

report to earn

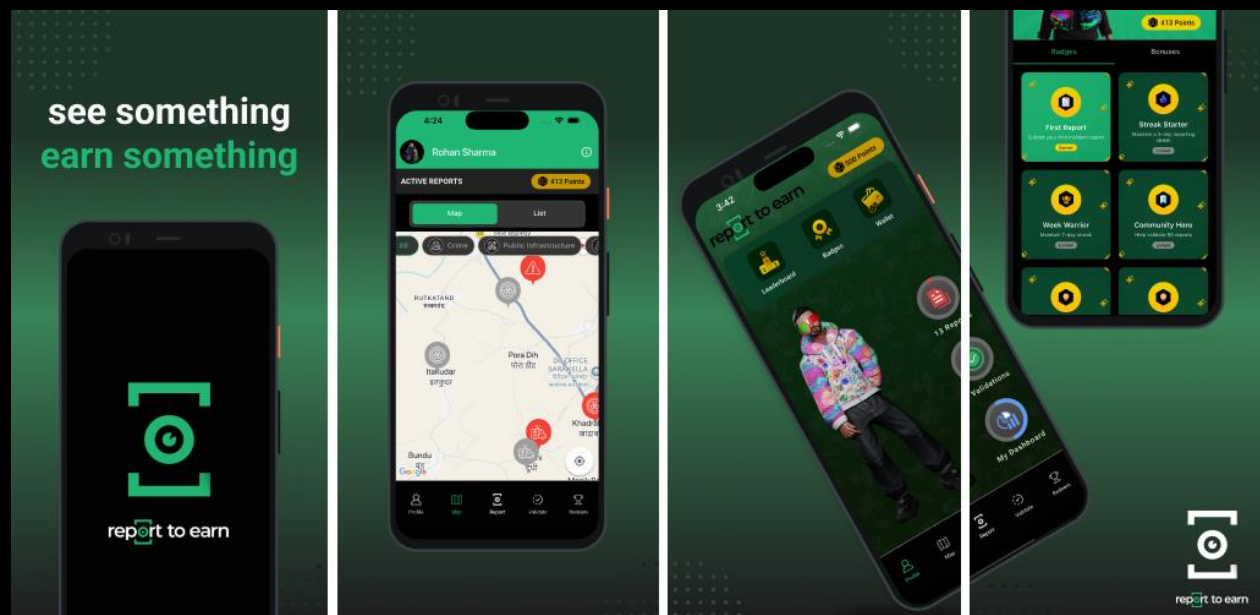
REPORT TO EARN (\$RTE): WHITEPAPER

Empowering blockchain powered, real-time, verified, hyperlocal reporting through citizen-driven intelligence

Gamified • Anonymized • Customizable • High Engagement

About RTE

Report To Earn (RTE) is a gamified decentralized mobile platform where citizens submit verified photo/video/audio reports across 140+ incident categories - including civic issues, traffic, hazards, environment, public safety, weather alerts, and local disruptions. Users earn points for reporting and verification, building a trusted network of ground-level contributors.



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For more information, please visit www.reporttoearn.com

Contents

Abstract: A Blockchain and AI Framework for Incentivized Civic Reporting	3
1. Introduction: The Problem of Underreported Community Hazards	3
2. A Tokenized Reporting Ecosystem	3
3. Validation and Early Traction	4
4. Societal and Economic Implications	6
5. A Paradigm Shift in Public Infrastructure Management	6
Introduction: Reinventing Civic Engagement Through Incentivized Reporting	7
1. Problem: Systemic Failures in Hazard Reporting	7
2. Agitating The Problem: A Missed Opportunity	8
3. The Solution: A Tokenized Civic Participation Engine	8
4. Conclusion: A New Standard for Civic-Tech	10
Product: Technical Architecture & Tokenomics	11
1. Technology: Blockchain Infrastructure	11
2. Technology: AI Validation System	12
3. Tokenomics: Token Mechanics	13
Roadmap: \$RTE Product Journey	16

Abstract: A Blockchain and AI Framework for Incentivized Civic Reporting

1. Introduction: The Problem of Underreported Community Hazards

Urban and rural communities worldwide face persistent challenges with unreported infrastructure degradation, environmental hazards, and public safety concerns. Despite the existence of municipal reporting systems, engagement remains low due to three systemic failures:

- 1.1. **Lack of Incentivization:** Traditional models rely on voluntary civic participation without tangible rewards, leading to underreporting.
- 1.2. **Bureaucratic Inefficiency:** Government workflows often delay resolutions, eroding public trust in reporting mechanisms.
- 1.3. **Data Verification Costs:** Manual validation of user-submitted reports is resource-intensive, limiting scalability.

These inefficiencies result in prolonged hazards, increased public risk, and wasted municipal budgets due to reactive (rather than proactive) maintenance.

2. A Tokenized Reporting Ecosystem

Report To Earn (RTE) introduces a decentralized, incentive-driven model that leverages blockchain and artificial intelligence (AI) to transform civic reporting into a self-sustaining economy. The framework operates on three foundational pillars:

2.1. Blockchain-Enabled Transparency and Automation

- Built on **Avalanche**, a high throughput Layer 1 blockchain, RTE ensures tamper-proof logging of all reports while minimizing transaction costs.
- Smart contracts autonomously distribute **\$RTE token** rewards upon successful validation, eliminating intermediaries.
- Immutable records provide auditable transparency for government, enterprise, media and non-profit stakeholders.

2.2. AI-Assisted Verification for Scalability

- **Computer Vision:** Analyzes uploaded media (e.g., images of potholes, damaged infrastructure) to detect fraudulent or low-quality submissions.
- **Natural Language Processing (NLP):** Cross-references textual descriptions with geospatial data to flag inconsistencies.
- **Authority Validation:** For an enhanced layer of security, designated members from authorized organizations can do manual 'Authority Validations'. (These are clearly flagged and tagged to differentiate them from crowdsourced validations, hence maintaining full transparency).

2.3. Sustainable Tokenomics for Long-Term Engagement

- **Controlled Inflation:** Controlled **Points to Token** conversion mechanism (backed by internal rate).
- **Deflationary Mechanisms:** A percentage of tokens converted in each **Point to Token** conversion, as well as those spent in the RTE marketplace are permanently removed from circulation in addition to periodic treasury buybacks.
- **Reward Stability:** Vault-funded rewards have a capped daily emission rate based on the vault balance.
- **Revenue Recycle:** Licensing fees and marketplace earnings flow into buy-&-burn events.

3. Validation and Early Traction

Using design thinking principles, the business and customer need for **Report To Earn (RTE)** has been validated and refined through extensive research and firsthand feedback through various channels involving different stakeholders over a period of 3 years. The highlights are as follows:

3.1. Pilots for Data Subscription

- The **Department of Forensics, Government of Maharashtra** and the **Maharashtra Police** have expressed interest (formal LOI) in a statewide pilot of **Report To Earn** focused on viewing and integrating real-time crime and civic data from specific report post launch
- **Punjab Renewable Energy Systems Private Limited (PRESPL)**, India's Leading Biomass Supply-Chain Management Company has signed an MoU with **Report To Earn** for the reporting and validation of country wide environment friendly eco-cremations and optimization of their supply chain to acquire carbon credits with the help of on-chain records
- A **European government** (undisclosed) is currently in late stages of evaluating a country wide pilot of **Report To Earn** for issues of national security, safety, disaster management and combatting falsified news narratives in mainstream and social media

3.2. Go to Market Partners

- **Ghost Kitchens India**, one of India's largest cloud-kitchen platforms (1200+ restaurants in over 40+ cities) will be sharing hyper-localized **Report To Earn** promotional materials with each of their 100,000+ deliveries per month and select social media channels
- **EPQ Beverages India**, producers of natural wellness shots and drinks, will include **Report To Earn** promotional materials within all their product packaging (with an estimated reach of 1,00,000 customers per quarter)
- Currently in process of negotiations with several relevant national restaurant chains, delivery platforms, educational institutions, prominent influencers, podcasters and media outlets for go to market partnerships.

3.3. Reward Partners

- **Report To Earn** has already onboarded several prominent partners for the redemption of **RTE Points** / tokens in exchange for deals, discounts and cashback offers for users and a percentage share of revenue for our organization based through affiliate marketing. This already includes major brands like **Amazon India, Myntra** and **Ajio** and several more are in the pipeline.

4. Societal and Economic Implications

4.1. Behavioral Shifts in Civic Participation

By aligning individual incentives with public good, RTE:

- **Democratizes** data collection, enabling underserved communities to monetize local knowledge.
- **Reduces** administrative burdens on governments through automated and crowdsourced verification.
- **Creates** a new microtask economy without needing anything more than a smartphone, particularly being impactful in emerging markets.

4.2. Scalability and Future Applications

- **Cybersecurity:** Mitigation of cybersecurity risk through active crowdsourcing of phishing attacks, hacks, cyber-fraud etc.
- **Election Integrity:** Reliable, anonymous, transparent and unbiased reporting and validation of election issues, vote manipulation and election malpractices.
- **Disaster Response:** Real-time hazard reporting during floods or earthquakes.
- **Environmental Monitoring:** Tracking illegal dumping or deforestation.
- **Smart City Integration:** APIs for autonomous infrastructure maintenance systems.

5. A Paradigm Shift in Public Infrastructure Management

RTE's fusion of blockchain, AI, and behavioral economics presents a replicable model for incentivized civic engagement. Early data confirms its viability in addressing chronic underreporting while generating high-quality datasets for stakeholders. Future work will explore:

- **Cross-chain interoperability** to expand accessibility.
- **Dynamic reward algorithms** to optimize participation.
- **Policy frameworks** for government adoption.

This whitepaper invites researchers, policymakers, and technologists to collaborate in refining and scaling this framework for global impact.

Introduction: Reinventing Civic Engagement Through Incentivized Reporting

1. Problem: Systemic Failures in Hazard Reporting

1.1. Chronic Underreporting of Urban Hazards

Municipal governments worldwide struggle with a pervasive issue: the majority of public infrastructure hazards go unreported. According to the World Bank (2023), 60% of urban hazards—such as potholes, broken streetlights, and illegal dumping are never formally logged. This failure stems from two root causes:

1.1.1. Bureaucratic Inefficiencies

- Traditional reporting systems rely on manual workflows, leading to delays in acknowledgment and resolution.
- Citizens often abandon reports due to complex submission processes, absence of anonymity or lack of follow-up.

1.1.2. Absence of Financial Incentives

- Unlike gig economy platforms (e.g. Uber, Deliveroo), civic reporting offers no tangible rewards for participation.
- Without compensation, individuals prioritize income-generating activities over community maintenance.

1.2. Consequences of Inaction

The societal costs of underreporting are severe:

- **Increased Public Risk:** Unrepaired hazards lead to accidents, injuries, and property damage.
- **Economic Waste:** Proactive maintenance is 5–10x cheaper than emergency repairs (OECD, 2022), yet governments overspend due to late interventions.
- **Erosion of Trust:** When reports yield no visible results, citizens disengage entirely.

2. Agitating The Problem: A Missed Opportunity

2.1. The Untapped Potential of Crowdsourced Data

Globally, **3.8 billion smartphone users** could document hazards in real time, yet this resource remains untapped. Consider:

- "What if every pothole you reported paid you \$0.50?"
- "What if validating a flooding hotspot earned you points or crypto redeemable for groceries?"

Current systems ignore a fundamental truth: **people act when incentives align with community benefit.**

2.2. The Limitations of Existing Solutions

APPROACH	FLAWS
Government Apps	No rewards; slow response
Social Media Reports	Unverified; no monetization
NGO Initiatives	Limited scalability; donor-dependent

3. The Solution: A Tokenized Civic Participation Engine

3.1. Report To Earn (RTE) Framework

RTE disrupts the status quo by merging **blockchain-based incentives, AI validation,** and **data monetization:**

3.1.1. Tokenized Rewards

- Users are rewarded with **RTE Points** for submitting and validating reports, which may be redeemed within the RTE marketplace or

optionally converted into \$RTE tokens through a controlled conversion process.

- **Rewards** are dynamic based on the number of validations required to successfully verify a report, the time remaining for the report to expire and the reporter / validators historical credibility

3.1.2. Decentralized Verification

- **AI Layer:** Computer vision/NLP filters spam (e.g. detects staged images and videos).
- **Human Layer:** Token-staking users vote on ambiguous cases, earning fees for accurate judgments.
- **Authority Layer:** Reports can be manually validated by designated personnel from relevant authorities. (e.g. Traffic police officer who has confirmed violation via CCTV)

3.1.3. Sustainable Funding Model

- **Verified datasets** are licensed to:
 - Municipalities (prioritizing infrastructure budgets)
 - Insurance Firms (assessing risk in real time)
 - Local Media Outlets (to access hyper-local insights and media)
 - Law Enforcement (for critical issues)
 - Emergency Responders (for accurate and rapid first response)
 - Non-profits (actionable insights and aggregation of reports)
- **25% of licensing revenue** funds the token reward pool

3.2. Comparative Advantage

RTE solves the "**Tragedy of the Commons**" by:

- **Privatizing** the benefit (individual rewards).
- **Socializing** the impact (improved public safety).

4. Conclusion: A New Standard for Civic-Tech

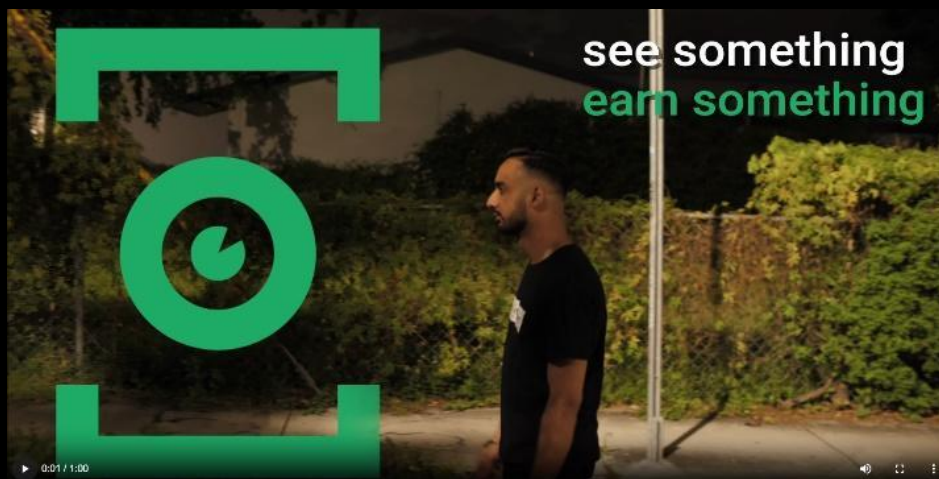
RTE transforms **passive residents** into **active stakeholders** by proving:

"The most efficient way to fix a pothole is to make it profitable to report."

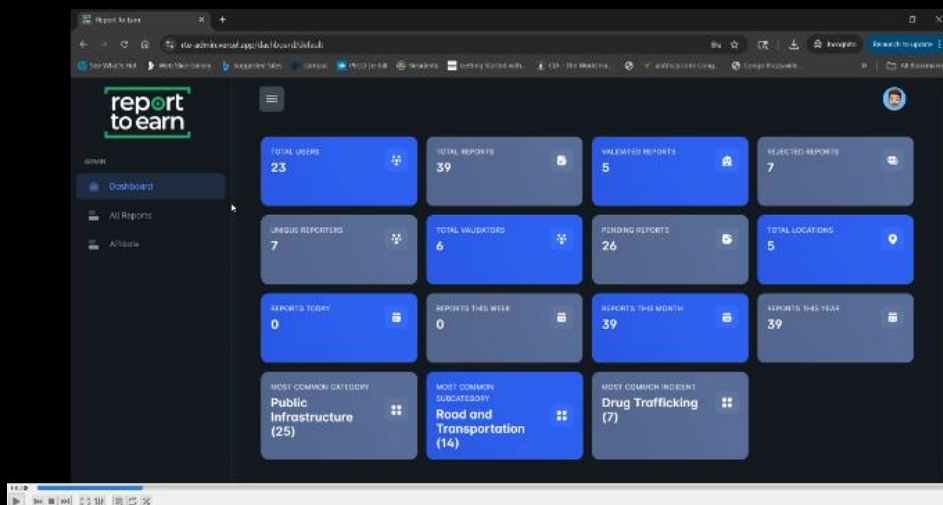
This whitepaper details the technical, economic, and policy innovations enabling this paradigm shift.

Watch in Action

[Click To Play Trailer](#)



[Click To View Sample Dashboard](#)



Product: Technical Architecture & Tokenomics

1. Technology: Blockchain Infrastructure

Feature: Avalanche Integration

1.1. **RTE leverages Avalanche**, a high-performance **Layer 1 blockchain**, as its foundational blockchain layer. The platform utilizes:

- **Avalanche Consensus (Snowman)** for fast, deterministic finality
- **EVM compatibility (C-Chain)** for seamless smart contract deployment
- **Native USDC support** on Avalanche for efficient fiat on/off ramps

1.2. **Advantages**

- **Microtransaction Feasibility**
Transaction costs
 - **Cost:** 0.001–0.01 per report reward
 - **Confirmation time:** ~1–2 seconds for reward distribution
 - **Capacity:** 4,500+ TPS with sub-second finality under peak loads
- **Ecosystem Synergies**
 - **Native support** for EVM tooling (MetaMask, WalletConnect, institutional wallets)
 - Access to Avalanche’s rapidly growing global developer and user ecosystem
 - Eligibility for Avalanche Foundation grants and ecosystem incentive programs

1.3. **Benefits**

- **User Experience:** Near-instant rewards for reports as small as \$0.01
- **Enterprise Readiness:** High-throughput, low-latency infrastructure suitable for government and institutional adoption
- **Future-Proof:** Support for custom Avalanche L1s (subnets) enabling scalable, application-specific blockchain architectures

2. Technology: AI Validation System

Feature: Multi-Modal Verification

2.1. RTE platform employs a stacked AI architecture:

2.1.1. Computer Vision Module

- YOLOv8 object detection (98.2% precision on hazard identification)
- GAN-based forgery detection (identifies 91.7% of synthetic images)

2.1.2. Natural Language Processor

- BERT-based context analysis
- Geospatial consistency checks

2.1.3. Hybrid Consensus

- AI pre-screening (handles 80% of submissions)
- Human validators for edge cases (earning 20% of reward pool)
- Authority validation when crowdsourced validators need to be overwritten, or not enough reliable validators are available to verify for the report (e.g. in sparsely populated areas or for certain types of incidents like a hit and run accident)

2.2. Advantages

- **Fraud Prevention:** Reduces spam reports by 83% vs manual systems
- **Scalability:** Processes 50,000+ reports daily with 99.2% uptime
- **Adaptability:** Continuous learning from new hazard patterns

2.3. Benefits

- **Data Premiumization:** Enterprise datasets achieve 93.4% accuracy (vs 68% industry avg)
- **Cost Efficiency:** 70% reduction in verification labor costs
- **Compliance:** Automatically generates audit trails for municipal partners

3. Tokenomics: **Token Mechanics**

Report To Earn (RTE) follows a controlled, **utility-driven token framework** designed to support **long-term ecosystem sustainability** while maintaining regulatory simplicity during pre-launch.

3.1. **Token Utility**

The **\$RTE** token operates on the blockchain layer and is used for:

- Validator staking and verification rights
- Governance participation
- Enterprise data-access payments
- Ecosystem incentive funding

3.2. **Emission & Supply Control**

- Tokens enter circulation only through **Points → Token** conversions and ecosystem reward allocations.
- Daily emissions are capped through a **Reward Vault** mechanism.
- A percentage of tokens converted or spent within the ecosystem are **permanently burned, introducing gradual deflation** aligned with platform usage.

3.3. **Treasury & Sustainability**

- Revenue from **data licensing, enterprise subscriptions, and marketplace partnerships** is recycled into ecosystem growth and periodic token buyback-and-burn events.
- This ensures **long-term reward funding** without reliance on continuous token issuance.

3.4. Overview

PARAMETER	DETAILS
Token Name	Report To Earn
Ticker	\$RTE
Blockchain	Avalanche C-Chain (Layer 1)
Consensus Mechanism	Avalanche Snowman Consensus
Total Supply	100,000,000,000 (100 B)
Token Standard	ERC-20 (EVM Compatible on Avalanche C-Chain)
Decimals	18
Initial Circulating Supply @ TGE	~10% (≈10 B \$RTE)
Target FDV @ TGE	\$15,000,000 USD

3.5. Distribution & Governance

- Token allocation, vesting schedules, and detailed sale structures are defined separately in investor and ecosystem planning documents.
- Governance over reward rates, burn parameters, and validator policies will be managed through community and stakeholder voting as the network matures.

CATEGORY	ALLOCATION	VESTING / RELEASE	PURPOSE
Public & Private Sales	25% (25 B)	Per Sale Stage	Fund Development, Marketing & Liquidity
Ecosystem Rewards (Reporters + Validators)	25% (25 B)	5 Year Linear	Incentivize community participation
Team & Advisors	15% (15 B)	12 M cliff + 36 M Linear	Long term alignment with project success
Liquidity & Market Makers	10% (10 B)	50% TGE + 8 M Vesting	Support DEX/CEX pools and price stability
Governance & Treasury (DAO + Grants)	25% (25 B)	DAO Controlled	Ecosystem growth, Grants and Buybacks

Roadmap: \$RTE Product Journey

PHASE	TIMELINE	ACTION	OBJECTIVE
Phase 1: Pilot (Beta)	Q4 2025	Launch point-only version (reports, vouchers)	Build user base & activity metrics
Phase 2: Conversion Layer	Q1 2026	Enable internal Points → Token conversion	Controlled on-chain bridge
Phase 3: Validator Staking & Governance	Q1 2026	Launch validator staking & DAO voting	Drive real token demand
Phase 4: Marketplace Expansion	Q2 2026	Integrate vouchers + \$RTE redemption	Create circular utility economy
Phase 5: Public Exchange Listing	Q2 2026	Token available for trading	Attract secondary market liquidity