















SilvaCarbon

Building Capacity Worldwide in Measuring, Monitoring, & Managing Forest and Terrestrial Carbon

Program Overview

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Slides courtesy Moses Jackson, USFS

OVERVIEW



- 1. What is SilvaCarbon?
- 2. Who is involved in SilvaCarbon?
- 3. Where does SilvaCarbon work?
- 4. What does SilvaCarbon do?
- 5. Examples from the Andean Amazon
- 6. Current Work

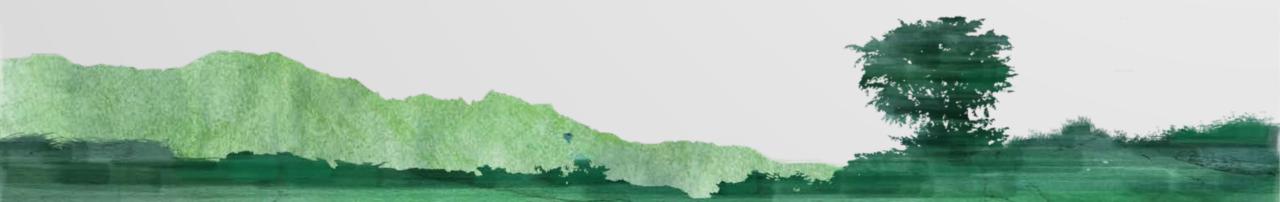
7. Follow-up info

WHAT IS SILVACARBON?

A technical cooperation program of the US Government to build capacity worldwide in measuring, monitoring, and managing forest and landscape changes, including changes in forest and terrestrial carbon.

Key characteristics:

- Interagency: provides integrated support from multiple US agencies and partners
- Needs-based: fills technical capacity gaps, serves as a flexible science delivery tool
- Collaborative: facilitates cooperation at national, regional, and international scales



WHAT IS SILVACARBON?

Overarching Goal Activities Partner countries generate and effectively RESULTS CHAIN use **improved information** related to forest and terrestrial carbon, contributing to low-Outputs emission development and climate change mitigation Outcomes **Impact**





Primary Funders

Primary Implementers



U.S. GovernmentTechnical Agencies

Country Partners

Global Forest Observations Initiative

Other Partners

Country Partners

- Forestry departments
- Mapping authorities
- Space data agencies
- REDD+ Units
- NGOs
- National Universities





U.S. Government Technical Agencies

Country Partners

Global Forest Observations Initiative

Other Partners

Global Forest Observations Initiative (GF®|)

- International consortium focused on increasing the use and availability of remote sensing data and tools for national forest monitoring
- SilvaCarbon is the primary US contribution to GFOI, with USGS and USAID as lead representatives
- SilvaCarbon co-leads the GFOI Capacity-Building component with FAO





U.S. Government Technical Agencies

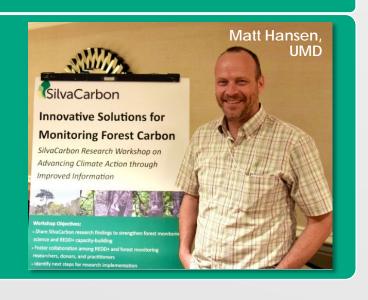
Country Partners

Global Forest Observations Initiative

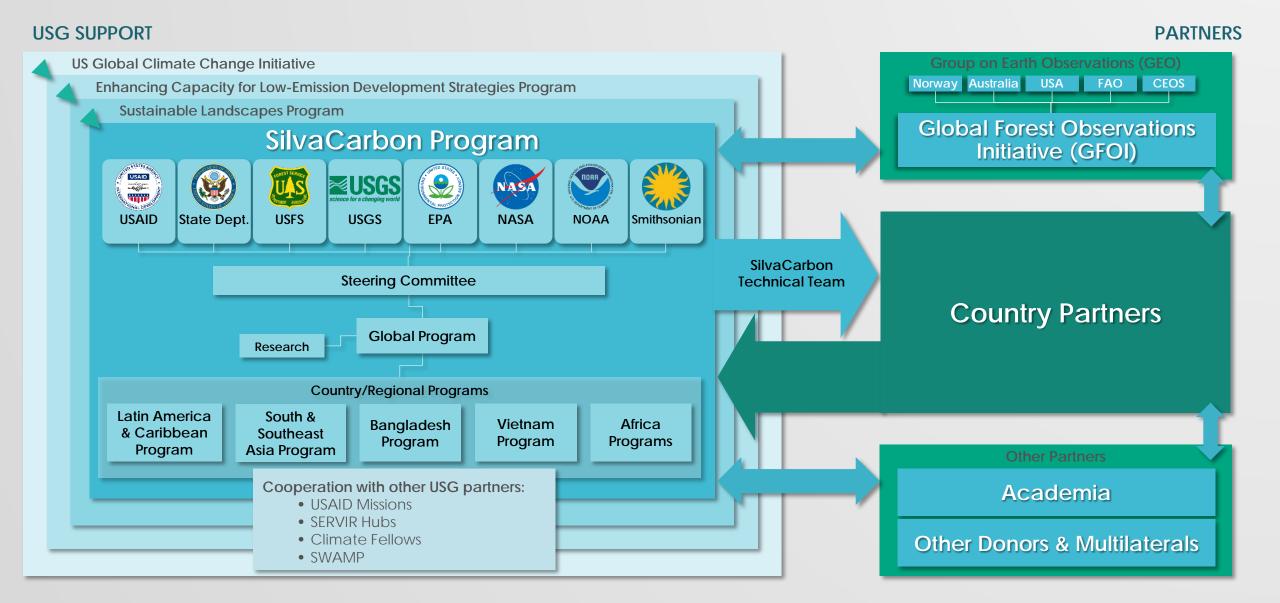
Other Partners

Other Partners

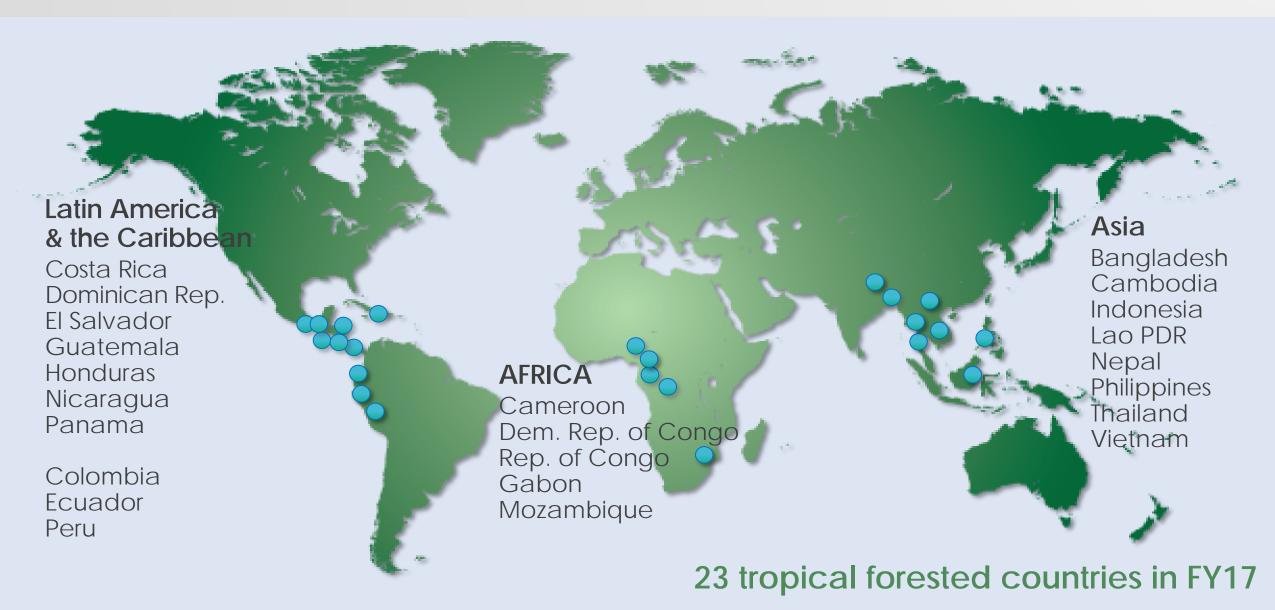
- Academia
 - University of Maryland, Boston University, Wageningen, etc.
- Other donors and multilaterals
 - FAO, UN-REDD, World Bank, GIZ, etc.
- NGOs
- Companies







WHERE DOES SILVACARBON WORK?



WHERE DOES SILVACARBON WORK?

Mixture of regional, bilateral, and global-level programming, depending on needs and opportunities



- Africa Programs mainly bilateral
- Asia Regional Program mainly regional, some bilateral
- Bangladesh Program bilateral
- Vietnam Program bilateral
- Latin America Program regional + bilateral
- Global Program global-level activities, coordination



WHAT DOES SILVACARBON DO?

- Provides US technical expertise to assist countries to develop national forest monitoring systems (NFMS) that are robust, cost-effective, and tailored to their needs
- NFMS produce vital information on forest change, including forest carbon change, essential for:

1 Improving decision-making in the land sector

→ Participating in REDD+

1 Fulfilling emissions reductions commitments



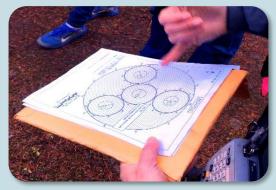




WHAT DOES SILVACARBON DO?

Capacity-Building Focal Areas







Remote Sensing

 Analysis and acquisition of spatial data on landscape change

Forest Inventory

 Design and implementation of ground-based forest surveys

INTEGRATION

GHG Inventory

 Estimation and reporting of GHG emissions from the land sector



WHAT DOES SILVACARBON DO?

Capacity-Building Activities





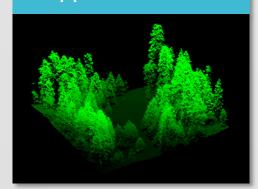
South-South Exchange



Workshops



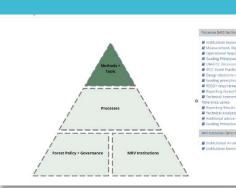
Applied Research



Study Tours



Tools & Guidance





SILVACARBON IN THE ANDEAN AMAZON

ILLUSTRATIVE EXAMPLES



Colombia, Ecuador, and Peru are each developing national **Measurement, Reporting, and Verification (MRV)** systems for REDD+

- They have different capacities but face similar challenges and can leverage similar technical tools and techniques
- SilvaCarbon works with all 3 countries to build MRV capacity through bilateral, regional, and global technical cooperation
- Programming is coordinated by a USFS technical advisor based in Lima









SILVACARBON IN THE ANDEAN AMAZON

ILLUSTRATIVE EXAMPLES

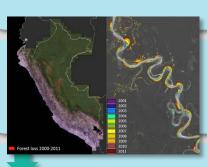


Regional Interaction

USGS organizes GFOI workshop to showcase forest monitoring tools & approaches, identify country needs, and build the regional community of experts

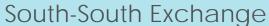
Bilateral Collaboration

Based on Colombia's identified needs, USFS organizes two-month technical detail by a forest inventory expert to assist with the redesign of the NFI



Partner Support

USGS supports UMD to work with the three countries to implement UMD's forest mapping methodology and provide related tools and training



Through SilvaCarbon, Peru and Ecuador collaborate with Colombia on its NFI redesign, and Colombia shares its mapping protocols with Ecuador and Peru



Global Engagement

USFS and USGS organize an international forum to share new SilvaCarbon research findings with the global SilvaCarbon community, including country practitioners





SILVACARBON IN THE ANDEAN AMAZON

ILLUSTRATIVE EXAMPLES

Results achieved with SilvaCarbon technical support:



Peru finalized its first large-scale forest-change map series, and is completing the first phase of its national forest inventory



Ecuador completed its first national forest inventory and now is working on its second cycle. It also completed its first forest-change map for an area typically covered by clouds



Colombia is able to generate estimates of forest cover change annually for the first time, and is implementing a national forest inventory



CURRENT WORK

- Strategic priorities from FY17 include:
 - Fostering transparency in forest/terrestrial carbon data
 - Strengthening national monitoring systems to address multiple objectives and respond to evolving country needs
 - Assisting countries to meet their national and international commitments
 - Increasing collaboration with and through GFOI





CURRENT WORK

FY17 Work Plan Activities, by Country/Region and Outcome

	OUTCOME 1 Enhanced capacity to measure/ monitor/report landscape carbon	OUTCOME 2 Enhanced use of data in decision & policy making	OUTCOME 3 Strengthened cooperation & agreement	TOTAL # of activities
Asia Regional	7	2	4	13
Vietnam	10	1	3	14
Bangladesh*	-	-	-	19
Cameroon	7	-	1	8
ROC	2	-	1	3
DRC	2	-	1	3
Gabon	2	-	-	2
Mozambique	1	-	1	2
Central America	4	-	2	6
Andean Amazon	2	-	4	6
Global Program	9	-	12	21
* The Bangladesh Program contributes to separate, complementary Outcomes developed in collaboration with USAID/Bangladesh and FAO				97



FUTURE WORK/INFO

- Continue to work in program areas but moving to more advanced methods where applicable and with partner interest (e.g. AFOLU GHG estimation frameworks – Colombia {IDEAM}, time-series analysis)
- Support for NDC achievement (e.g. policy effects on emissions, restoration)
- Current funding levels into FY18...

















FOLLOW-UP INFO

- SilvaCarbon Spotlight e-newsletter: http://goo.gl/sSGDFL
- SilvaCarbon website: www.silvacarbon.org (under development)
- USFS Global Program contacts:
 - Alex Moad, <u>amoad@fs.fed.us</u>
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 - Moses Jackson, <u>mosesmjackson@fs.fed.us</u>
- Other Global Program contacts:
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 - NASA-SERVIR: Africa Flores, <u>africaixmucane.florescordova@nasa.gov</u>
 - EPA: Mausami Desai, desai.mausami@epa.gov

