

TRST01

TRUST · TRANSPARENCY · TRACEABILITY



Pioneering Impact in SEA and AFRICA

Usecases

SUSTAINABLE SUPPLY CHAINS | ESG MONITORING & REPORTING | CLIMATE ACTION MEASUREMENT

Contact

+91 9052 00 6371
+65 8809 8140
prabir@trst01.com
manoj@trst01.com

Singapore

TRST01 Global Ventures,
#09-02, Cecil Court, 138 Cecil
Street, Singapore 069538

Global Offices

India
Australia
United Arab Emirates
United States of America
Cote d'Ivoire

Website

www.trst01.com



TRST01Chain Use Cases South East Asia

TRST01Chain is deployed across Southeast Asia for rubber and coffee supply chains, utilizing AI models for deforestation screening, land-use classification, and automated compliance reporting.

Malaysia

21,000 Hectares

2,600 Farmers

Indonesia

85,000 Hectares

9,000 Farmers

Thailand

24,000 Hectares

1,600 Farmers

Laos

1,668 Hectares

2 Estates

These deployments **reduce identity loss, cut compliance costs, accelerate regulatory reporting, and strengthen ESG data credibility** through an AI stack that integrates **government data, GPS-based farmer registration, and automated buyer disclosures**

In Côte d'Ivoire (IVC), TRST01Chain has successfully deployed its AI-enabled platform, specifically tailored for African smallholder contexts, with significant results

Cote d'ivoire

92,500 Hectares

27,500 Farmers

Key outcomes

- Farmers Visibility
- Strengthened Cooperatives
- Enhanced ESG Data
- Cost Reduction

The platform applies **AI-driven satellite analysis to set EUDR-compliant deforestation** baselines and uses AI-based aggregation to preserve **lot integrity**, strengthening **traceability** and **compliance**.

TRST01's innovative dual-platform approach integrates cutting-edge AI to provide comprehensive solutions for both agricultural supply chain traceability and national climate governance. This ensures verifiable compliance and transparency at every level.

TRST01Chain: Agricultural Traceability

Focuses on securing agricultural supply chains from farm to consumer, ensuring deforestation-free practices and ethical sourcing.

- **Discriminative AI:** Geospatial analysis for deforestation detection, land-use classification, and yield validation.
- **Generative AI:** Automates comprehensive compliance reporting for regulatory bodies and buyers.



TRST01Veritas: National Climate Governance

Supports sovereign nations in meeting climate commitments, enhancing carbon market integrity, and managing national emissions reporting.

- **Discriminative AI:** Monitors and verifies national emissions, land-use change, and carbon credit integrity.
- **Generative AI:** Creates compliance narratives & facilitates transparent communication with farmers and stakeholders.

Together, these platforms empower stakeholders with the verifiable data and insights needed to drive meaningful climate action and foster a transparent, sustainable global economy.

TRST01Veritas: Sovereign Digital Climate Governance



1

Malawi Climate Finance Platform

World's first AI-verified Paris Agreement Integrated Platform (PAIP) consolidates sectoral emissions datasets with AI-based validation and anomaly detection. Supports automated reporting aligned with UNFCCC frameworks and serves as single source of truth for climate reporting and investor due diligence.

These implementations demonstrate how AI, when embedded within robust governance and standards-based systems, enables scalable and financeable models for governments, exporters, and climate finance stakeholders. The platforms serve national regulators, forest agencies, carbon project developers, climate finance institutions, and international verification bodies while supporting both compliance reporting and voluntary carbon market participation.

Democratic Republic of Congo

National Digital Carbon Credit Registry launched at COP30 in Belém, integrating discriminative AI for forest cover classification and deforestation detection. Blockchain-backed registries ensure immutable tracking of carbon assets with automated MRV workflows aligned with Article 6 of the Paris Agreement.

National-scale coverage across priority forest regions enables transparent registration, issuance, and tracking of carbon credits linked to REDD+ and nature-based projects.

2


Governance & Transparency


Both systems prioritize sovereign data control, interoperability with international carbon standards, and capacity building for government users. AI-powered verification strengthens transparency, reduces verification costs, and enhances investor confidence in climate finance mechanisms.


Scaling Climate Infrastructure


Our roadmap outlines ambitious expansion plans, building on our proven solutions to deliver even greater impact in climate accountability and sustainable development.

 **Global Expansion**
Extending TRST01Chain to new agricultural commodities and underserved regions, fostering sustainability worldwide.

 **Empowering Farmers**
Scaling farmer-centric tools and outreach programs to ensure inclusive participation and benefits.

 **Finance Architecture**
Strengthening TRST01Veritas to catalyze and secure global climate finance flows for impact.

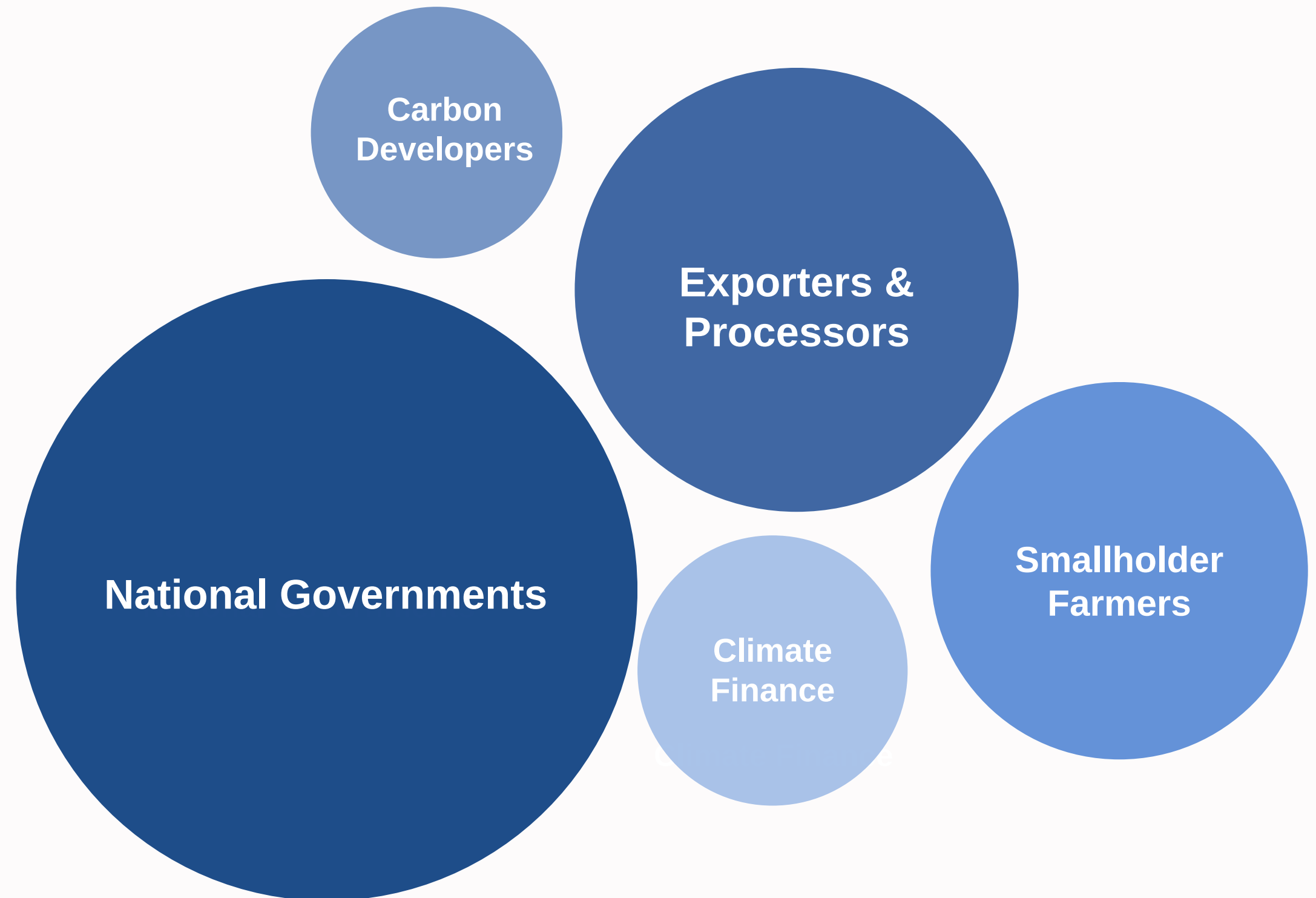
 **Standards Alignment**
Seamless integration with evolving international climate and trade standards for universal compliance.

 **AI Innovation**
Continuous advancement of AI models for predictive analytics, real-time monitoring, and deeper insights.

Stakeholder Ecosystem

TRST01's dual-platform approach creates a robust ecosystem where various stakeholders benefit from enhanced transparency, verifiable data, and streamlined compliance. This interconnected network is crucial for driving effective climate action and sustainable development.

This collaborative framework ensures that the benefits of TRST01's technology extend across the entire value chain, fostering a transparent and accountable environment for climate action and sustainable trade.



Smallholder Inclusion: Empowering Farmers

TRST01 empowers smallholder farmers by providing tools that enhance their visibility, market access, and financial transparency within sustainable supply chains.



Easy Onboarding & GPS Mapping

Farmers use mobile devices for self-registration and accurate GPS boundary capture, simplifying data collection at the source.



Preserved Lot Integrity

AI-based aggregation ensures smallholder identity and product integrity are maintained throughout the supply chain.



Access to Premium Markets

Verifiable data opens doors to higher-value, deforestation-free markets, connecting farmers with ethical buyers.



Improved Income Transparency

Clear visibility into market prices and payments ensures fair compensation and builds financial literacy for farmers.



Impact by the Numbers

Our AI-powered solutions are driving measurable change across global supply chains and national climate initiatives. Here's a snapshot of our achievements:

202K+

Hectares Covered

Monitored for deforestation and sustainable land use.

47K+

Farmers Engaged

Empowered with verifiable data and market access.

35+

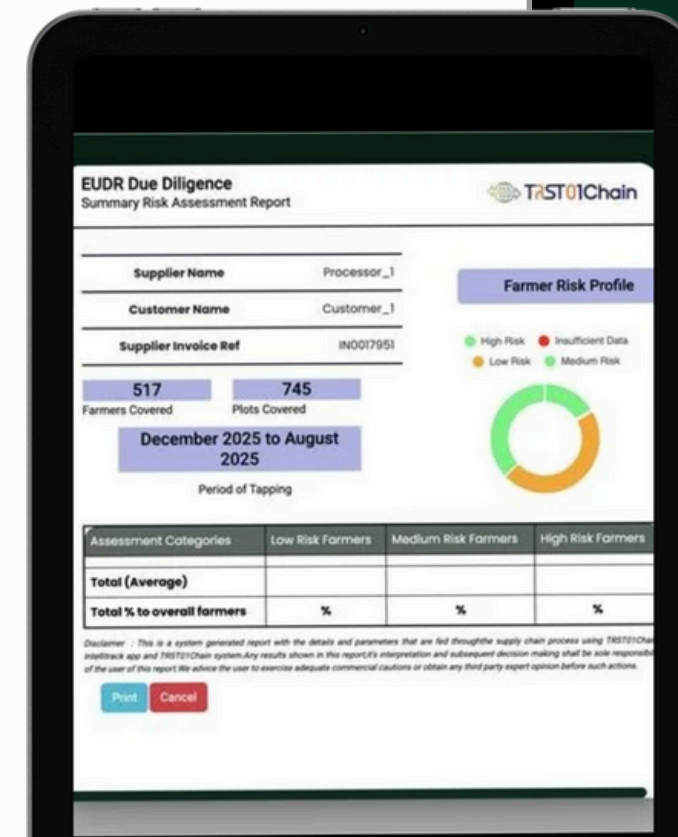
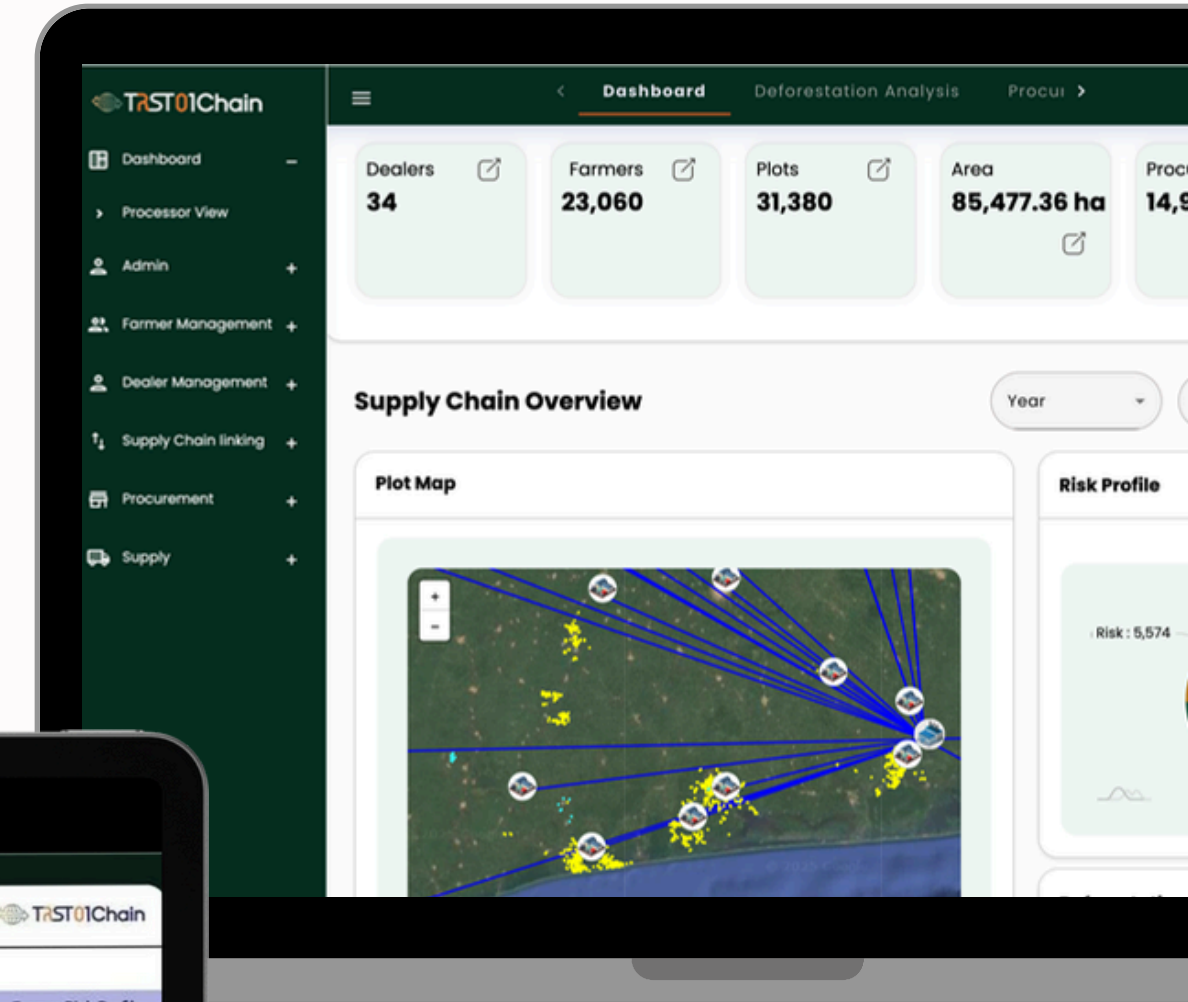
Cooperatives Integrated

Strengthening local partnerships and supply chain integrity.

5

Countries Deployed

Spanning agricultural traceability and national climate governance.



Technology Stack: How AI Powers Verification

TRST01's solution is built on a robust, multi-layered technology stack, integrating advanced AI capabilities with secure distributed ledger technology to deliver verifiable compliance and transparency.

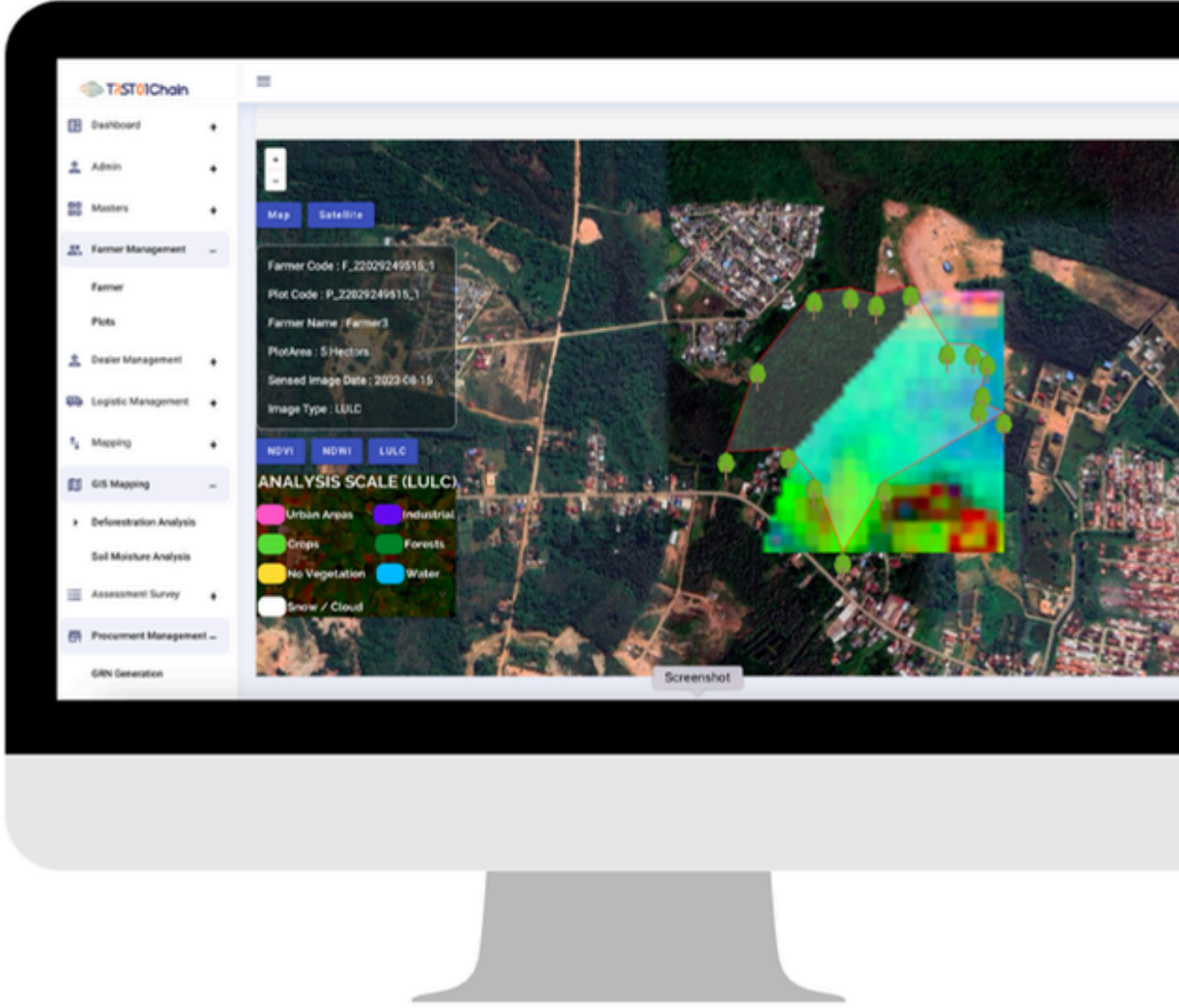


Geospatial AI

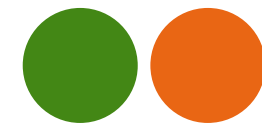
Discriminative AI

Generative AI

Blockchain Tracking



Thank You



Email
journey@trst01.com



Website
<https://trst01.com/>

