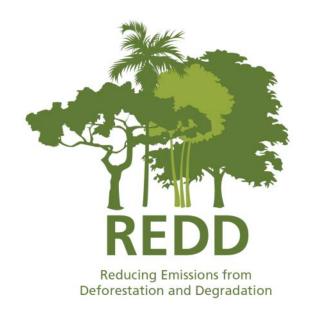
The Cameroon Pilot Project COP Side Event, Cancun 2nd December 2010







Carbon Emission Accounting: Achievements of South-South Cooperation

Joerg Seifert-Granzin, Natalia Calderón, Jaime Quispe, Graciela Tejada, Sandro Añez (FAN-Bolivia)

Consortium led by:



Project supported by:







Project Part of



Pre-cursor for Carbon Accounting



- Sub-national approach implemented in Bolivia was model for Cameroon case.
- Method compliant with IPCC 2006 for managed forest areas.
- Noel Kempff Climate Action Project:

1,034,107 tCO2 of avoided emissions from DD during 1997 – 2005; certified using CDM criteria;

Methodologies comprehensively documented:

http://www.fan-

bo.org:9090/unidades/es/serviciosambientales/inicio/proyectos/redd/pilares

Estimating Emission Factors / Damage Factors



All biomass pools measured:

- Aboveground
- Litter
- Deadwood
- Below ground
- Soil

Damage Factor estimation

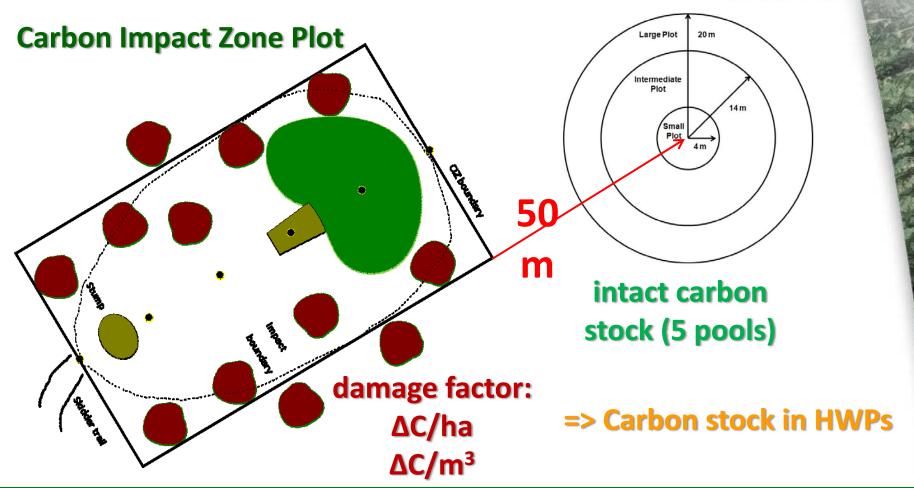
 Comparison of collateral damages in two different forest management systems: certified & uncertified FMUs

Permanent Plot Design



Developed by Winrock International, modified by FAN

Paired Plot



CIZ Plot - Parameters Measured



CIZ Plot

- Biomass of Extracted Timber
- Damaged biomass
 - All damaged trees > 10 cm dbh (standing or lying)
 - Note: no pre-existing dead trees only trees recently felled
 - 3 damage classes
 - 1 = bent or leaning
 - 2 = snapped stems and without crown of the tree
 - -3 = uprooted

Carbon Impact Zone Plot







Measuring the direction of felled tree

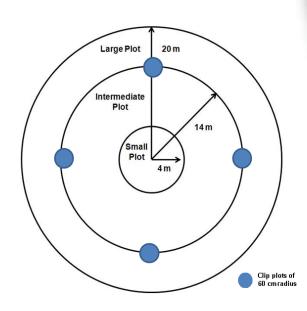
Installing a CIZ Plot

Circular Plot - Parameters Measured



Circular Plot

- DBH Live trees and dead trees (Standing & lying)
 - Small plot: 5-19.9cm
 - Intermediate plot: 20 49.9cm
 - Large plot: >50cm
- Forest understorey litter
- Soil
- Lianas



Circular Plot





Litter, soil & herbaceous vegetation sampling on clip plot



Measuring deadwood

Impact of logging roads & skid trails

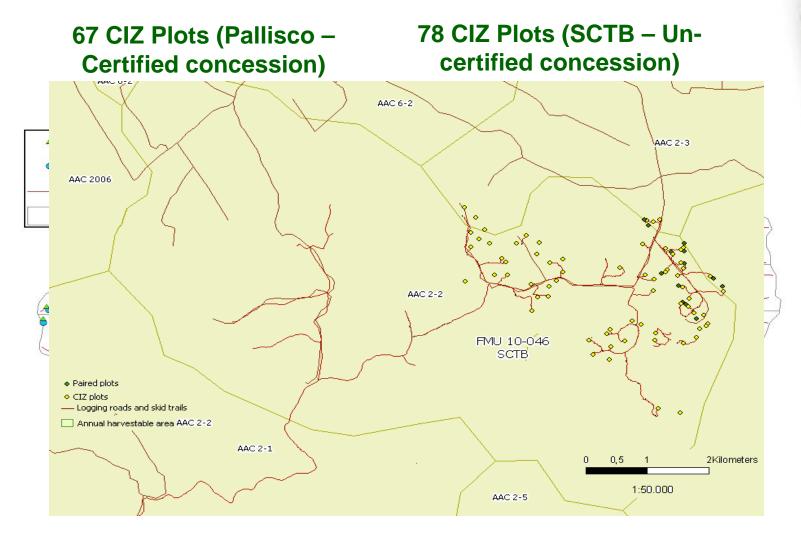






Results





Results



Estimated Carbon Stocks (intact forests)

Stratum	[ha] Area in Pallisco	Number plots	dead dead wood Ground bioma						Total biomass with soil	
Closed evergreen lowland forest	4700	67	211.42		12.51	42.28	2.64	2.55	41.04	1

Logging Impacts

Parameter	Mean in	95 % CI in	Mean in	95 % CI in
	Pallisco	Pallisco	SCTB	SCTB
Mean t C damaged /m3 extracted	1.34		1.99	
DBH (cm)	112.08	±6.5	105.45	±6.21
Commercial log length (m)	19.08	±1.27	19.81	±1.30
Volume/tree (m³)	16.06	±2.42	14.88	±1.96
Extracted biomass carbon (tC)	11.97	±1.58	10.48	±1.99
Damaged biomass carbon (tC)	15.19	±2.71	17.82	±3.68
Extracted timber as % of total tree	67.43	±3.46	72.67	±5.67

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Capacity Building



- Specific capacity building activities ensure that project results, methodologies and lessons learned are transferred to local counterparts
- South-south co-operation facilitates this process

Technology Transfer and Capacity Building





- Target groups
 - MINEP & MINFOF Technical staffs
 - Academic institutions/ NGOs
- Technology Transfer between:
 - Bolivia and Cameroon, South-South Coloperation: Emmission accounting
 - European Partners and Cameroon: EO for deforestation mapping
- Capacity Building via Workshops and on-the-job-training
 - Biomass accounting workshop
 - Biomass inventory field training
 - Remote Sensing workshop
 - GIS training workshop
 - Field surveys