



Adaptation and Mitigation of climate change

The concept of Zero deforestation cocoa agroforestry Case of Cameroon

MOFACK Gislain II

mgislain15@gmail.com

University of Yaounde 1, Cameroon



REDD+ and best practices integrating forests and tree-based mitigation and adaptation in response to climate change in Africa, webinar, 21 November – 2 December 2022





PLAN



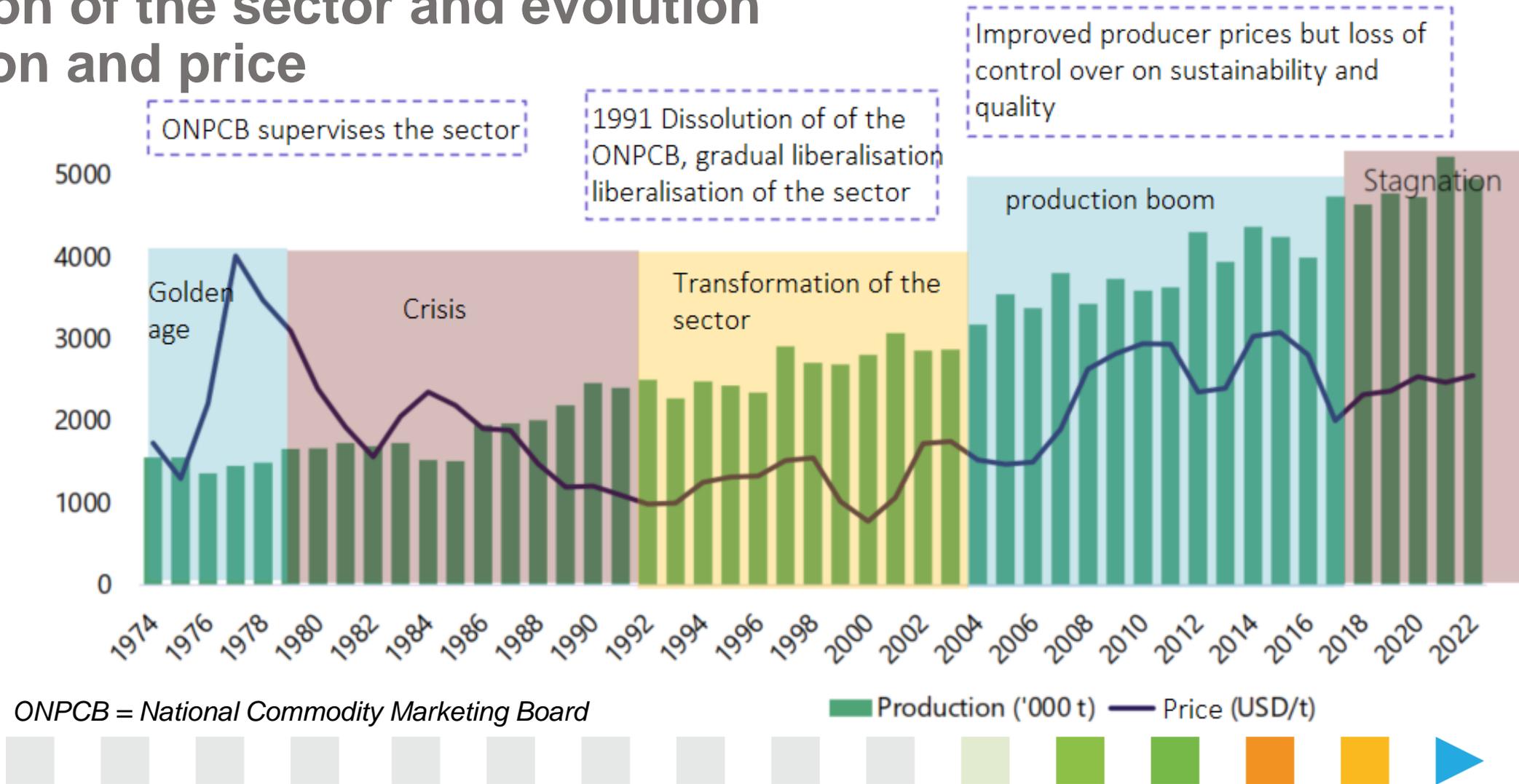
1. What is the “zero deforestation” concept in cocoa farming+ Project? What are the links with REDD+?
2. What is the interest for UE?
3. What is the roadmap to zero deforestation cocoa?
4. How does this concept contribute to climate change mitigation? A case study from Center Cameroon
5. What are the challenges for the countries involved in this process?





What is the “zero deforestation” concept in cocoa farming+ Project? What are the links with REDD+?

Liberalisation of the sector and evolution of production and price





What is the “zero deforestation” concept in cocoa farming+ Project? What are the links with REDD+?

Cocoa exports from Cameroon to the EU as % of total exported tonnage

(Source: UN Comtrade, données destination, 2022)

99%
UE 2000



65% vs. 30%
2020 Asia



- Other
- North America
- Asia
- UE + UK





What is the “zero deforestation” concept in cocoa farming+ Project? What are the links with REDD+?

Three risks associated with the sector



Deforestation

Cameroon lost 11% of its forest cover between 1990 and 2020, in 2020 forests will still cover 40% of the territory



Producers' income

In 2007, 69% of cocoa farmers were living below the poverty line



Child labour

About 40% of children between 6 and 14 years old are involved





What is the interest for UE?

Three major issues associated with the sustainability of cocoa



Deforestation

EU wants to increase cocoa consumption without deforestation



Producers' income

EU wants to help producers get a decent income



Child labour

EU no longer wants to consume products linked to child labour





What is the roadmap to zero deforestation cocoa

□ A voluntary initiative supported by IDH The Sustainable Trade Initiative

- Signed roadmap,
- Technical and financial commitment,
- programme implementation,
- sustainable cocoa production and marketing,
- forest conservation and rehabilitation,
- community inclusion,
- ambitious targets with clear deadlines.



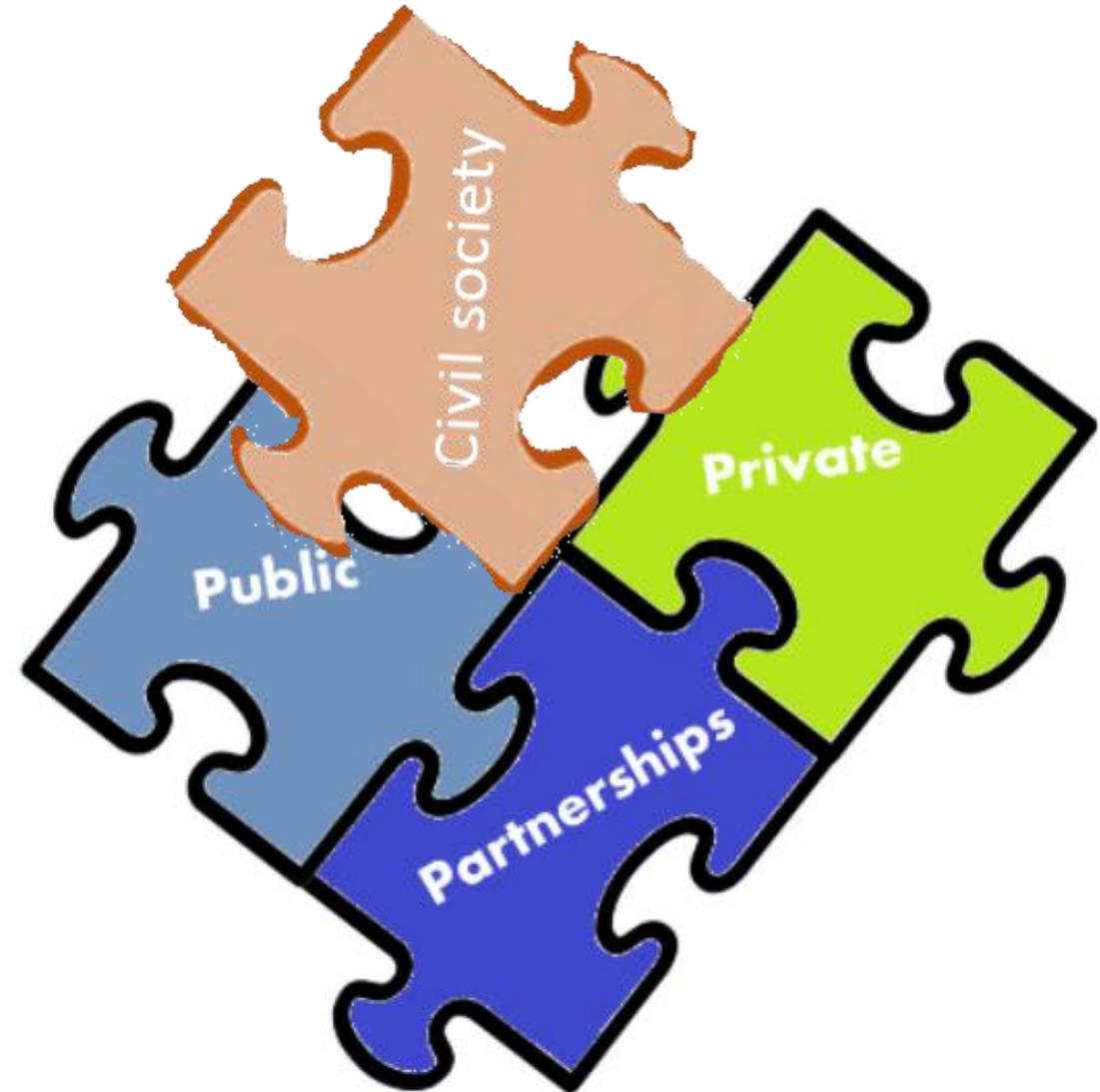


What is the roadmap to zero deforestation cocoa

□ Space for dialogue for the cocoa sector

- public, private and civil society partnership,
- Signatories: institutions, producer organisations, private sector, civil society, research institutes.

EU is not a signatory but there are ongoing discussions





What is the roadmap to zero deforestation cocoa

□ Commitments on traceability and monitoring of forests

- Ensuring 100% traceability of the supply of cocoa,
- Total elimination of supply from the permanent forest estate.



COCOA PRODUCING COUNTRY

CHOCOLATE PRODUCING COUNTRY





How does this concept contribute to climate change mitigation? A case study from Cameroon

Implementation of zero deforestation in cocoa production

Objective : capacity building for the development and implementation of the greenhouse gas emission reduction scenario

The aim : contribute to the implementation of the National REDD+ Strategy (NRS) and to the respect of the commitments included in the country's Nationally Determined Contribution (NDC)



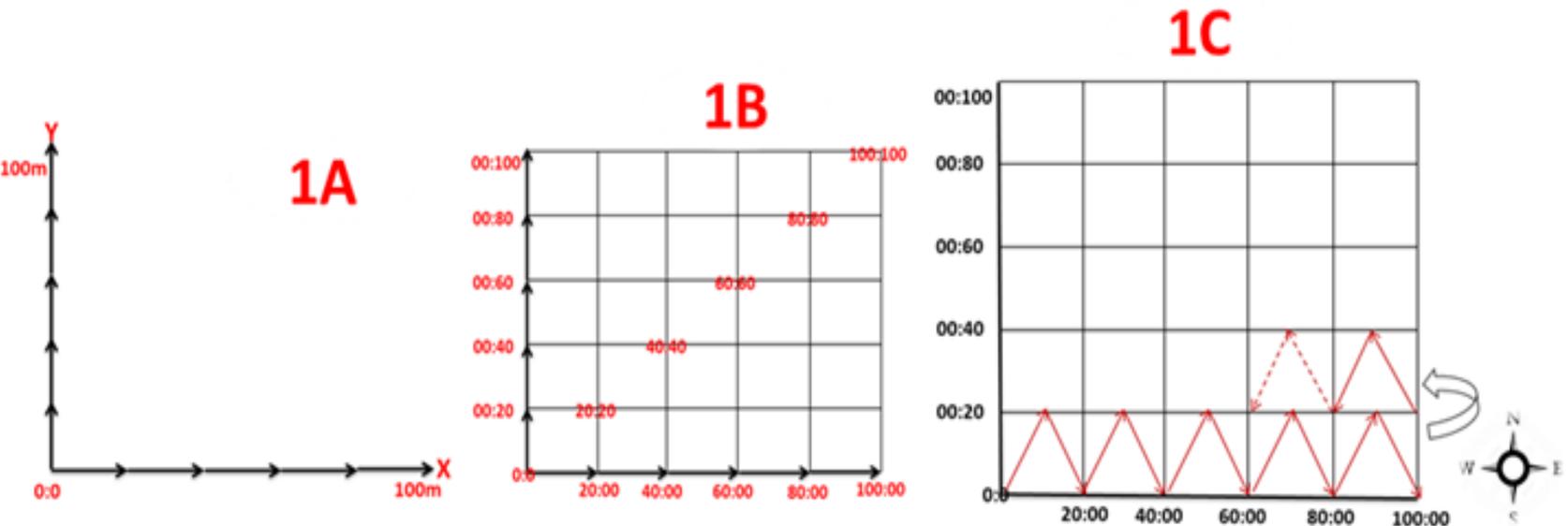


How does this concept contribute to climate change mitigation? A case study from Cameroon

Methodology approach

Delimitation of the 1ha plot

Drawing the first baselines (1A), quadrats (1B), direction of travel (1C)



Capacity building





How does this concept contribute to climate change mitigation? A case study from Cameroon

Methodology approach

Measurement of dendrometric parameters for the estimation of the above-ground biomass

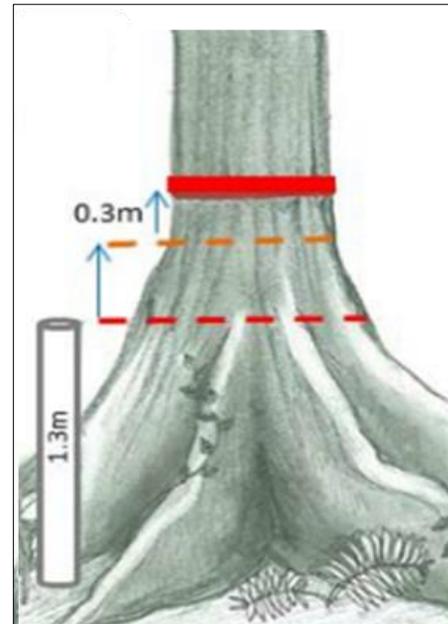
Height



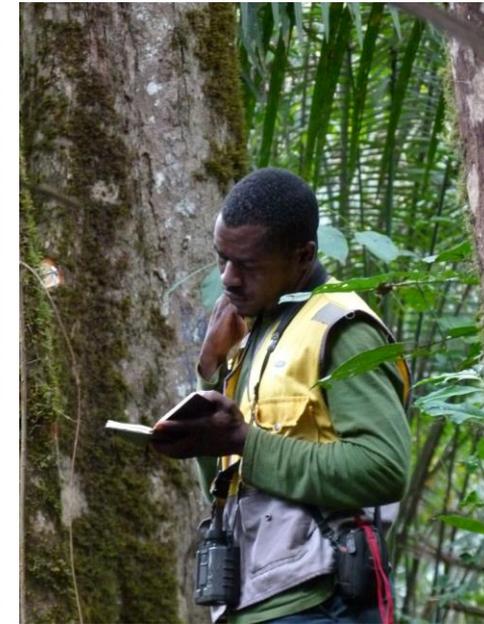
Botanic



DBH



Encoding





How does this concept contribute to climate change mitigation? A case study from Cameroon

Methodology approach

Collection of soil and litter data for the calculation of biomass in other carbon pools

Dead wood



Herbaceous plants and individuals less than 10cm in diameter



Soil



Litter



Obtaining dry weights





How does this concept contribute to climate change mitigation? A case study from Cameroon

Calculating biomass and carbon stocks

	Equations	Author
AGB	$0.125 \times WGS^{1.079} \times DBH^{2.210} \times H^{0.506}$	Fayolle et al., 2018
BGB	$AGB \times R$	Mokany et al., 2006
C	$(AGB + BGB) \times 0,47$	GIEC 2006

The International Cocoa Organisation (ICCO), as part of its five-year strategic action plan adopted in September 2019, plans to promote Payment for Ecosystem Services (PES) as a tool to increase farmers' incomes and promote good natural resource management in cocoa producing countries.





How does this concept contribute to climate change mitigation? A case study from Cameroon

Supporting communities with agricultural materials and seeds adapted to the region's climate





What are the challenges for the countries involved in this process?

- Harmonisation of concepts with regard to the EU regulatory framework,
- Reconciling economic growth and deforestation,
- How to improve the price at the KG,
- Reforming tree ownership,
- How to tackle corruption?
- How to set up joint monitoring mechanisms?





Thanks

