

SilvaCarbon collaboration with GFOI

Partnering to Measure Forest Carbon
GFOI Capacity building component

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SILVACARBON PARTNERS

- U.S. Agency for International Development
- U.S. State Department
- U.S. Geological Survey
- U.S. Forest Service
- NASA
- U.S. Environmental Protection Agency
- Smithsonian Institution

As well as U.S. universities, NGOs, donors and industry



PARTNER COUNTRIES

Americas

Belize
Brazil
Colombia
Costa Rica
Ecuador
El Salvador
Guatemala
Honduras
Mexico
Nicaragua
Panama
Peru

Africa

Cameroon
DR of Congo
Gabon
R of Congo
Zambia

Asia

Bangladesh
Cambodia
Indonesia
Lao PDR
Nepal
Philippines
Thailand
Vietnam
Bhutan



PROGRAM OVERVIEW

A flagship program under U.S. fast start financing for REDD+

A U.S. contribution to the GEO Global Forest Observation Initiative (GFOI)

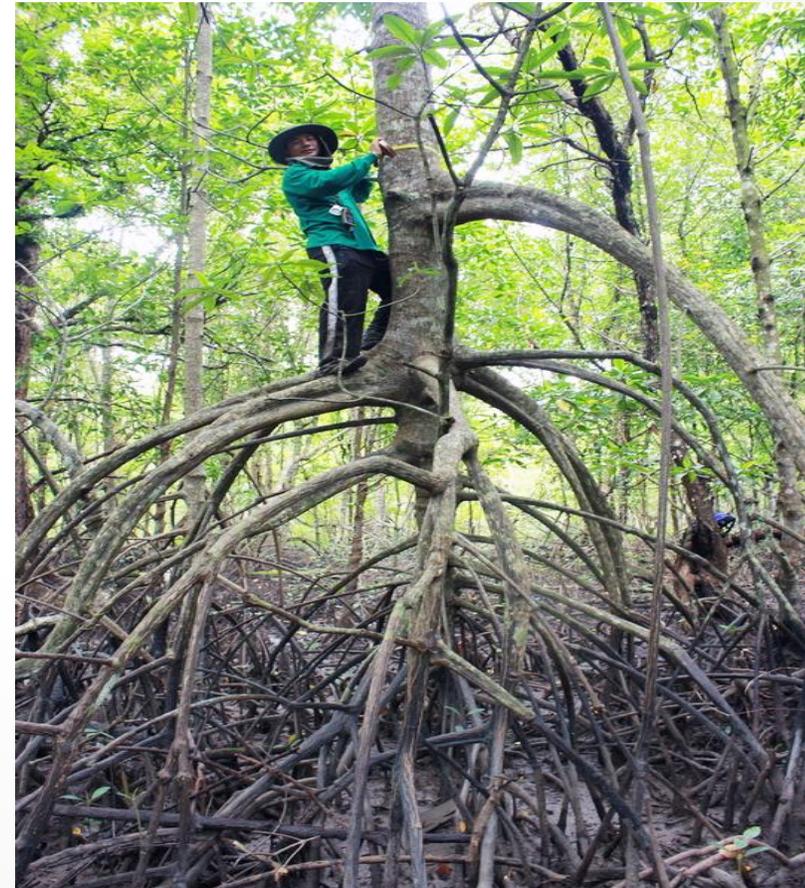
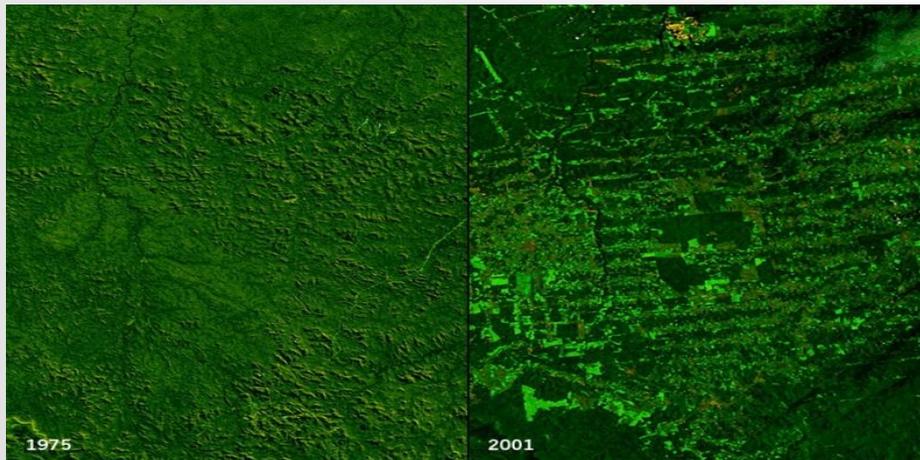
SilvaCarbon objectives:

- Partner with developing countries to improve monitoring of forest and terrestrial carbon
- Improve understanding of methodologies and collection and dissemination of data
- Coordinate US science, innovation, and technical expertise



HOW IS SILVACARBON HELPING TO MEET COUNTRY NEEDS

- Improved Forest Inventories
- Improved remote sensing
- Integration of remotely sensed and ground data
- GHG inventory and reporting (ALU tool)
- Advancing research



Goddard Space Flight Center Scientific Visualization Studio/NASA
Rondonia, Brazil – Human deforestation impact

WHAT ARE THE SPECIFIC NEEDS OF REDD+ COUNTRIES IN TERMS OF FOREST MONITORING AND MRV

Needs assessment varies among countries, the person asked in the country, and the program conducting the assessment

- Governance (legal frameworks, mandates and institutionalization of REDD+ processes)
- Capacity to set reference levels, and monitoring safeguards
- Technical, financial and administrative support
- Need to implement National Forest Monitoring Systems for other purposes beyond REDD+
- REDD projects in states and provinces for some regions
- Emerging technologies

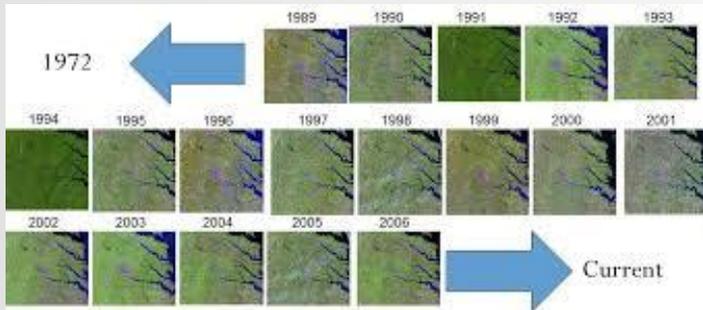
REMOTE SENSING

- **Does not developed tools, but support the development and testing of tools.**
- Present all GFOI capacity building efforts supporting forest cover mapping for reporting to REDD+
- Support countries establish partnerships and implementing remote sensing methodologies
- Promote research around EO for forest monitoring



CAPACITY BUILDING TOOLS GFOI

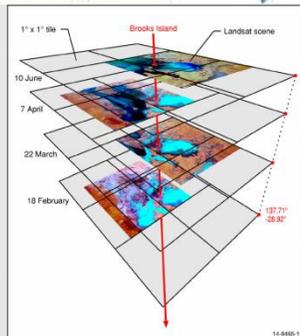
GFOI partners implement different methods in countries supported by capacity building



Landsat time series analysis

Different methods developed by universities and federal agencies

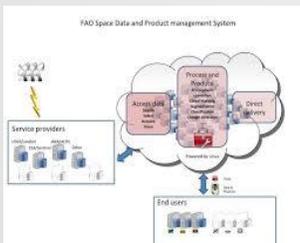
Some of them in research stage, some of them are more operational



Data cube facilitates large scale mapping

Initially developed by CSRIO in Australia

Adopted and adapted by NASA CEOS



SEPAL developed by FAO to facilitate the use of open source tools from processing to reporting

BEEODA, conjunto de herramientas de acceso desarrolladas por la Universidad de Boston

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REMOTE SENSING

Regional GFOI Workshops

- 14 in Latin-America

<https://sites.google.com/site/talleresgeofct/>

- 5 in SE Asia

<https://sites.google.com/site/gfoiseasiacapacitybuilding/>

- 2 in Central Africa

<https://sites.google.com/site/gfoiafricacapacitybuilding/home/first-gfoi-forest-monitoring-workshop>

Objectives

- Showcase operational methodologies for different aspects of forest monitoring
- Provide and space for discuss new cutting edge research methodologies
- Provide an space for testing and demonstration of field methods using new technologies



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HOW SILVACARBON BENEFIT FROM ENGAGEMENT WITH GFOI

- Open collaboration with others not only US. In the case of SE Asia and Africa, these synergies are key
- Avoid duplication among partners in same developing countries and create a greater impact
- Access to R&D community, use of collective training materials (REDD+ Compass), and access to data providers.
- A bigger umbrella to operate
- Collaboration with other programs under GEO

LOOKING FORWARD

FY17-19 strategy

- Geographic priorities
 - Increase bilateral engagement
 - Enhance synergies with existing multilateral programs (ie, ISFL, FCPF, REDD Early Movers)
- Key technical support areas
 - Support Nationally Determined Contributions (NDCs)
 - Development of baselines for REDD+ reference levels and NDCs
 - Expanding beyond forests/REDD+ to the landscape scale
 - Integration of subnational activities with national strategies
 - Focusing on transparency



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More information available at
www.SilvaCarbon.org

