





The role of the cocoa sector in the REDD + process:

The current IITA experience in Cameroon

Denis J. Sonwa^{1&2}, Rachid Hanna¹, Nathalie Ewane¹, Francis Silatsa¹, Adolph Kemga¹

International Institute of Tropical Agriculture (IITA);
 (2)Center for International Forestry Research (CIFOR);

Session 5 : nterface agriculture et forêts / sécurité alimentaire – Strem Climat, Congo Basin Forest Partneship (CBFP) meeting of Parties, Kigali (Rwanda), 21 to 26 November 2016



A member of CGIAR consortium

www.iita.org



Plan

→ Expectation from cocoa farms

➔ Piloting REDD+ activities

Understanding cocoa environment to improve REDD+

➔ Conclusion and way forward

Expectation from cocoa farms



Progress on the New York Declaration on Forests Eliminating Deforestation from the Production of Agricultural Commodities

Goal 2 Assessment Report

November 2016

forestdeclaration.org

What implications for

сосоа

In the REDD+ agenda?

Expectation from cocoa farms



West Africa had been deforested with the contribution of cocoa expansion

The earth of the continent is still green (Ex. DRC), but may be the next frontier of agro - industries extension after west Africa

➔ What can we learn from Cameroon experience?

Walker et al. 2008, Congo Basin State of the Forest, 2006

Expectation from cocoa farms

Sustainable cocoa production

Diverse livelihood products (plants associated with cocoa) Ecological services
 (Formerly provide by Forest)

*Biodiversity conservation (inside cocoa and the cocoa/forest landscapes)

*Carbon storage

*Zero deforestation

CBD & UNFCCC



Current Cocoa value chain project locations

Southwest region: Konye, Muyuka (KONAFCOOP, MAUCOOP) +3 in 2017

Center region: Ayos and Ngomedzap (COCOA+AYOS, SOCOPROCAON)





→ Working at the plot level

- Characterization of the cocoa production systems baseline analysis
- Farmer training on good cocoa production and intensification (Farmer Field Schools).
- Promotion of mass plant multiplication of cocoa and associated crops and trees through establishment and maintenance of seed gardens, communitybased plant multiplication centers,
- > Rehabilitation and regeneration (replanting, grafting, and diversification).
- Succession planning and youth engagement in cocoa farming.



Integration of seed gardens with centers of plant multiplication (CPM)





Baseline assessment – Field verification

Total of 120 fields (30 in each site) were visited: (part of MRV activities)

- Information obtained through the field interviews and visits
 - Field characteristics (size, age, previous land use, source of planting materials, other trees, etc.)
 - Yield and input types (fertilizer, pesticides, herbicides)
 - Labour input (by age, hired/own, gender)
 - Direct assessment of pests and diseases
 - Soil characteristics (texture, pH, carbon and essential nutrients)
 - Shade and carbon stock (in wood, litter, soil, and roots).
 - Diversification, other crops,









Farmer Field Schools Diffusion of good agricultural practices

- Training of trainers (40; 10 in each locality).
- Target: 12000 producers
- ➢ FFS et FLG :
 - Integrated crop protection, good agricultural practices (harvesting and phytosanitation);
 - Occupational health and safety
 - Regeneration of cocoa plantation: planting, replanting and diversification.







Farmer Field School

Establishment of demonstration plots

•40 plots (10 in Konye, 10 in Muyuka, 10 in Ngomedzap & 10 in Ayos)



Innovative diversification with plantains, cassava, and trees (fruit and timber trees)

A member of CGIAR consortium



Plant multiplication

Centers for Plant Mulitplications (CPM)

- 12 centers of the multiplication of plantains, cococ fruit trees, leguminous trees and forest trees.
- Konye, Muyuka, Ayos and Ngomedzap
- > Already operational
- Yearly production of ~40,000 cocoa seedlings,
 24,000 plantains plantlets, and 8,000 fruit trees.
- Land provided by cooperatives
- Two young attendants per center; one superviser prégion
- Integrate women and youth
- Revenue generating activity
- Business plan under development.









➔ Additional cocoa research to support the future REDD+

- Mirid management (pheromone technology, biopesticide development, delivery system)
- Cocoa pollinators diversity and conservation.
- Impact of climate change on cocoa production and development and promotion of climate change adaptation and resilience practices.
- Soil fertility enhancement and impact on productivity through inorganic soil amendments.
- Succession planning and youth engagement in cocoa farming.
- Cocoa value chain analysis



Understanding cocoa environment to improve REDD+

Climate smart cocoa production *Resilience and climate change adaptation*

- > 27 plots
- 9 in each of three locations across climate gradient with different levels shading
- Quantifying shades through tree/canopy measurements, fisheye method, and drones
- Soil fertility enahancement (NPK, Mg, Ca)
- Soil water and plant water relations.
- Data collected on phenology, pest/disease/yield/quality
- Rainfall, relative humidity, temperature; soil and plant water status







Understanding cocoa environment to improve REDD+

Value chain analysis



Source: Maria Geitzenauer

A member of CGIAR consortium



- Cocoa dynamic can play an important role in enabling or reversing forest degradation and deforestation
- Cocoa value chain is an entry points for REDD+ activities in Cameroon
- Pledges by private sector constitute an opportunities to use cocoa for REDD+ activities in Cameroon and others countries of West and Central Africa
- Research institutions had an important role to generate knowledge for REDD+, but also to pilot some REDD+ activities and contribute to early lessons learning process







Implemented

JIZ Deutsche Gesellisstaff für Internationale Zusammenarbeit (GIZ) GmbH

In partnership with





Thank you

@SonwaDenis

d.sonwa@cigar.org

Twitter:





A member of CGIAR consortium

www.iita.org