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# Carbon Atlas

### The Carbon Digital MRV Platform

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

#### Kandasri Limpakom

Deputy Executive Director, GISTDA

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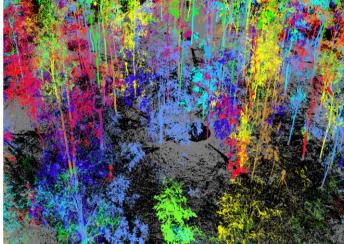


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#### Welcome to innovative remote sensing & Al-based carbon DMRV service.

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

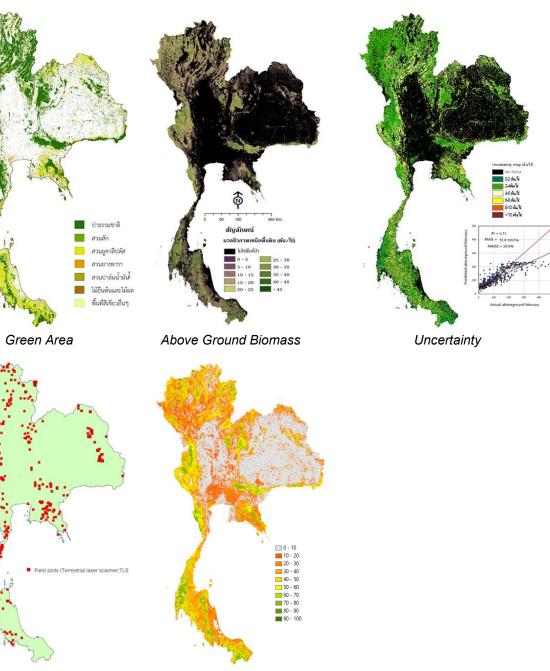
- Run Models: Process data and generate carbon estimates with TGO-approved models.
- Review MRV Report: Output includes carbon stock, emissions/removals, and credit potential aligned with T-VER.
- Download or Connect via API: Get data in report format or integrate via APIs for automated workflows.

#### Contact Us:

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

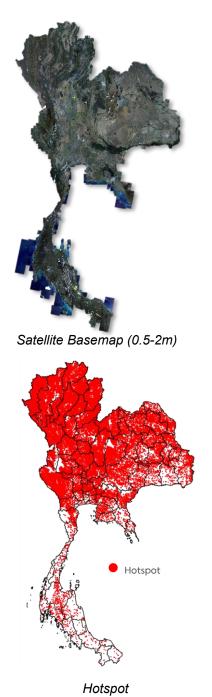
Phone: +66 2141 4444 Email: service@gistda.or.th Website: www.gistda.or.th

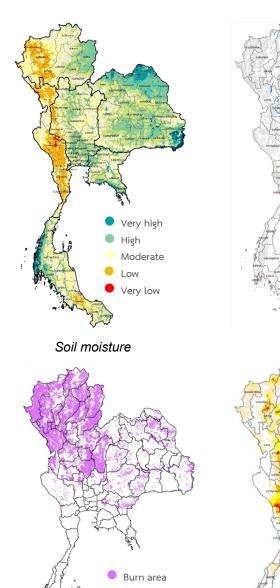




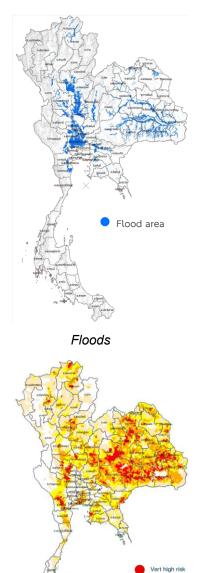
3D Scanning Plots

Forest Canopy Density





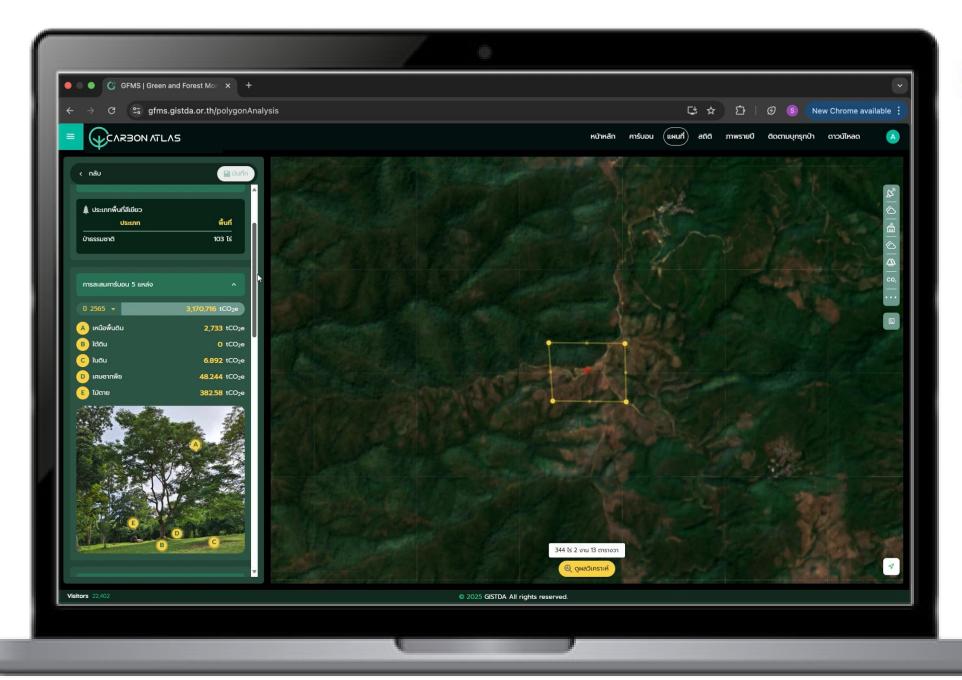
Burn area



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:

For inquiries or to learn more about platform, please contact us:

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

Customers / Users	Services	Pricing Models
	<ul> <li>Project Development</li> <li>MRV Dashboard</li> </ul>	Per-project or Revenue Sharing (per credit)
Landowners		
	<ul><li>Project Portfolio Management</li><li>MRV Report</li></ul>	Per-project or Revenue Sharing (per credit)
Project Developers		
	<ul> <li>Smart Dashboard</li> <li>Actionable Insight</li> </ul>	Subscription
Insurances		
	<ul><li>API Access</li><li>AI Model Sandbox</li><li>Analytics Dashboard</li></ul>	Subscription
Application Developers		
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# **Delivering Values from Space**

Partners



