

## Geo Al innovations in RLCMS for MRV and Digital commodity traceability

SERVIR SEA is harnessing Geo AI and machine learning to enhance the Regional Land Cover Monitoring System (RLCMS) in Southeast Asia. By employing deep learning techniques for mapping deforestation alerts, crop types, and engaging with REDD+ partners in Cambodia, the service is significantly improving Measurable, Reportable and Verifiable (MRV) capabilities in REDD+ projects. This innovation enables more accurate crop type mapping in Cambodia, a key element in advancing digital traceability. This data is instrumental in forest protection and promoting sustainable agricultural practice.

## **Partners & Collaborators**

- USAID Morodok Baitang Cambodia
- Oregon State University
- UNDP Cambodia
- SilvaCarbon
- General Department of Agriculture (MAFF Cambodia)
- Forest Data Partnership
- Food and Agriculture Organization

## **Conceptual Framework**



This conceptual diagram shows the various datasets and algorithm that are used to support production of several land cover data products.

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applications in SouthEast Asia











