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Carbon Atlas

The Carbon Digital MRV Platform

Friday, June 13, 2025 | 10:30 – 12:00 PM

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Deputy Executive Director, GISTDA

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Welcome to innovative remote sensing & Al-based carbon DMRV service.

With cutting-edge technology and expertise, we offer accurate and efficient solutions for unlocking your green and carbon economy.

Key Benefits:

- Approved Methodology: Officially approved by TGO under the T-VER framework.
- High Accuracy: Built using > 1,000 field plots collected with 3D terrestrial laser scanning, ensuring robust biomass and carbon modeling with validated accuracy.
- Lower Costs: Cut MRV expenses by up to 70% through satellite-based remote sensing and automation.
- Scalability: Suitable for any project size—from a few rai to millions of hectares—enabling both smallholder and National-level initiatives..

Applications:

- Carbon Credit: Generate field-scale carbon data aligned with TGO-approved methodologies for T-VER credits.
- REDD+ and Forest Carbon: Monitor and quantify forest carbon changes for conservation and restoration initiatives.
- Insurance & Finance: Provide insurers and financiers with trusted carbon data to underwrite or invest in green assets.
- Government & Corporate: Power national inventories and regional climate action plans with accurate, scalable carbon intelligence.



Carbon Atlas

Key Features:

- **Digital MRV System:** Advance satellite analytics and AI powered remote sensing for fully automated carbon stock estimation.
- Field Scale Carbon Estimation: Accurate at the plot level for forests, farms, and agroforestry lands.
- **T-VER Ready Reports:** Outputs meet criteria and are ready for submission to the T-VER registry.
- Smart Dashboard: Track carbon removal, sequestration, and project performance in real time.
- Open APIs: Access MRV services and data directly via secure RESTful API.

Key Areas:





Forest



Plantation

How It Works:

• **Define Land Parcel:** Upload field boundary or use interactive map to select area, then automatically check geolocation criteria.

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Forest

- Run Models: Process data and generate carbon estimates with TGO-approved models.
- Review MRV Report: Output includes carbon stock, emissions/removals, and credit potential aligned with T-VER.
- Download or Connect via API: Get data in report format or integrate via APIs for automated workflows.

Contact Us:

For inquiries or to learn more about our tree carbon DMRV service, please contact us:

Phone: +66 2141 4444 Email: service@gistda.or.th Website: www.gistda.or.th





3D Scanning Plots

Forest Canopy Density





Burn area



High risk Moderate risk Low risk Very low

Drought

Additional GISTDA





The satellite-powered platform for estimating carbon storage to support climate action and sustainable management.



Carbon dMRV service

Use advance satellite analytics and AI – powered remote sensing to automatically estimate carbon stock.



Carbon credit at fieldscale

Calculate carbon credits at the plot level to support verification and participation in carbon markets.



MRV Open APIs Access MRV services and data

Access MRV services and data directly via secure RESTful API.

Contact Us:

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Customers / Users	Services	Pricing Models
	 Project Development MRV Dashboard 	Per-project or Revenue Sharing (per credit)
Landowners		
	Project Portfolio ManagementMRV Report	Per-project or Revenue Sharing (per credit)
Project Developers		
	 Smart Dashboard Actionable Insight 	Subscription
Insurances		
	API AccessAI Model SandboxAnalytics Dashboard	Subscription
Application Developers		
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Delivering Values from Space

Partners



