TGE unlocks, and vesting schedules
- ClaimVestedTokens(allocationId) — lets a beneficiary pull vested tokens
- View helpers like releasableAmount(beneficiary, allocationId).

Admin utilities

- Burn(from, amount) — burn tokens from a treasury/owner controlled address (e.g., Reserve Foundation)
- TransferOwnership(newOwner) — move admin control to a multi sig / DAO.

3. GRANT Token Contract — GrantiX

3.5 Events

- TGEStarted(uint256 timestamp)
- TokensDistributed(address recipient, uint256 amount, bytes32 allocationId)
- VestingActivated(address recipient, uint256 totalAmount, uint64 cliff, uint64
- VestedTokensClaimed(address recipient, uint256 amount)
- TokensBurned(address burner, uint256 amount)
- OwnershipTransferred(address previousOwner, address newOwner)

3.6 Roles & permissions

Owner (multi-sig)

Configures TGE, vesting schedules, burns from Reserve; cannot arbitrarily seize user funds

Beneficiaries

Can claim only what their vesting allows; they never receive admin powers

DAO (future)

selected parameters (e.g., burn policy, re-routing of unused allocations) may be moved under DAO control

3.7 How it supports ecosystem mechanics

Staking

GrantiXStaking is funded from Staking Pool Rewards + Charity allocations; rewards are paid out in GRANT

SocialFi donations

donations & vesting contracts transfer / escrow GRANT via this token contract

Learn-to-Earn

Academy campaigns use Learn-to-Earn Rewards allocation; rewards can be immediate or via vesting schedules

Community airdrops

Community Airdrops allocation is distributed off-chain (snapshot scripts) using standard transfers

DAO voting

Total supply and balances underpin governance weighting via staking.

4. Staking & SocialFi Layer

4.1 GrantiXStaking — fixed term & Social Staking

What the contract represents

GrantiXStaking is a non custodial staking contract for GRANT that:
- Offers three fixed term staking pools:
  - 6 months — ~5% APY
  - 1 year — ~10% APY
  - 3 years — ~20% APY
- Implements Social Staking: a fixed portion of staking yield is automatically redirected to the GrantiX Charity & Grants Foundation.

Reward calculation

- Rewards accrue linearly over time based on:
  - deposit amount,
  - APY,
  - time since last update,
  - pool lock duration (no rewards after unstake).
- On each claim, gross reward is split into:
  - investorReward = gross * (10000 - socialFeeBps) / 10000
  - socialReward = gross - investorReward

Roles & permissions

- Owner can tweak APYs, lock durations, min stake, and socialFeeBps.
- Stakers have full control of their positions; no one else can unstake or claim on their behalf.

Core logic & data structures

Typical state:
- struct StakePosition { uint256 amount; uint64 start; uint64 lockUntil; uint8 poolId; uint256 rewardDebt; }
- mapping(address => mapping(uint8 => StakePosition)) stakes;
- struct PoolConfig { uint64 lockDuration; uint256 apy; uint256 minStake; }
- PoolConfig[3] pools;
- uint16 socialFeeBps — e.g. 400 = 4% of gross rewards to Charity & Grants.

Key functions

- stake(poolId, amount)
  - Transfers GRANT from user to GrantiXStaking (requires prior approve).
  - Checks amount >= minStake and sets lockUntil.
- claimRewards(poolId)
  - Computes pending rewards vs rewardDebt.
  - Sends investorReward to staker and socialReward to charityTreasury.
- unstake(poolId)
  - Only after lockUntil.
  - Returns principal and can auto-claim rewards.
- View helpers: pendingRewards, totalStaked, etc.

Support for mechanics

- SocialFi staking — part of yield goes to Charity & Grants.
- DAO — voting power = totalStaked(user).
- Learn to Earn tiers — advanced courses may require checking user's staked balance and lock duration.

Purpose in the ecosystem

- Incentivize long term holding and align investors with social impact.
- Provide TVL and stickiness for the GRANT token.
- Serve as governance collateral (only staked tokens are voting power in GrantiXDao).

Events

- Staked(user, poolId, amount)
- RewardsClaimed(user, poolId, investorReward, socialReward)
- Unstaked(user, poolId, amount)
- PoolAPYUpdated(poolId, newAPY)
- PoolMinStakeUpdated(poolId, newMinStake)
- PoolLockTimeUpdated(poolId, newLockTime)

4. Staking & SocialFi Layer

4.2 GrantixFarming — liquidity mining & DeFi integrations

What the contract represents

GrantixFarming incentivizes liquidity providers (LPs) who add GRANT liquidity on DEXes (e.g. Uniswap compatible pools), distributing GRANT rewards proportional to LP share

Purpose in the ecosystem

- Grow on chain liquidity for GRANT to support:
  - o DEX trading
  - o DeFi integrations (lending, yield aggregators, GameFi, bridges, etc.).
- Reward long term LPs from a dedicated GRANT allocation (Ecosystem Growth Foundation / Farming pool)

Rewards

- Rewards are streamed GRANT per second per pool.
- accRewardPerShare tracks cumulative rewards per staked LP unit (MasterChef pattern)

Core logic & data structures

Typical state:
- struct FarmingPool { lpToken; startTime; endTime; totalStaked; accRewardPerShare; }
- mapping(address => FarmingPool) pools;
- struct UserInfo { amount; rewardDebt; }
- mapping(lpToken → mapping(user → UserInfo)) userInfo;

Key functions

· addPool(address lpToken, uint256, uint64 startTime, uint64 endTime) — owner only.
· stake(address lpToken, uint256 amount) — user stakes LP tokens.
· withdraw(address lpToken, uint256 amount) — user withdraws LP tokens.
· claimRewards(address lpToken) — claim GRANT rewards.
· Combined helpers like withdrawAndClaim.

Administrators can adjust the APY for each liquidity pool to keep yields within the desired ranges. The APY setting controls the pool's yield, and the lp ratio parameter defines the conversion rate between the LP token and the GRANT token for reward calculations.

Roles & permissions

· Owner configures pools and funds them with GRANT transferred from protocol allocations.
· LPs retain full control of their staked LP and reward claims.

Events

- LPStaked(user, lpToken, amount)
- LPUnstaked(user, lpToken, amount)
- RewardsClaimed(user, lpToken, amount)
- FarmingAPYUpdated(lpToken)

GrantiX is the canonical ERC 20 implementation of GRANT, with:

Liquidity

Deeper liquidity for GRANT pairs (ETH/GRANT, USDC/GRANT, etc.) → better price discovery and lower slippage

DeFi integrations

DeFi partners integrating GRANT benefit from healthy on-chain liquidity; some may route a portion of protocol revenue to GrantiXDonations to enable SocialFi round-ups

5. Donations & Vesting Layer

5.1 GrantiXDonations — multi-asset donations

What the contract represents

GrantiXDonations is the on-chain router and ledger for all blockchain donations:

· Accepts ETH and arbitrary ERC-20 tokens, including GRANT.

· Accepts NFT donations (ERC-721 and ERC-1155).

· Emits events that power analytics, AI-based validation and transparency dashboards

Roles & permissions

· Owner can:

- enable/disable tokens or NFTs,
- configure routing (direct vs. vesting),
- The GrantiXDonations contract does not charge any platform fees or commissions on donations.

· Donors can only donate / view on-chain history; they never gain admin power

Purpose in the ecosystem

· Enable SocialFi donations in any supported asset (GRANT, stablecoins, partner tokens).

· Easily integrate GrantiX into external DeFi / Web3 / Web2 flows, e.g.:

- round-up DEX fees to donations,
- percentage of yield in lending/aggregator protocols,
- GameFi in-game purchases, wallets, RWA platforms.

Events

· DonationReceivedETH(address indexed donor, address indexed recipient, uint256 projectIndex, uint256 amount)

· DonationReceivedToken(address indexed donor, address indexed recipient, uint256 projectIndex, address indexed token, uint256 amount)

· DonationReceivedNFT(address indexed donor, address indexed recipient, uint256 projectIndex, address indexed nft, uint256 tokenId, uint256 amount, uint256 estimatedValue)

These events are consumed by:

· Web2 analytics to show “total raised / realized / donors” per project/category.

· AI services that score efficiency, flag anomalies and assist investors in choosing campaigns.

Key functions

· donateETH(uint256 projectIndex, address recipient) — payable.

· donateToken(uint256 projectIndex, address recipient, address token, uint256 amount) — needs approve beforehand.

· donate721(uint256 projectIndex, address recipient, address nft, uint256 tokenId)

· donate1155(uint256 projectIndex, address recipient, address nft, uint256 tokenId, uint256 amount)

Core logic & data structures

High-level state

· struct Donation { address donor; address recipient; address asset; uint256 amountOrTokenId; bool isNFT; uint256 projectIndex; uint256 estimatedValue; uint64 timestamp; }

· Donation[] public donations

Routing

· For standard donations (ETH / ERC-20): funds are forwarded immediately to recipient (project wallet or endowment address) and not custodially held.

· For exclusive GRANT mode (endowment / vesting campaigns): donations are first collected to a dedicated project address (not controlled by the team), and after fundraising the administrator forwards the aggregated GRANT with vesting settings and the project’s beneficiary to GrantiXDonationsVesting to avoid mixing funds from different projects on-chain.

Admin configuration

· Whitelists/blacklists of ERC-20s and NFTs accepted by default.

· Per-project or per-asset routing settings (e.g., direct payout vs. vesting).

5. Donations & Vesting Layer

5.2 GrantiXDonationsVesting — vesting for social projects & endowments

What the contract represents

GrantiXDonationsVesting manages vested release of GRANT towards social projects:

· per-project, per-campaign vesting plans,

· linear or multi-tranche schedules,

· optional automatic split of each vesting withdrawal to the Charity & Grants Foundation

Purpose in the ecosystem

· Align project cash-flow with real execution milestones and reporting, preventing one-shot misallocation.

· Implement endowment model: a project might stake or otherwise manage a portion of its raised funds, while unlocked GRANT is spent on operations.

Roles & permissions

· **Owner:** creates/adjusts/cancels vesting plans in line with verified fundraising results and reporting.

· **Recipient (project)**: can only claim vested amounts, never modify schedules

Events

· VestingPlanCreated(uint256 indexed planId, address indexed recipient, bool isLinear, uint256 totalAmount, uint16 socialFeeBps)

· VestedTokensClaimed(uint256 indexed planId, address indexed recipient, uint256 projectAmount, uint256 charityAmount)

Key functions

· createLinearPlan(address recipient, uint256 totalAmount, uint64 start, uint64 cliff, uint64 duration, uint16 socialFeeBps) — owner only.

· createTranchePlan(address recipient, Tranche[] memory tranches, uint16 socialFeeBps) — for stepped vesting.

· **claimVestedTokens(uint256 planId) — callable by recipient; calculates how much is unlocked:**

- sends projectShare to recipient,
- sends charityShare to Charity & Grants address.

In GrantiXDonationVesting, the administrator cannot pause, cancel, or revoke vesting plans and cannot reclaim tokens belonging to beneficiaries.
Such operations are intentionally not supported and are outside the current specification.

Core logic & data structures

State pattern

· struct VestingPlan { address recipient; uint256 totalAmount; uint256 claimedAmount; uint64 start; uint64 cliff; uint64 duration; bool isLinear; uint16 socialFeeBps; }

· Optional: mapping(uint256 => Tranche[]) for non-linear schedules.

Social fee (socialFeeBps):

· Allows the protocol to add a % of each vesting plan to GrantiX Charity & Grants (these tokens are not vested to the project; they go directly to the foundation).

6. Governance — GrantiXDao

6.1 What the contract represents

GrantiXDao is the governance contract that tracks proposals and votes by staked GRANT holders:

· Governance power = total staked GRANT across all pools in GrantiXStaking.

· Proposals are primarily about social & platform decisions (project listings, delistings, supported regions, grant distributions, parameter changes), with execution initially done by the core team but transparently recorded.

6.2 Purpose in the ecosystem

· Give long-term aligned stakeholders a say in:

o which social projects are listed/verified,

o which integration partners / categories are prioritized,

o allocation of discretionary grants from Charity & Grants Foundation and Ecosystem Growth.

6.4 Key functions

· **createProposal(string description, bytes calldata metadata)**

o Checks proposer's staked amount and lock period.

o Sets startTime/endTime.

· **vote(uint256 proposalId, uint8 option)**

o Checks proposal is active and user hasn't voted.

o Queries GrantiXStaking for staked weight and credits it to votes[option].

· **finishProposal(uint256 proposalId)**

o Marks as finished, calculates winning option.

o Emits final tally; actual off-chain execution is performed by GrantiX admins in this iteration.

6.5 Events

· ProposalCreated(uint256 indexed proposalId, address indexed proposer, uint64 startTime, uint64 endTime, string description)

· Voted(uint256 indexed proposalId, address indexed voter, uint8 option, uint256 weight)

· ProposalFinished(uint256 indexed proposalId, uint8 winningOption, uint256 totalVotes)

6.3 Core logic & data structures

Conceptual state

· struct Proposal { uint256 id; address proposer; string description; uint64 startTime; uint64 endTime; bool executed; mapping(uint8 => uint256) votes; }

· mapping(uint256 => Proposal) proposals;

· mapping(uint256 => mapping(address => bool)) hasVoted

Eligibility

· To create a proposal, an address must have at least 1% of total supply (10M GRANT) staked with a lock of ≥1 year in GrantiXStaking.

· Any staker can vote; vote weight = total staked GRANT (sum across pools) at time of voting.

7. Cross-cutting Concerns

7.1 Access control & safety

Across all contracts:

· Admin privilege is centralized in an owner (intended to be a multi-sig).

· No admin function can arbitrarily lower a user's balance, forcibly unstake them, or opportunistically reroute donations; all movements of user-owned funds require explicit user actions (stake, unstake, claim, donate) or pre-agreed vesting schedules.

· Administrative controls are limited to:

o parameter changes (APY, min stake, whitelists),

o creation of vesting plans,

o TGE and burning reserve tokens.

Web2/Web3 integration layer:

· Wallets connect via MetaMask / WalletConnect only on the client side.

· The WordPress backend stores public addresses (crypto_wallet_address, projectIndex etc.) and fetches transaction data via Infura/Alchemy and block explorers; it never sees private keys or seed phrases.

7.3 Security posture & monitoring

· Contracts are designed following standard patterns (Ownable, ReentrancyGuard, checks-effects-interactions).

· Web2 backend runs cron-based sync of on-chain donations and staking TVL via Alchemy/Infura; failures are logged and do not affect on-chain correctness.

User behavior, integration requests, and anomaly patterns are further analyzed by AI agents for early detection of fraud or non-efficient spending, but these agents never have direct write access to smart contracts

7.2 Interactions between contracts (high-level flows)

1. Social Staking → Charity & Grants

· User stakes GRANT via GrantiXStaking.

· Over time, they call claimRewards.

· GrantiXStaking transfers investorReward to the staker and socialReward to Charity & Grants Foundation, implementing automatic micro-donations.

2. Donations → Vesting → Projects

· Donor sends GRANT (or other tokens) through GrantiXDonations, referencing a specific projectIndex / campaign.

· For GRANT endowment campaigns, the protocol sets up a vesting plan in GrantiXDonationsVesting corresponding to net donated GRANT.

The project periodically calls claimVestedTokens, receiving unlocked GRANT; optional charity share is routed simultaneously to GrantiX Charity & Grants

3. Web2 flows ↔ Web3 contracts

· Social entrepreneur creates a project and fundraising campaign via the Web2 interface, goes through KYC and project verification.

· When they enable crypto donations, crypto_wallet_address and projectIndex are bound to their campaign; admins activate the campaign in the Web3 contract via owner calls (e.g. setProject).

Investors connect a wallet, pick a campaign and token, and call donate* methods via the front-end; the backend later reads donation events via cron sync with Alchemy/Infura to update progress bars, analytics, and efficiency dashboards

4. Learn-to-Earn

· Users complete courses in GrantiX Academy; completion is validated via quizzes and tasks; some courses are gated by staked GRANT tiers (checked against GrantiXStaking).

Rewards are distributed in GRANT using allocations managed by GrantiX (either unlocked or with vesting)

5. DeFi integrations

· Partner protocols (DEXs, wallets, yield aggregators, GameFi, bridges, RWA, etc.) integrate GrantiX by calling donateToken from their smart contracts — for example, rounding transaction fees to SocialFi donations or sharing a fraction of yield.

These donations show up in DonationReceived* events and are visible in analytics and AI-based reporting, improving reputation and adoption for both GrantiX and the partner

8. Summary

The GrantiX smart-contract architecture is intentionally modular:

· GrantiX defines the token, allocations, and vesting.

· GrantiXStaking + GrantixFarming manage yield and liquidity, embedding Social Staking as a first-class concept.

· GrantiXDonations + GrantiXDonationsVesting implement transparent, programmable donations and endowment-style funding.

· GrantiXDao turns staked GRANT into governance power over the social impact platform.

Together, these contracts provide the on-chain foundation for staking, SocialFi donations, Learn-to-Earn, DAO governance, airdrops, liquidity incentives, and broader token utility — all while remaining readable, auditable, and interoperable with the wider Web3 ecosystem.

Staking and Farming Mechanics in GrantiX

The economic design of GrantiX clearly separates long-term staking of the GRANT token from more flexible liquidity mining (farming), and defines transparent, on-chain sources of rewards for each mechanism. Staking is positioned as a long-term, locked, “social staking” instrument, while farming is a liquid, marketing-driven incentive layer for LP providers on decentralized exchanges. This separation is also how the system is described in the final CertiK audit and client clarifications.

Both mechanisms have been revised following the audit so that reward calculations are internally consistent, use clear APY snapshots, enforce basic safety checks, and follow ERC-20 and Ownable best practices that were formally verified.

GrantiX Staking Smart Contract (GrantiXStaking.sol)

Description

The GrantiX Staking contract implements single-asset staking for the GRANT token with fixed-term lockups and a built-in “social staking” mechanism. Holders lock GRANT into one of several staking pools, earn rewards in GRANT, and automatically direct a small, predefined share of their yield to the GrantiX charity and grants allocation. This aligns long-term token holding with ongoing funding of social projects.

Staking rewards are funded exclusively from a dedicated “Staking Rewards” allocation defined in the tokenomics. This pool is fixed in advance and is the only on-chain source of GRANT used to pay staking yields, which makes the reward budget finite, auditable and independent from external business ventures.

Following CertiK’s review, the staking logic computes rewards based on an APY snapshot taken at the time of each deposit. APY or lock-time changes at the pool level affect only new deposits (or explicit reinvest actions), not past ones. This eliminates inconsistencies caused by retroactive parameter changes and was confirmed in the final audit after the new staking and reinvesting mechanism was introduced and verified.

The contract adds basic safety guards, including zero-address checks for the GRANT token and the charity address, and consistent checks around time calculations to avoid underflows or unexpected behavior.

GrantiX Staking Smart Contract (GrantiXStaking.sol)

Smart-contract specification

1. Staking pools

· The contract exposes three fixed-term staking pools, each with its own lock period and APY, for example:

o Pool 1: 6-month lock, base APY (short-term pool).

o Pool 2: 12-month lock, medium APY.

o Pool 3: 36-month lock, maximum APY for the longest commitment.

· For every deposit, the contract snapshots the pool APY and lock time into the user's stake struct; later administrative updates do not change these values for existing deposits.

2. Minimum stake

· Each pool enforces a minimum stake amount of 100 GRANT. Deposits below this threshold are rejected.

3. Reward currency and source

· All staking rewards are paid in GRANT.

· The only on-chain source for staking rewards is the pre-allocated Staking Rewards pool defined in tokenomics; the contract does not assume any external yield from Uniswap LP positions or other protocols

4. Lockup and principal withdrawal

· When a user stakes into a pool, the principal is locked until the stake's unlockTime, computed as startTime + pool.lockTime.

· The contract rejects attempts to withdraw principal before unlock. Time arithmetic is protected to ensure that reward calculations cannot underflow if called before the lock period has fully elapsed.

5. Reward accrual

· Rewards accrue linearly over time based on:

o the staked amount,

o the deposit-specific APY snapshot, and

o the effective staking duration (bounded by the configured lock period and the current block timestamp).

· The contract uses 18-decimal arithmetic consistent with the GRANT token's fixed decimals, with constants and comments added so that future code modifications cannot silently change units.

6. Claiming rewards (claimRewards)

· A user can call claimRewards(poolId, depositId) at any time:

o The function calculates the pending reward for that specific deposit based on the APY snapshot and elapsed time.

o The contract automatically splits the accrued amount into:

§ Net staking yield for the user, transferred to the user's address.

§ Social staking contribution, a fixed fraction of the gross rewards that is immediately routed to the GrantiX charity and grants address.

· The charity and token addresses are validated against the zero address to prevent misconfiguration.

7. Reinvesting rewards

· Matured rewards can be reinvested into a new or existing pool through a reinvest function, allowing compounding without withdrawing to the wallet.

· The reinvest operation:

o Treats the reinvested amount as a new stake with its own APY snapshot and lock period,

o Properly updates accounting variables such as the user's total staked amount, in line with CertiK's recommendations.

GrantiX Staking Smart Contract (GrantiXStaking.sol)

Smart-contract specification

8. Withdrawal of principal after unlock

· After the lock period ends, the user can withdraw:

o The entire principal for the selected deposit, and

o Any unclaimed rewards that have accrued up to the withdrawal time.

· Withdrawals follow a checks-effects-interactions pattern and use standard ERC-20 semantics, as formally verified in the audit.

9. Administrative controls

· Owner-only functions (typically behind a multisig and timelock as per audit guidance) include:

o Updating APY, minimum stake and lock time per pool for future deposits.

o Updating the social staking rate within a predefined range.

o Updating the charity address, with zero-address validation.

· These functions do not retroactively change the terms of existing stakes.

10. Events

The contract emits events for full transparency and indexing:

· Staked(address user, uint8 poolId, uint256 depositId, uint256 amount)

· RewardsClaimed(address user, uint8 poolId, uint256 depositId, uint256 amount)

· Unstaked(address user, uint8 poolId, uint256 depositId, uint256 amount)

· PoolAPYUpdated(uint8 poolId, uint256 newAPY)

· PoolMinStakeUpdated(uint8 poolId, uint256 newMinStake)

· PoolLockTimeUpdated(uint8 poolId, uint256 newLockTime)

A previously redundant reinvest event was removed after the audit to keep the event stream minimal and non-confusing.

11. Security and audit notes

· Zero-address checks are enforced for critical configuration parameters.

· Reward calculations have been redesigned to be consistent, preventing underflows and mis-accounting when APY changes over time or stakes are extended.

· Staking logic and ERC-20 interactions were part of CertiK's formal verification, including properties like "transfer never returns false" and correct allowance updates.

GrantiX Farming Smart Contract (GrantiXFarming.sol)

Description

The GrantiX Farming contract is a separate, LP-based liquidity mining module. It is designed as a flexible marketing and growth instrument rather than a long-term locked yield product. Users who provide liquidity to GRANT trading pairs on a DEX receive LP tokens and can stake those LP tokens in the Farming contract to earn additional GRANT rewards on top of DEX trading fees.

The primary on-chain funding source for farming rewards is the Marketing / Ecosystem growth allocation of the GRANT token, explicitly reserved for liquidity mining, user acquisition and similar incentive programs. When needed, the farming reward pool may be topped up from GrantiX revenue (for example, a share of donations or platform fees) or, optionally, by founder contributions external to the protocol. These supplemental sources change only the size of the reward pool, not the way rewards are computed on-chain.

From the user’s perspective, farming is completely non-locking: LP tokens can be deposited or withdrawn at any time, and rewards accrue linearly while the stake is active. This design choice, confirmed in the audit, treats farming as a short-term, opt-in incentive layer on top of regular LP fees, rather than as a rigid lockup product.

After CertiK identified issues in the initial reward calculation logic, the pending reward and claim flows were rewritten so that they use a single, consistent formula and cap logic, avoiding underpayment or underflow when users restake and claim repeatedly. Safety checks were also added around LP registration, time windows and ERC-20 transfers.

GrantiX Staking Smart Contract (GrantiXStaking.sol)

Smart-contract specification

1. Supported LP tokens and pairs

· The contract manages one farming program that can reward multiple LP tokens.

· Supported LP tokens are not hard-coded and are explicitly added by the administrator; initially planned examples include liquidity in:

o GRANT / ETH

o GRANT / stablecoin (USDC or USDT)

· LP tokens are explicitly whitelisted by the owner through setLPToken, and additional checks ensure that:

o Only non-zero LP token addresses can be registered.

o A given LP token cannot be arbitrarily overwritten without proper checks, avoiding silent changes in APY or reward ratios for existing stakers.

2. Reward allocation and caps

· Total rewards for the farming program are capped by a constant TOTAL_REWARD_ALLOCATION (on the order of 3,000,000 GRANT in the current design).

· Each user is subject to a per-address cap on total farming rewards (for example, around 10,000 GRANT) to prevent a single LP from draining the entire allocation.

· Constants are defined using the GRANT token's 18-decimal configuration, with explicit comments to prevent misinterpretation of units.

3. APY and reward ratio

· Every whitelisted LP token is assigned:

o an APY parameter, and

o a reward ratio (lp.ratio), which represents the conversion rate between the LP token and GRANT for reward calculations.

· When a user stakes LP tokens:

o The user's APY is snapshotted at that moment (similar to staking) and remains constant for that stake until it is modified via explicit reinvestment or a new deposit.

o The contract retains the ability to adjust lp.ratio over time, which scales rewards for all active LP positions in that pool according to the updated conversion rate.

· The audit acknowledges this design while recommending that changes in lp.ratio be communicated clearly to users, since it directly impacts future rewards.

4. Farming duration and availability

· The owner configures:

o startTime – when farming rewards begin, and

o endTime – when new accrual stops.

· A dedicated modifier enforces farming availability. After the audit, the end-time check was corrected to use a strict comparison (block.timestamp < endTime) so that farming closes exactly at the intended cutoff, without an extra "bonus block".

The owner can also pause or disable individual LP tokens via status flags, which halts new accrual for those LPs while preserving already accrued rewards

5. Staking and unstaking LP tokens

Staking (stake(lpToken, amount))

o Verifies that the LP token is active and the farming period has started.

o Calculates and updates the user's pending rewards before changing stake size.

o Transfers LP tokens into the contract using SafeERC20 and follows a checks-effects-interactions pattern to reduce reentrancy risk.

o Updates amountStaked, APY snapshot and accounting variables.

Unstaking (unstake(lpToken, amount))

o Updates pending rewards up to the current block.

o Decreases amountStaked and returns LP tokens to the user using SafeERC20, again respecting CEI and optional non-reentrancy modifiers.

o Users can fully exit at any time; there is no protocol-level lockup on LP tokens.

GrantiX Staking Smart Contract (GrantiXStaking.sol)

Smart-contract specification

6. Reward calculation and claiming

For each user and LP token, the contract tracks

- amountStaked
- lastCalculationTime
- APY snapshot and other per-stake parameters
- cumulative reward accounting (for example, reward debt and claimed amounts)

Pending rewards are computed with a single, consistent formula that multiplies

- the user's staked amount,
- the elapsed farming duration since the last checkpoint (bounded by startTime and endTime),
- the user's APY snapshot, and
- the current lp.ratio,

divided by appropriate scaling factors (token decimals, basis points and annualization)

claimRewards(lpToken):

- Updates pending rewards using the same core formula used for internal accrual,
- Applies the per-user and global caps, and
- Transfers GRANT rewards to the user

CertiK's finding about underpayment after restaking and claiming has been resolved by aligning the pending and claiming logic and by correcting the way cumulative values are subtracted, as confirmed in the final report.

7. Token standards and compatibility

· External ERC-20 interactions in both farming and donations contracts use SafeERC20, and the project explicitly does not plan to support non-standard or deflationary tokens in these flows.

· In farming, LP tokens are added explicitly by the administrator, and in the donations contract a whitelist mechanism enforces which tokens can be used, thereby avoiding the edge cases around fee-on-transfer or rebasing tokens described in the audit.

8. Administrative controls

· Owner-only actions (expected to be controlled via multisig and timelock in production) include:

- Registering or disabling LP tokens.
- Setting APY and reward ratios per LP.
- Setting or updating farming startTime and endTime, subject to validation checks to avoid retroactive or nonsensical schedules.

· These controls are part of the protocol's explicit centralization trade-off: farming is treated as a tunable marketing tool, not as a permissionless monetary policy mechanism

9. Events

To support analytics and off-chain tracking, the contract emits:

· LPStaked(address user, address lpToken, uint256 amount)

· RewardsClaimed(address user, address lpToken, uint256 amount)

· LPUnstaked(address user, address lpToken, uint256 amount)

· FarmingAPYUpdated(address lpToken, uint256 newAPY)

· FarmingDurationUpdated(uint256 startTime, uint256 endTime)

Key Stability Factors of GrantiX's Economic ModelDeflationary Mechanics

Deflationary Mechanics

Deflationary mechanics include up to 30% of platform fees burned quarterly, leading to supply reduction and scarcity, with 1B tokens and no inflation providing protection against dilution



Long-Term Vesting & Supply Stability

Long-term vesting means 85% (investors, team, reserves) of tokens are locked for up to 3 years, resulting in no sudden supply dumps, with all major allocations unlocking linearly over 12–36 months to support token price stability

Utility-Driven Value

Real-world utility is driven by 100% of revenue reinvested into the ecosystem, creating utility-driven token demand, while staking at 8–15% APY attracts long-term holders and stimulates SocialFi donations and real world impact

Diversified Revenue Streams & Resilience

Diversified revenue streams, including transaction fees (1–3%), success fees (up to 20%) and DeFi yields (15–20% APY), provide resilience to volatility, with $10M+ annual revenue achievable by 2030 (assuming capturing at least 1% of SAM)

Buyback Capacity & Market Stability

In the case of GrantiX, we have arranged sufficient market making liquidity to be able, if necessary, to buy back all tokens unlocked at TGE in a single operation, without any material impact on the token price. Overall, the expected selling pressure at listing is significantly lower than the amount of liquidity we can comfortably allocate to buybacks.

As for future buybacks, we plan to finance them either from our Web2 revenue streams and, at a later stage, also from Web3 revenue, or alternatively from our stablecoin reserves – depending on which option is more operationally convenient and efficient at that moment.

Token Burn Mechanism Policy

No automatic or scheduled burns.

The GRANT token does not have any pre-programmed, periodic or algorithmic burn mechanisms. The circulating supply will not be reduced on a regular schedule

Transparency

Every burn proposal and its execution (amount, source wallet, transaction hash) will be published on-chain and accompanied by a public report explaining the rationale and its expected impact on the ecosystem

Burns only by DAO decision

We reserve the right to conduct ad-hoc burn events only if they are approved through the GrantiX DAO. A burn proposal is considered valid when:

- it is submitted and voted on via the DAO governance process;

it receives a majority of votes from token holders each holding more than 1% of the total GRANT supply at the time of voting

Source of tokens for burn

Any burn may only affect tokens held in designated treasury / reserve allocations (Reserve Foundation or other ecosystem-controlled wallets), and will never burn user balances. The burn is executed by sending tokens from these addresses to a non-recoverable (“dead”) address, permanently reducing total supply in line with the GRANT token smart-contract specification.

Key advantages of GrantiX vs competitors

Token Burn Mechanism Policy

1. Hybrid Web2 + Web3 funding in one platform

o Supports classic fiat donations (cards, bank payments) and crypto donations in the same UX, for both one-off and recurring support

2. Full transparency and programmable use of funds

o Crypto donations are recorded on-chain and can be checked in a block explorer at any time.

o For GRANT-based campaigns, funds are released step-by-step via vesting only after the project submits reports — money is tied to real results, not promises

3. SocialFi staking and long-term endowment model

o Retailer and enterprise GRANT holders can stake tokens and earn yield; a fixed part of the APY is automatically redirected to the GrantiX Charity Foundation & grants pool (“social staking”), creating a permanent endowment rather than just one-time donations

4. Deep DeFi integrations instead of an isolated platform

o Planned integrations with prediction markets, lending, liquid staking, wallets, bridges, payment services, privacy tools, RWA, NFT marketplaces and more.

o Examples: rounding of DeFi fees into donations, social LP pools, NFT drops where part of sales and/or paid fees goes to GrantiX Charity foundation

6. GrantiX Academy & Learn-to-Earn onboarding

o GrantiX Academy includes at least five structured courses (GrantiX, crypto & Web3 basics, DeFi, social entrepreneurship, and tech in the social sector) with video, text, podcasts, tests, gamification and leaderboards.

o Learn-to-Earn programs reward users in GRANT for completing educational tasks, building an educated and engaged community

7. Advanced analytics for donors and projects

o Investor dashboard shows: funds raised, number of sponsors, realised vs unrealised donations, number of beneficiaries who received support by a specific investor, geography of impact and more.

o Category pages show aggregate KPIs for each domain: total raised, realised, beneficiaries and projects.

8. Multi-level verification of people and projects

o Social entrepreneurs pass KYC via an external provider; GrantiX itself does not store and cannot access personal data.

o Projects and fundraising campaigns are verified by documents: founding papers, activity reports, financial statements, achievements, etc., with an internal “probability of successful verification” indicator.

9. Full Web3 infrastructure around the GRANT token

o Detailed smart-contract suite for GRANT: ERC-20 token with vesting, staking, farming, donation & vesting contracts, liquidity management and DAO governance, deployed on an L2 (Arbitrum mainnet), to expand to other EVM networks in the future.

10. Global, bi-lingual UX ready for scale

o The site is designed for global use; it supports EN /RU (more languages are coming soon) with auto language detection and full localisation of all UI, including dashboards and forms.

Positioning table (high-level, by type of competitor)

Note: cells reflect what is typical for each category, not every single platform.

Capability / Feature	Traditional Web2 charity & crowdfunding platforms	Typical Web3 donation platforms	DeFi / SocialFi protocols pretending to be socially focused	GrantiX
Fiat + crypto donations in one UX	Fiat only; crypto rarely supported	Undisclosed stack; no smart-contracts; centralized	Focused on returns – not social impact	Yes — unified Web2 + Web3 flows, tailored for traceable impact and freedom
On-chain transparency of donations	Reporting is off-chain, often manual	Yes for crypto transfers, but without vesting	Yes for protocol actions, not for social impact	Yes + donation vesting tied to project reports, visible both on chain and UI (user-interface)
Programmable vesting of funds for social projects	Never	Rare	Not charity-oriented if any	Core mechanism for GRANT fundraising campaigns
Social staking / endowment model	No staking, bureaucratized endowment	Sometimes governance staking, no social/ endowment	Staking/farming for profit only	Yes — SocialFi staking with automatic share to GrantiX fund, both for yield and traceable impact
Deep DeFi integrations (yield, LP, games, RWA, etc.)	No	No deep integrations	Native DeFi, but not linked to traceable impact	Upcoming multi-sector DeFi integrations with automatic micro-donations & roundups
AI-driven validation, analytics & support	Manual checks, rarely basic integration	Rare; mostly manual	Used for trading/quant, not for real world impact	Yes — AI agents for social projects validation, fundraising analytics, support, L2E and more
Education & Learn-to-Earn	Some blogs/webinars about charity, no rewards	Rare, focused on difficult Web3 topics	Educating only investment/trading topics – directly affiliated with publisher	GrantiX Academy (5 + courses), tokenized Learn-to-Earn with community rewards, suitable both for social entrepreneurs and web3 investors
Impact dashboards for individual donors	Basic history of donations with no on chain proofs	Sometimes basic stats per campaign with explorer links	Not applicable: no traceable result = no impact	Rich analytics & impact dashboard: impact per project, beneficiaries, geography, realised vs unrealised funds, impact allocations and more
Strict KYC + project due-diligence workflow	Varies by country; often only for NGOs	Often not present or community-driven only	Not relevant	Formal KYC for social entrepreneurs + multi-step document verification for social projects and their business models and financial projections & expenses
DAO governance & native token utility	No	Rarely; DAO inactive with no reasons to participate	Sometimes present with no real-world impact utility	DAO tailored for real-world impact; staked GRANT gives voting power and fuels socially responsible decisions
Smart-contracts & API integrations	Undisclosed stack; no smart-contracts; centralized	Smart-contracts traceable on-chain, but not the actual impact	Yes, but not impact-oriented	Designed as an open stack on L2 (Arbitrum One), which allows to track both funds and impact 24/7

Milestones achieved (update October 2025)

- $850k In angel funding
- MVP of the GrantiX platform fully developed
- More than 10,000 users attracted organically
- 36 social and charity projects onboarded and expected to list hundreds of their projects on GrantiX soon.
- Comprehensive marketing plan completed and ready for deployment
- SocialFi & CharityFi tools are completed and ready for launch
- Presales scheduled incl. top-tier launchpad.
- CEX partnerships secured for listing to expand base of users.
- More than 50 real-world & Web3 partners joined
- 8 Ambassadors who support our goal genuinely on non-commercial basis.
- Main revenue streams ready to flow upon token launch
- Over $120,000 in direct donations to the GrantiX Foundation received additionally to support our values (upd. September 2025)
- $50,000 in grants already distributed

Team



Dr. Konstantin Livshits

— Founder, GrantiX A serial entrepreneur, investor, and creator of multiple charity and social-impact-focused projects, with over 30 years of experience



Anton Yanushkevich

— CEO, GrantiX Blockchain expert, fintech advisor, and investor with over a decade of experience in crypto. Founder of Cryptemic FZ-LLC, specializing in tokenization and Web3 services. Founder of Cryptemic Academy, the first learn-to-earn crypto education platform



Mikhail Eremuk

COO — Manages operations, finance, and partner relations



Pavel Isaykov

CMO — Leads Web3 marketing and KOL strategy

Team



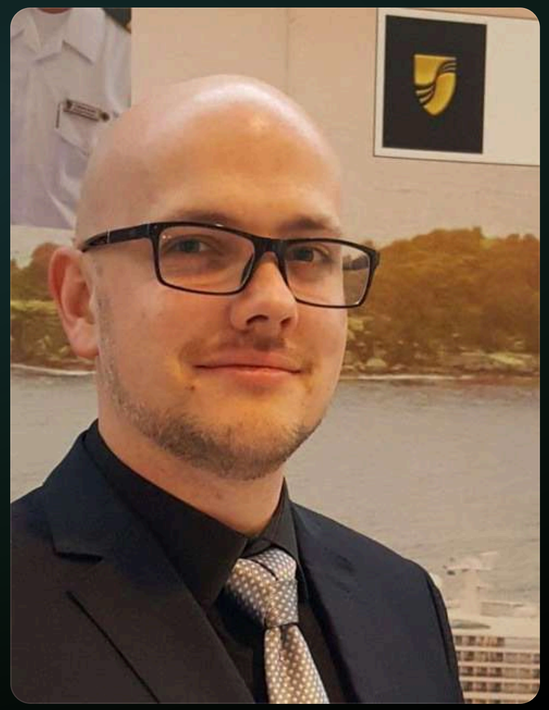
Maria Ushmakova

— PR Specialist — Media and communications



Mark Livshitc

On-chain Analyst — Blockchain data and integrations



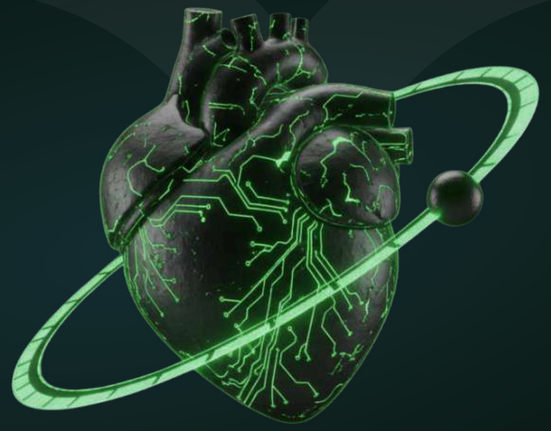
Lars Lundquist

Community Manager — Ambassador coordination and engagement. The team combines blockchain, AI, philanthropy, and product expertise to deliver an auditable, sustainable SocialFi ecosystem



Anna Papadina

SMM specialist — Community & Content Manager: Growing a community of social entrepreneurs and impact investors in the GrantiX blockchain ecosystem



Where your investment builds trust and impact — not just returns

The Future of Impact is On-chain!

GrantiX