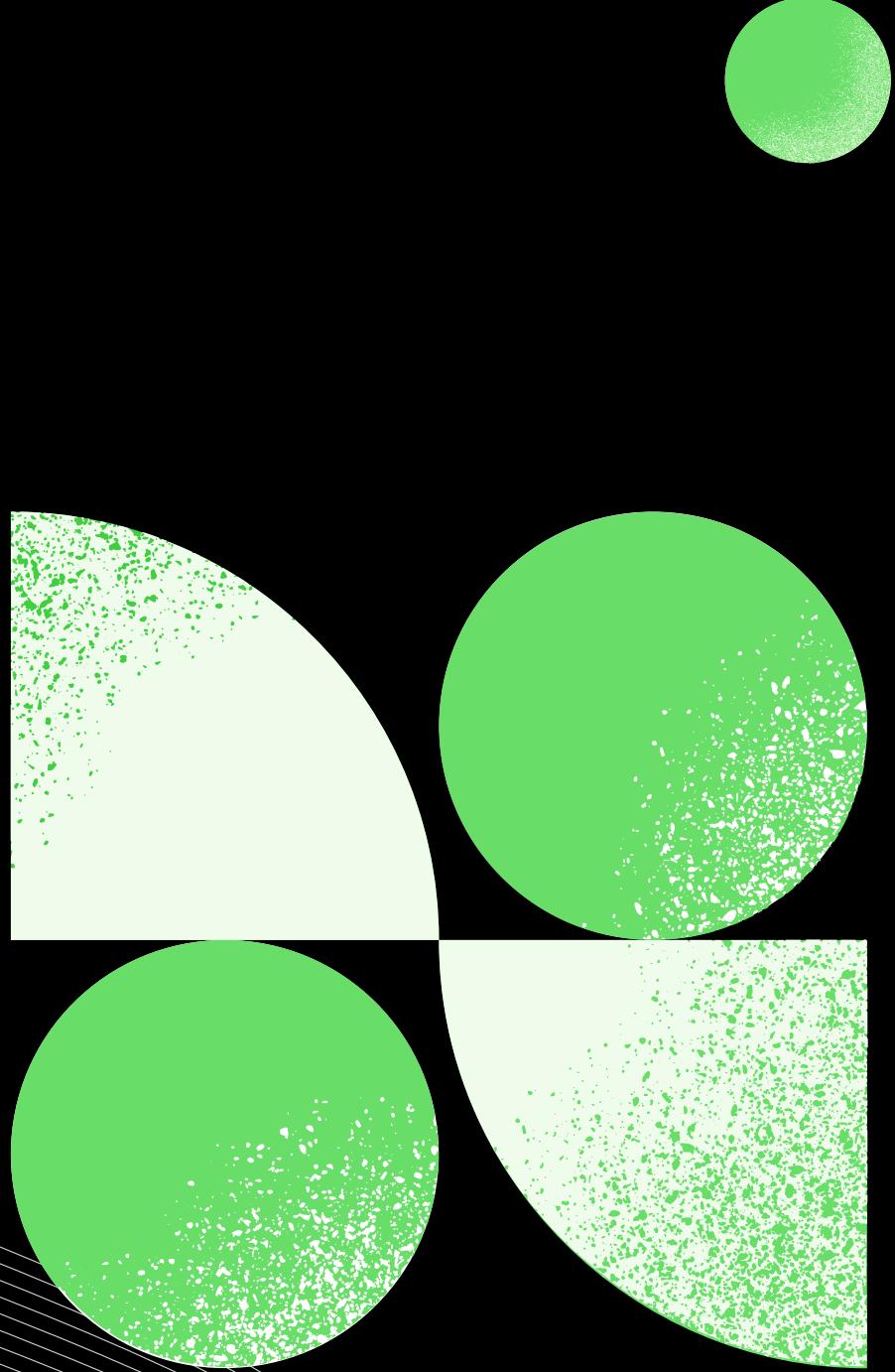


Green Ledger

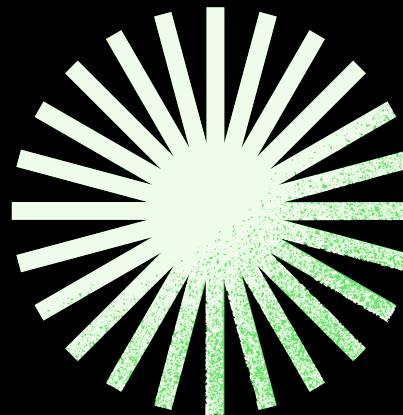


Blockchain Transparency for Agriculture.





Revolutionizing Agricultural Supply Chains with NFT-Backed Provenance



● About Us

● Problem Statement

● Solution

● Key Features

● Product Overview

● Progress Roadmap

● Mile Stones

● Thank You

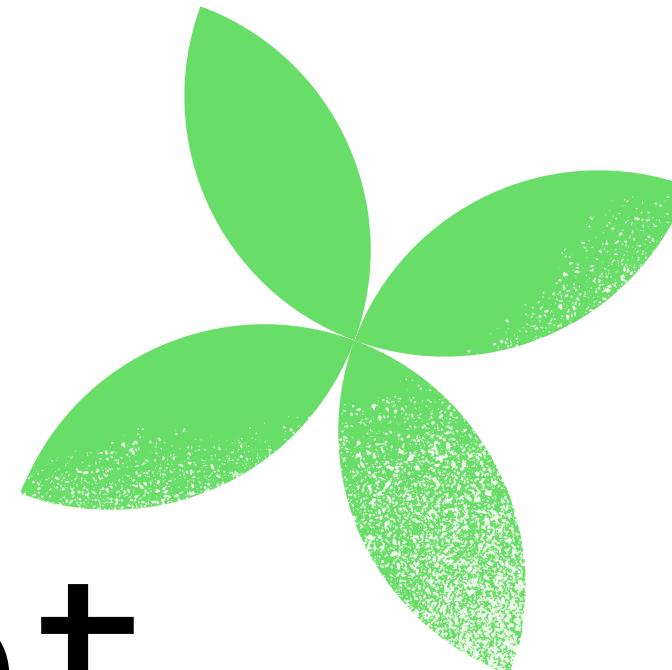


Problem

- Lack of Trust and Transparency in Agri-Supply Chains
 - Traceability is Broken
 - Paper-based records lead to disputes.
- Consumers can't verify product origins.



Problem Statement



Farmers

Farmers who form the backbone of food production struggle with fragmented supply chains, lack of price transparency, and minimal access to financial services.

Transporters

Agricultural transporters struggle with poor coordination, delayed payments, and lack of trust across the supply-chain leading to inefficiencies, disputes, and lost income.



Buyers

High risk, poor traceability, and limited data-driven insights for buyers. The absence of a trusted, digital-first infrastructure hampers scalability, accountability, and sustainable growth across the agricultural value chain.

Green Ledger



Solution

◆ Green- Ledger

- A blockchain platform using NFTs (ERC1155) to track crop batches.
- Provides transparent, immutable, and verifiable provenance records.
- It enhances trust, simplifies auditing, and empowers consumers.



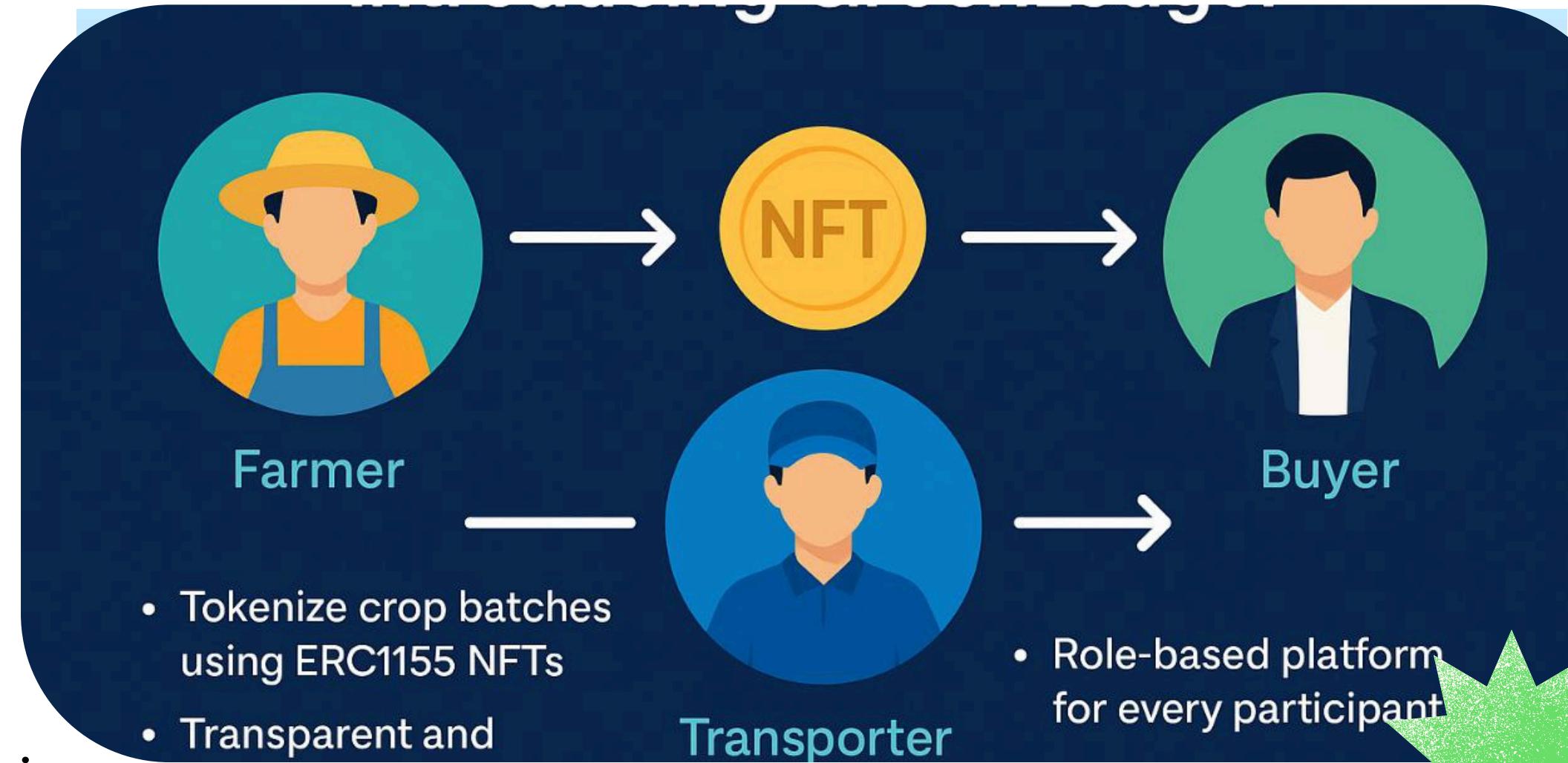
Green Ledger



Farmers

- Farmer mints and manage crop batches(Crop batch NFT).
- Transfer and track batches in transit. Transfers NFT to Buyer.
- Verify authenticity and trace crop history.

Transporters



Buyers

★ All ownership changes are logged on-chain for verification.

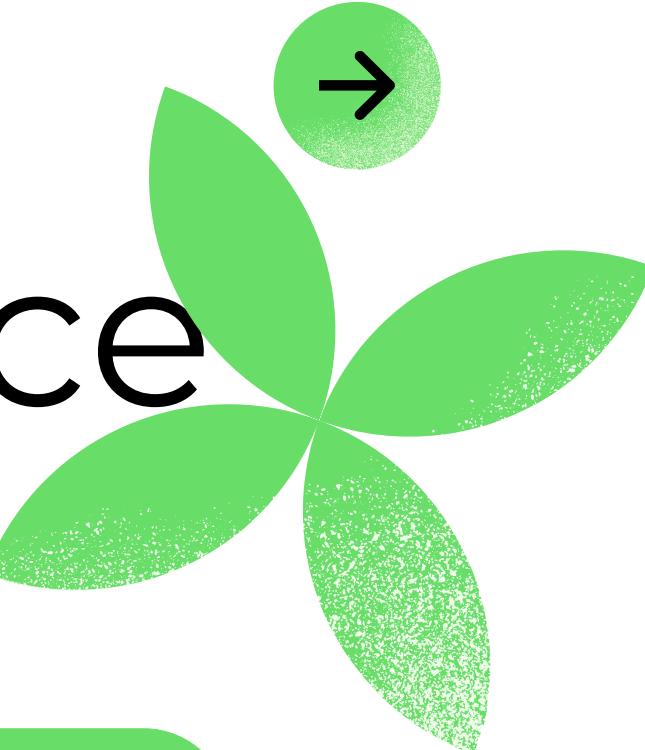
How it works



Key Features

- NFT-based batch tokenization using ERC1155.
- Role-based access: Farmer → Transporter → Buyer.
- Real-time provenance tracking.
- User-friendly dashboards.
- IPFS for off-chain metadata.





Vision, Impact , Target Audience

Vision

- Our vision is to build a trustworthy and transparent Agri eco-system one where every product has a verifiable story.
- We're bridging the gap between technology and agriculture to empower local economies and global food safety

Target Audience

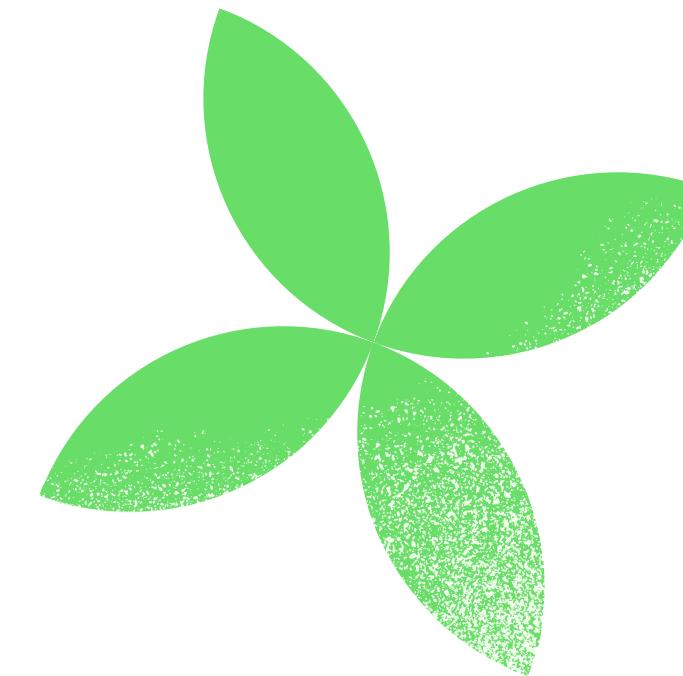
- Our users include smallholder farmers, transporters, wholesalers, retailers, and regulators.
- We're building for those who move, manage, or inspect food supply giving them tools to verify, track, and trust.

Competitive Edge

- Unlike traditional traceability systems, Green-Ledger leverages blockchain to provide immutable records, scalable tokenization via ERC1155, and modular smart contracts.
- It's designed to be lightweight, accessible, and secure.

Green Ledger

Progress & Roadmap



Q2

MVP Completion & Testnet Deployment

- Complete and test smart contracts on a public testnet.
- Finalize MVP frontend functionality and user roles.
- Begin internal testing and collect early feedback.

Q3

Feedback, Iteration & Partnerships

- Gather user feedback from testnet users.
- Fix bugs and refine UX based on real-world testing.
- Start partnership outreach with agri-cooperatives and tech incubators.



Q1

Foundation & MVP Development

- Finalize core architecture and smart contract structure.
- Development of MVP (Minimum Viable Product).
- Set up version control, documentation, and team workflows.

Q4

Mainnet Launch & Scaling

- Launch on mainnet with selected pilot partners.
- Begin onboarding additional users and organizations.
- Plan for advanced features and second-year expansion.



Green Ledger

MileStone Projection



Q2 Milestones

- Deploy contracts on Lisk Sepolia.
- Implement full UI dashboards for Farmer, Transporter, Buyer
- Enable token minting, ownership transfers, provenance viewer
- Conduct internal QA/testing
- Publish technical documentation and README



Q3 Milestones

- Feedback round with early users (farmers, transporters, buyers)
- Smart contract optimization and security audit (basic/manual)
- Secure 1–2 pilot partners for live testing
- Launch marketing/pitch materials
- Improve dashboard based on role-specific usage patterns

Q1 Milestones

- Smart contract prototypes: UserManagement, CropBatchToken, SupplyChainManager
- Frontend UI skeleton with wallet integration (MetaMask)
- IPFS setup for off-chain metadata
- Team roles assigned and project scope locked
- MVP roadmap drafted

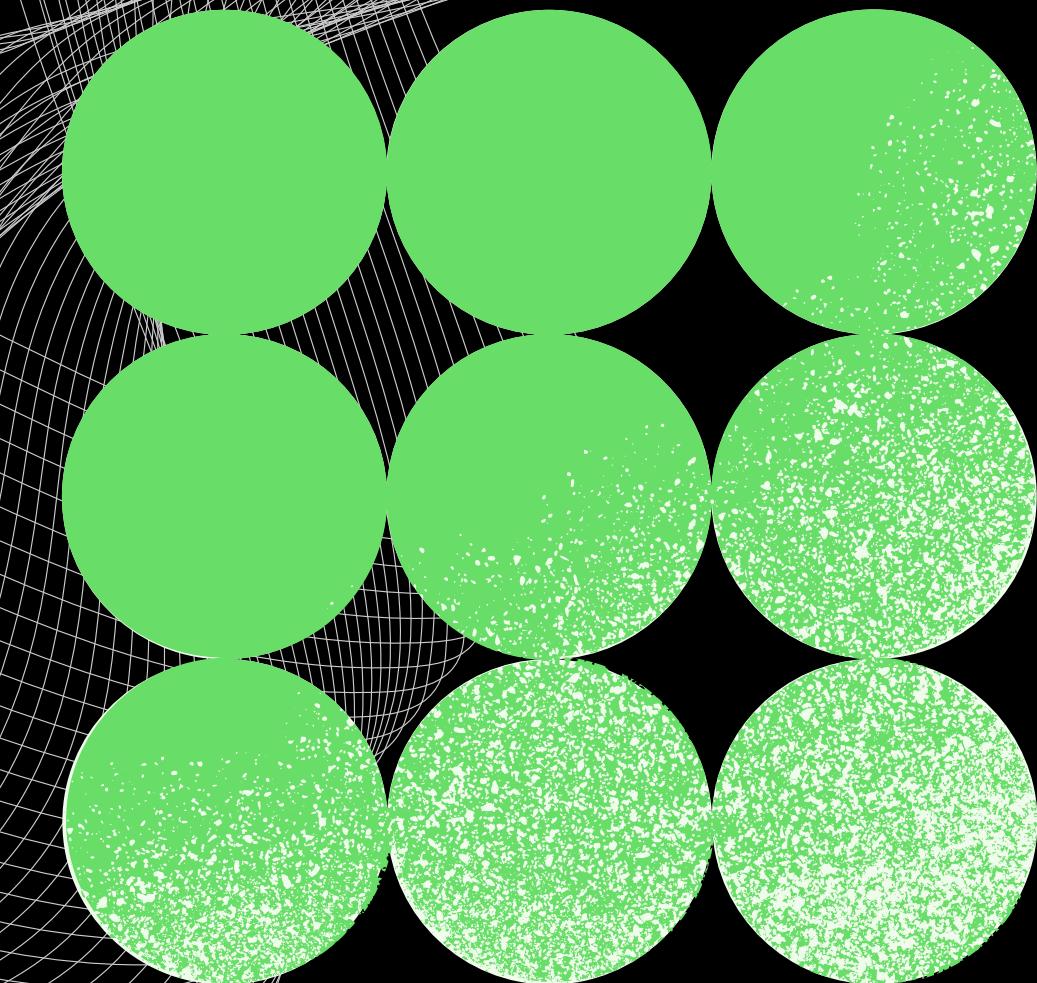
Q4 Milestones

- Mainnet deployment (Ethereum or L2)
- Onboard initial farmer cooperatives and transporters
- Track and report performance metrics (NFT transfers, provenance lookups)
- Define V2 roadmap: mobile app, payments, IoT integration
- First-year impact report & funding proposal





Thank You



We are looking for strategic partners, pilot users and support to take green-ledger from prototype to a real-world product.