SERVIR, RLCMS, and Google Earth Engine

SERVIR-Mekong developed a new state-of-the-art tool called the Regional Land Cover Monitoring System (RLCMS) that uses remote sensing, open data, and the power of cloud computing through Google Earth Engine to develop high-quality maps and land cover change analysis across the Lower Mekong region. Using RLCMS, SERVIR-Mekong is supporting countries to monitor their land resources and estimate greenhouse gas emissions, building capacity to monitor and analyze forest landscapes, land cover change, and land use change.

FOREST MONITORING/MAPPING

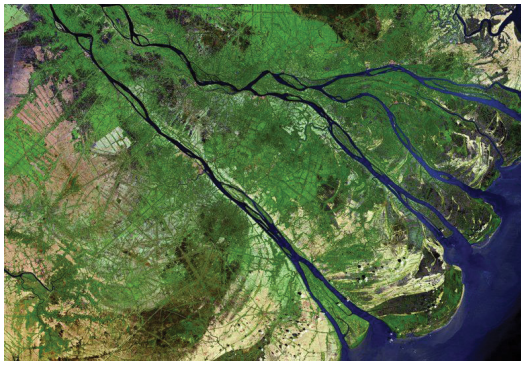
The cloud-based computing and machine learning approach of the RLCMS from SERVIR-Mekong is an innovative approach in forest mapping, and calculating land-based sources and sinks of greenhouse gases.

COLLABORATING FOR IMPACT

SERVIR-Mekong collaborated with SilvaCarbon, to build capacity of Vietnam's Forest Inventory and Planning Institute (FIPI) in utilizing the RLCMS approach and Google Earth Engine for improving forest monitoring in Vietnam.

LAND MANAGEMENT/DATA ACCESSIBILTY

RLCMS helps address challenges to land management, including difficulties in accessing data, limited financial and staff resources, lack of transparency in methodologies, and inconsistencies in land cover maps.



Landsat satellite composite image of the Lower Mekong region.

> "Myanmar developed good quality time series maps of land cover from 1990 to 2017 for the first time through a partnership with SERVIR-Mekong."
>
> —**Dr. Myat Su Mon**, *Deputy Director of Myanmar's Forest Department, Ministry of Natural Resources and Environmental Conservation*

SERVIR connects space to village by helping developing countries use satellite data to address critical challenges in food security, water resources, weather and climate, land use, and natural disasters. A partnership of NASA, USAID, and leading technical organizations, SERVIR developes innovative solutions to improve livelihoods and foster self-reliance in Asia, Africa, and the Americas.