



inter
cooperation



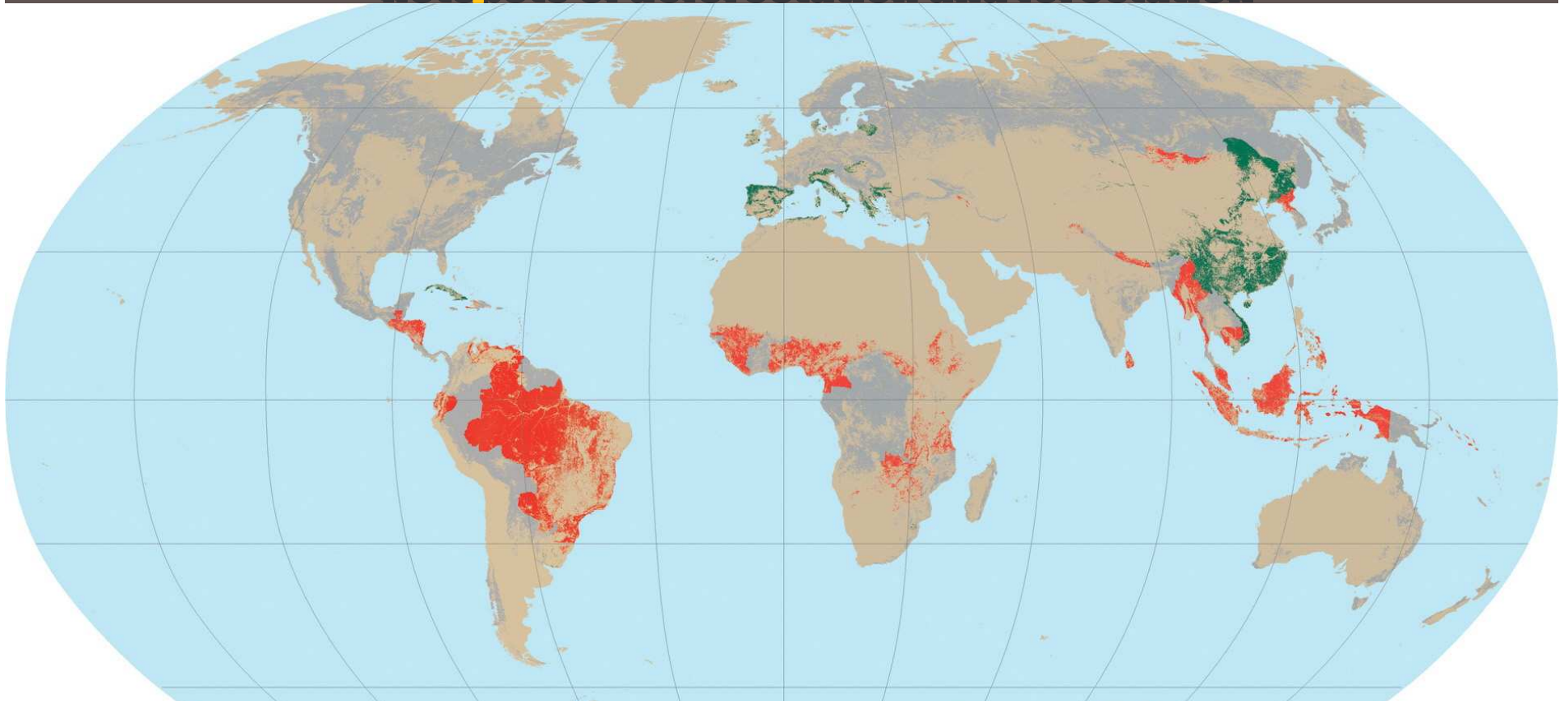
Reduction of GHG Emissions through Avoiding Deforestation and Forest Degradation (REDD): Committing forests as Carbon Reservoir



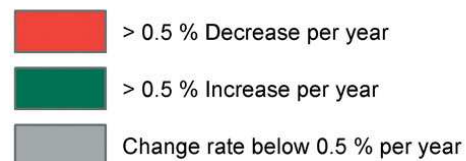
Accra 4 October 2006
Juergen Blaser and Carmenza Robledo
INTERCOOPERATION, Switzerland

I. Context:

Dynamic in forested areas 2000-2005: hotspots of deforestation and forestation



Deforestation in the south, while forests increase in the north.



Source: FAO, 2006

I. Context: the ten countries with the highest absolute and relative deforestation in the world

Country	Deforestation (ha) (average per annum 1990-2005)	Country	Deforestation (% of 1990 forest cover)
Brazil	2,821,900	Burundi*	6.0
Indonesia	1,871,500	Togo*	5.2
Sudan*	589,000	Honduras*	3.9
Myanmar*	466,500	Nigeria	3.7
DR Congo*	461,400	Niger*	3.6
Zambia*	444,800	Philippines	3.2
Tanzania*	412,300	Benin*	2.8
Nigeria	409,700	Uganda*	2.4
Zimbabwe	312,900	Ghana	2.3
Venezuela	287,500	Indonesia	2.1
Other 68 countries	3,257,400		
Total	11,334,900	Average 78 tropical countries	0.65

*LDC countries in the UNFCCC

Source: based on data of the Forest Resource Assessment 2005 - FAO 2006

I. Context:

Deforestation drivers in the tropics

China, SE-Asia:

Agroindustry (Oil palm), Pulp (China)

West Africa:

- ⇒ Shifting cultivation, conflicts, timber extraction

Congo Basin:

- ⇒ Timber extraction, roads, shifting cultivation

Central America:

- ⇒ Shifting cultivation, land speculation

Amazonas Basin:

- ⇒ Land speculation, Agroindustry (Soja, livestock), shifting cultivation, conflicts, planned and unplanned colonisation



I. Context:

What is deforestation ?

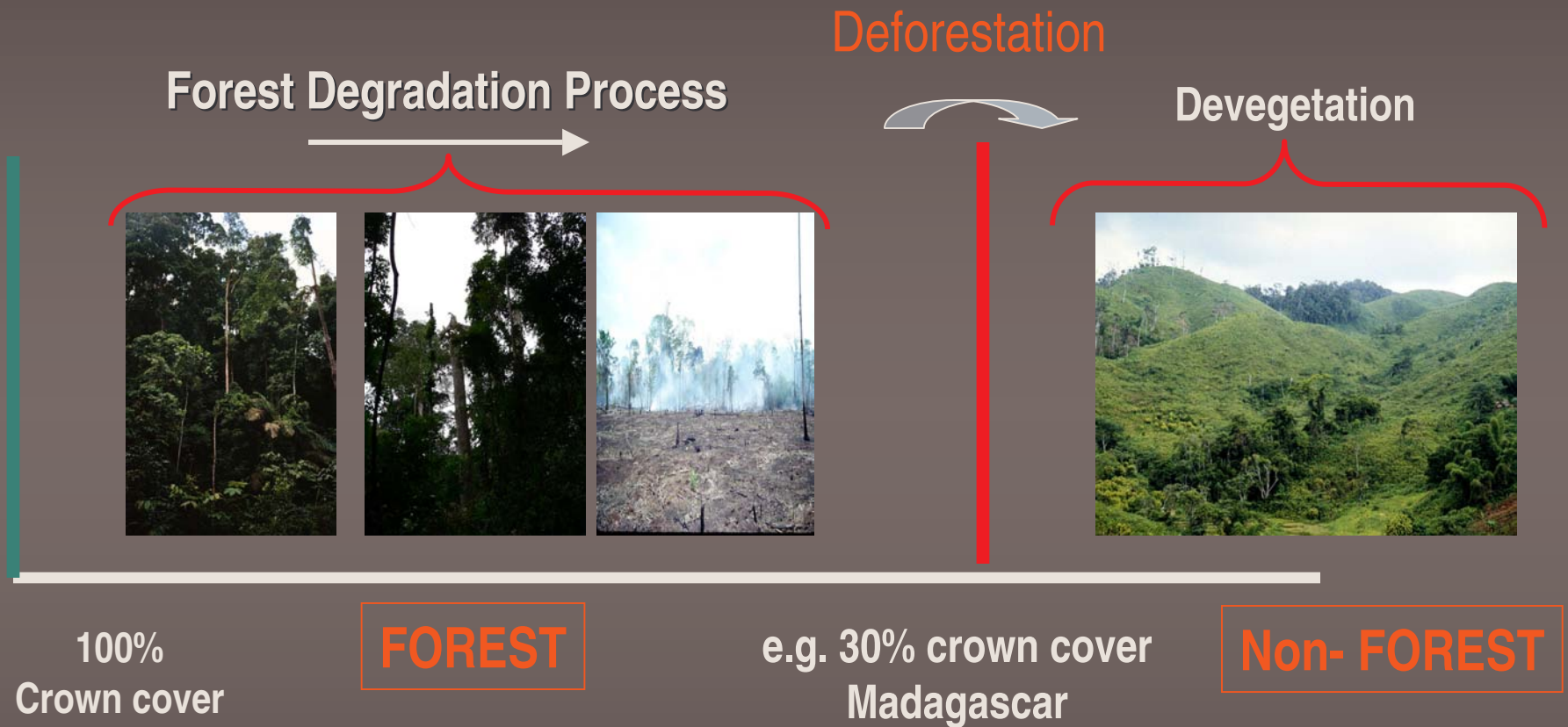
- Deforestation is defined as the removal of tree-canopy beyond the limits that are indicated in the definition of forests in each country (Forest Law, DNA)
- Refers to changes in land-cover and land-use
- Investments are mostly in alternative land uses
- Distinct from forest degradation (which is not total removal)

What is forest degradation ?

- Forest degradation is a process in which the initial forest structure, functions, productivity, species diversity and dynamics are noticeably altered beyond the elastic capacity of the ecosystem (not an “official” definition)
- Land-cover and land-use remains “forest”
- Mostly “residue” of prior investments in extractive activities

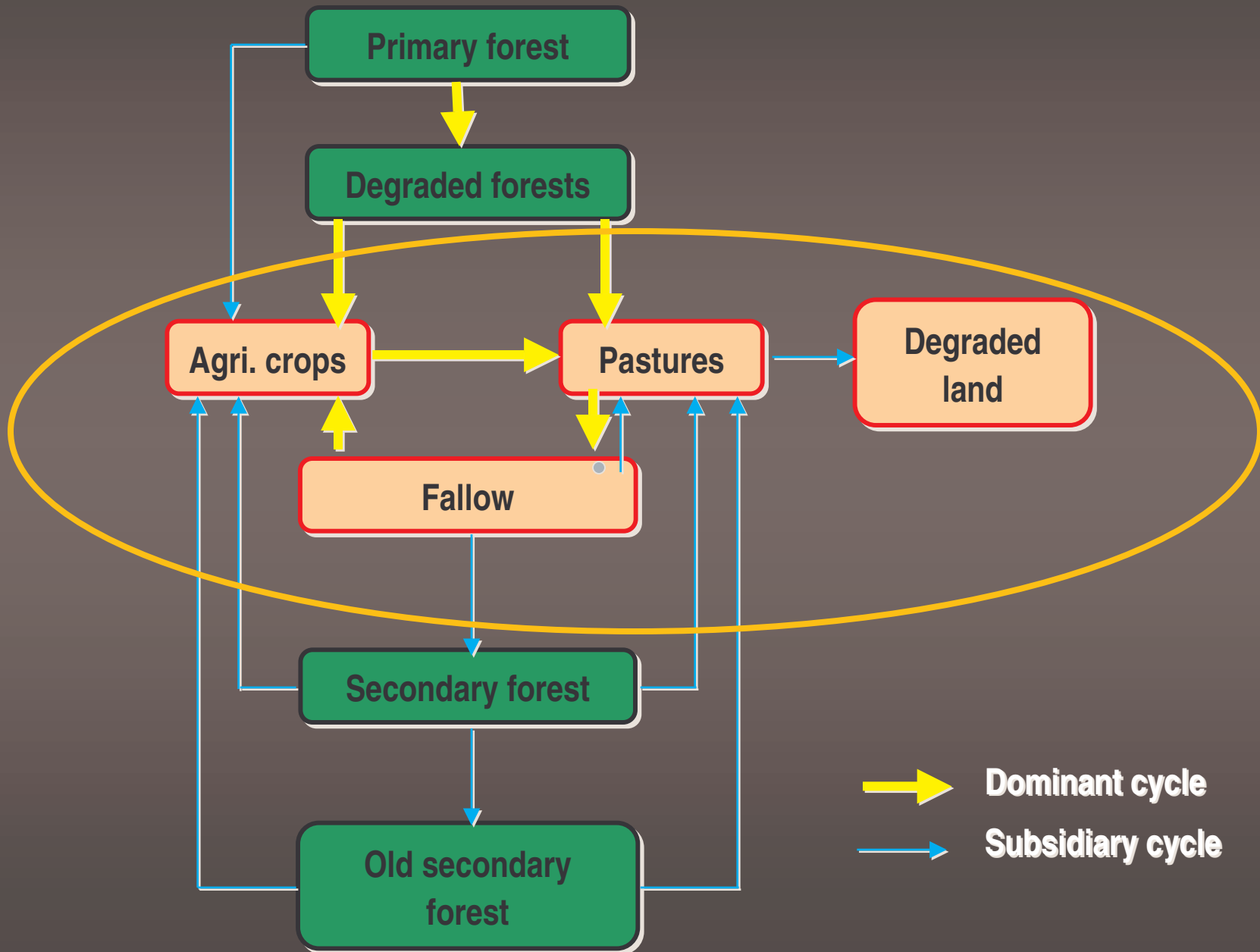
I. Context: What is deforestation ?

UNFCCC context



Where do we emit the most GHG?

I. Context: Deforestation patterns



I. Context: Common rational

- ⇒ Deforestation normally benefits landholders and sometimes the national economy because there are generally higher returns from alternative uses than from forests
 - ⇒ Both, rich and poor deforest:
 - Some poor deforest incrementally to “survive”
 - ...but many poor deforest to increase their living standards
 - Some large-scale deforestation destroys livelihoods... but much deforestation creates more jobs
 - ⇒ Deforestation is in many cases rational for the landholder – but also benefits national economy
 - ⇒ The (private and social) returns per-hectare are highly variable – e.g. Amazon soy vs. cattle vs subsistence agriculture: potential for REDD very different
 - ⇒ Often joint causality: e.g. logging + road building + small-scale agriculture
- Deforestation is often rational, not all deforestation is undesirable.

I. Context:

Deforestation – what kind of emission ?

- Land use change makes about between 15 and 25% of all anthropogenic GHG emissions in the 1990's (IPCC)
- Natural tropical forests: Huge differences in emissions (deforestation, forest degradation, fire) , depending on natural conditions, uses and land policy scenarios
- At present there are no real financial incentives available for developing countries to reduce deforestation
- Forest degradation – a source of GHG emission that is yet not fully assessed

→ Deforestation nullifies the major part of the emission reductions that is aimed to achieving through the Kyoto protocol

II. Lessons learnt: Main Drivers are outside the forest sector

- ⇒ Deforestation is a complex process that evolves over time
- ⇒ Avoidance of deforestation cannot be solved by the forests sector alone
- ⇒ A certain degree of deforestation is unavoidable
- ⇒ Avoiding deforestation needs adjustments and flexibility



Gestion de terroirs, Morondava, Madagascar © JBlaser

⇒ **REDD needs to closely take into consideration the macro-economic drivers as well as the socio-economic specificities of each country**

II. Lessons learnt: Creation of agricultural land to feed people

Who can be against that?

⇒ Not all deforestation is undesirable:

- Social and economic pressures make it inevitable that substantial areas of what is still natural forest today will be converted to agriculture and other uses

⇒ However, deforestation should be discouraged when:

- it is not efficient from an economic viewpoint;
- it is non-sustainable – in other words, it is a threat to environmental stability; and
- it leads to social inequities and conflicts.



Rizière, Haut Plateaux, Madagascar © JBlaser

**⇒ Make a distinction of in DD,
countries need to decide upon their
priorities**

II Lessons learnt: Avoiding Forest Degradation: often a “non-issue” for the primary beneficiary

Forest degradation and deforestation is often intentional !

- ⇒ “Technical objection”: Type of resource management implemented by “economic operators”
- ⇒ “Political objection”: powerful political and economic groups are the winners when forest are exploited beyond their capacity or is cleared and brought to a more “economic” land use



Concession forestière sur terroirs traditionnelle de Penans en Sarawak, Malaisie.

©JBlaser

II. Lessons learnt: Avoiding Deforestation: not necessary always a socially acceptable solution

Objections and obstacles

- Consensus finding in respect to the objections: under which circumstances will forests remain?
- Reducing deforestation efforts can compete/be contradictory to sustainable livelihood efforts
- Reducing poverty not necessarily reduces emissions



Communauté Kuna Yala, Panama © JBlaser

➔ **Concentration on institutional challenges,
show flexibility to fit local conditions**

III. Major challenges

→ REDD as an instrument to maintain carbon pools and support sustainable development

What forests to commit?

- ⇒ In the absence of existing deforestation strategies
- ⇒ In the absence of appropriate quantification tools (social and economic costs and benefits, actually avoided emissions)
- ⇒ Which actors? What role?



Teak forest, Madhya Pradesh, India © JBlaser

Commit forests in hot spot areas of deforestation and forest degradation:
→ Developing countries in tropical and subtropical climatic zones.



Côte Est Madagascar © courtesy CI

→ **Committed forest approach:**

where and how to conserve carbon reservoirs?

→ **And there in areas where pressure on forests is real,
NOT in those areas that are not under immediate threat (e.g. Parks)**

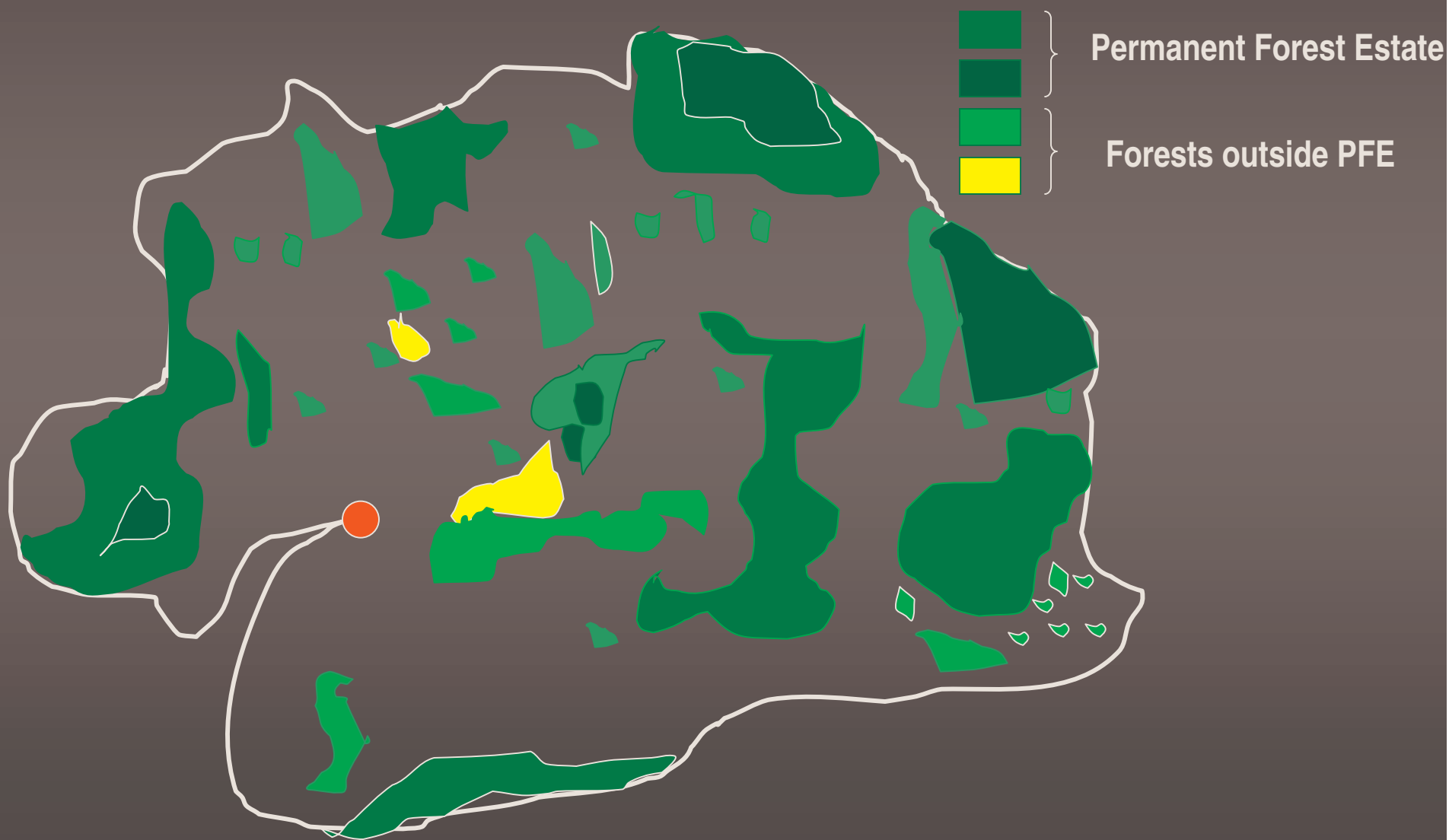
III. Major challenges: Define Committed Forests

The committed forest area is defined by each country (on a voluntary basis) on the basis of agreed selection criteria, e.g.:

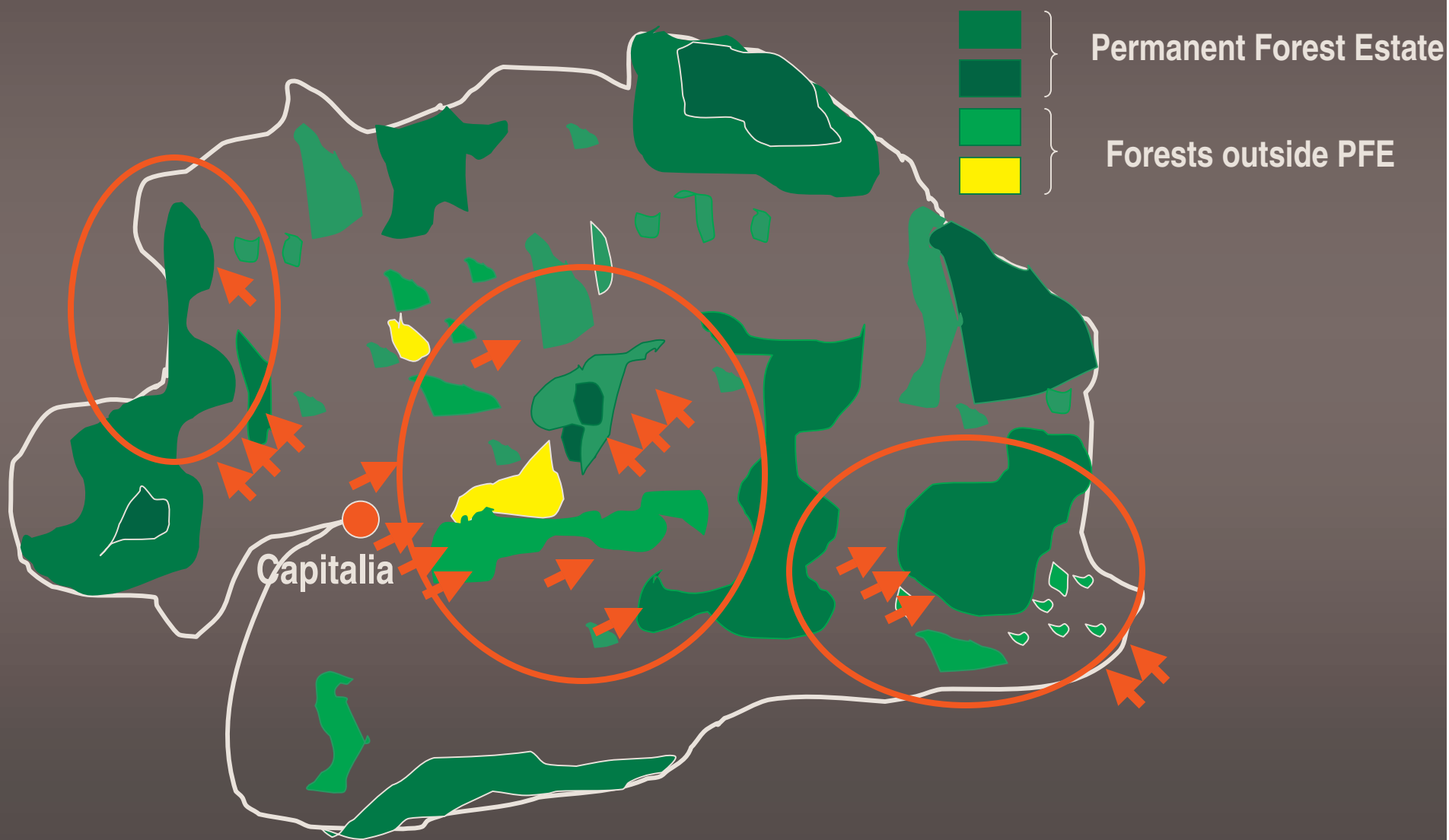
- A sub-set of the permanent forest estate within a defined landscape/watershed/political boundary (= project area)
- Specifically classified as a carbon reservoir that falls in an area threatened by deforestation and forest degradation
- Baseline: the average loss of CO₂e through deforestation and forest degradation over a specified period of time in the project area
- Filed in the UNFCCC.

→ Reductions must be: Real, Additional, Verified, Certified

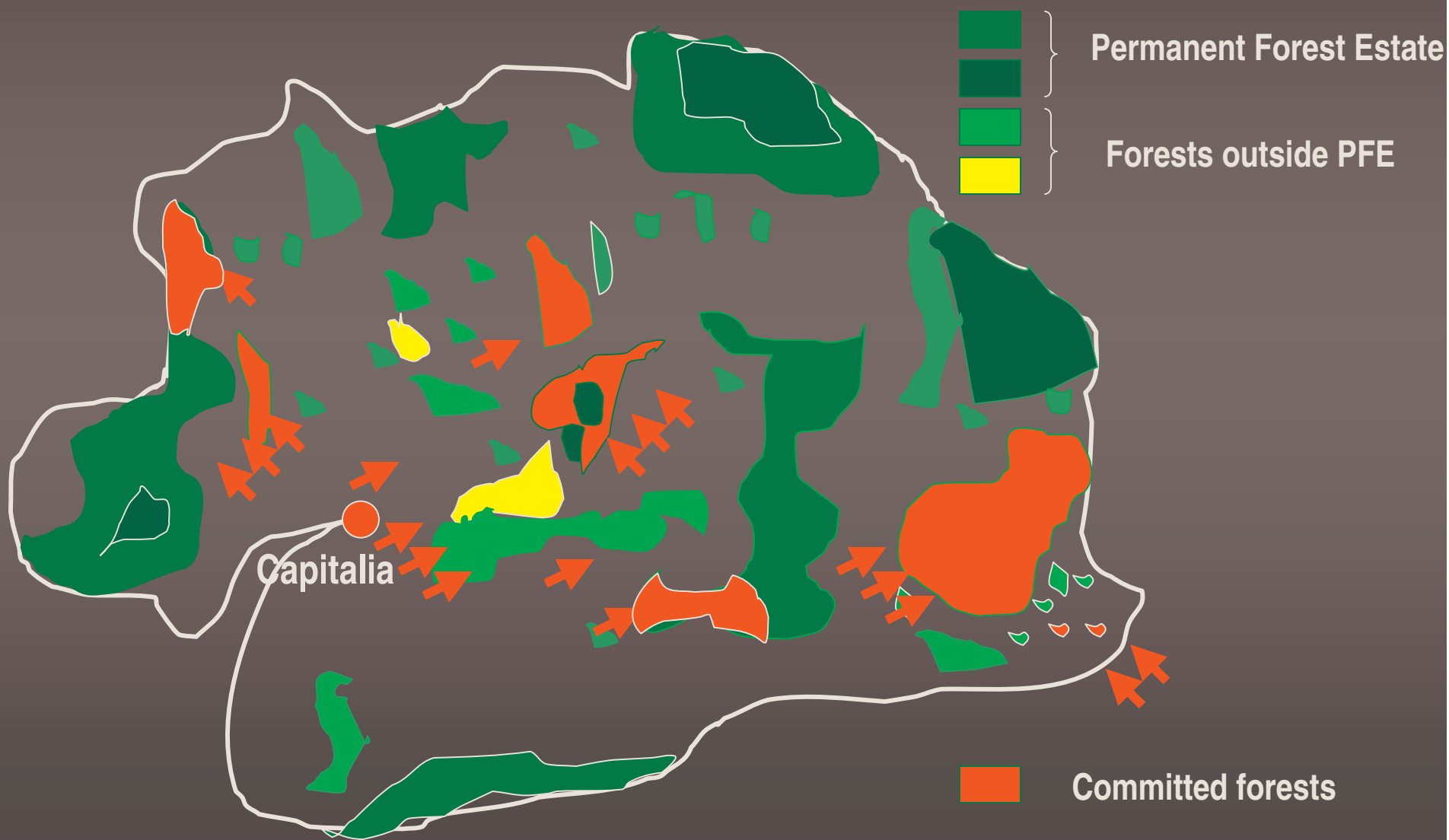
Cuzaland: Forest Area



Cuzaland: Hotspot Deforestation Areas



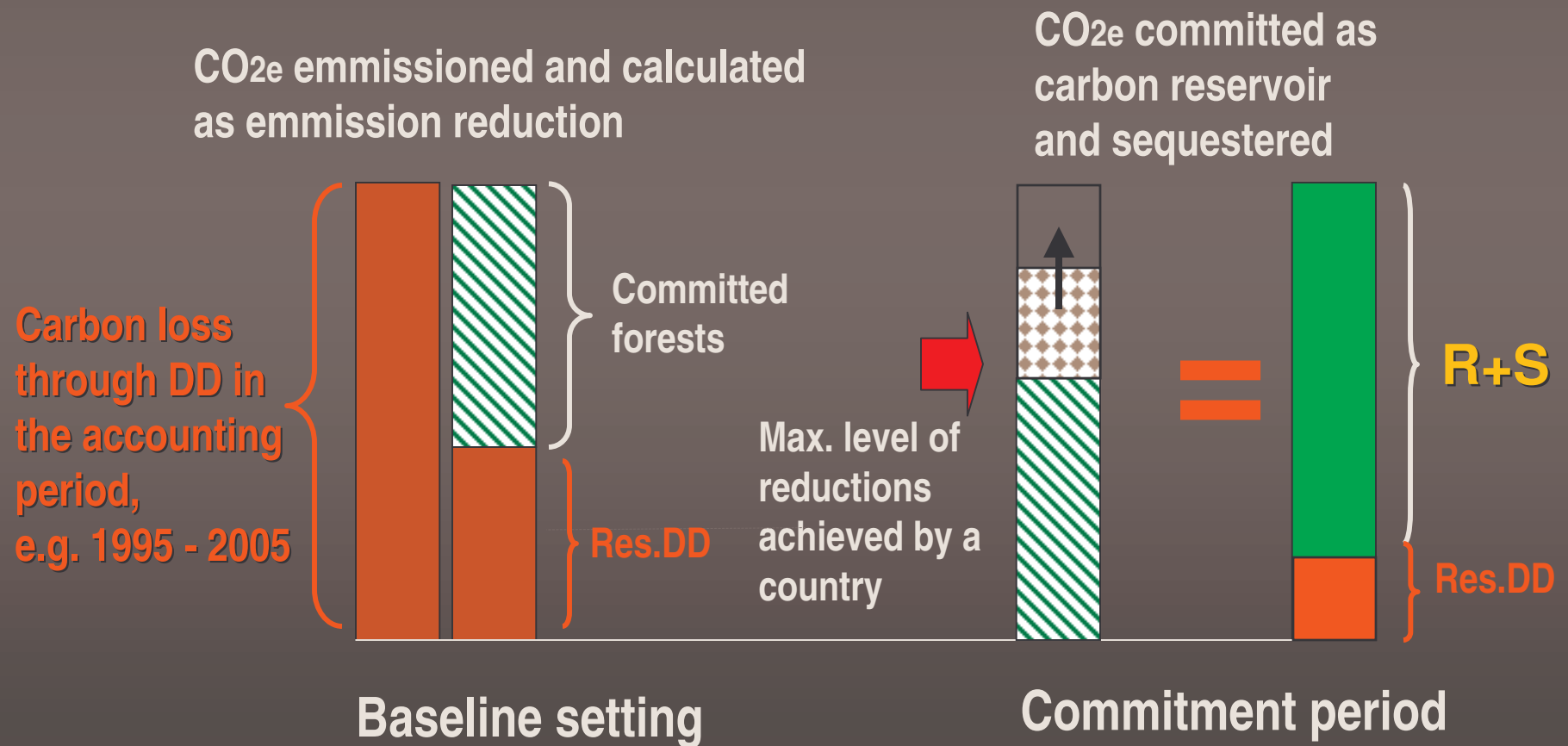
Cuzaland: Committed Forests for Emission Reduction



III. Major challenges

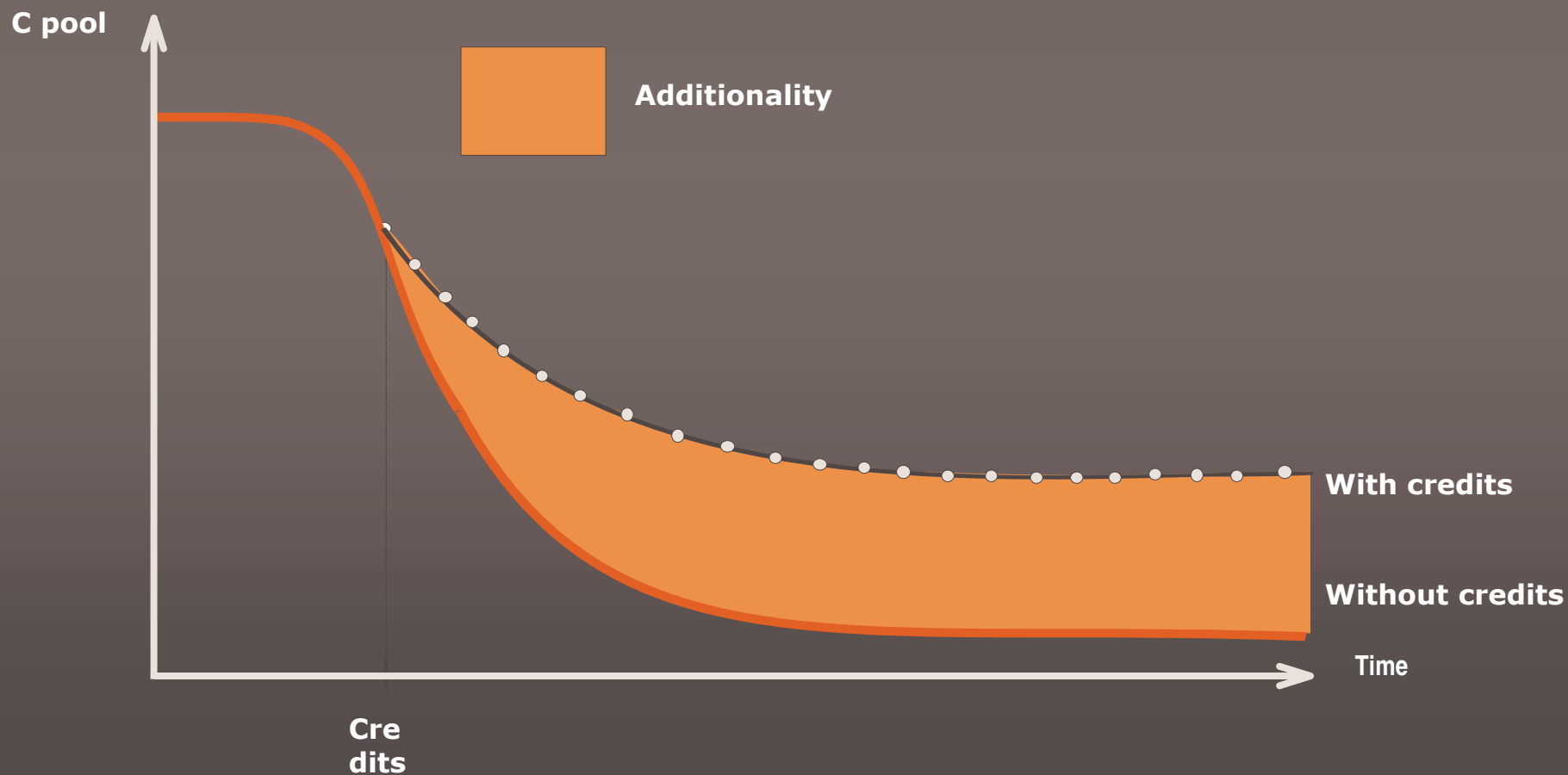
Committing forests: setting a national balance

$$CF_{(\text{national register})} = \sum (CF_{(1)} + CF_{(2)} + \dots * A_i)$$



III: Major challenges (Committed forests):

Principles of reducing deforestation and forest degradation, increasing carbon pools through international transfer payments. Methodology to be developed.



III: Major challenges: What should be committed as carbon pools?

200 mm ha	900 – 1200 m ha	150 mm ha	>200 mm ha
			
No potential	High potential	Limited potential	Limited potential
Non-accessible intact forests, Remote forest Protected areas	Multiple-Use Forest Area: Accessible forest areas threatened by conversion and degradation, Degraded old-growth forests, Secondary forests, Accessible forest protected areas	Timber production forests, in production or in reserve	Forestry outside forests, afforestation and reforestation, agroforests, Degraded forest land
Committed forest: defined by each country as a sub-set of the permanent forest estate that is specifically classified as a carbon reservoir that falls in an area threatened by deforestation and forest degradation			

III: Major challenges: UNFCCC principles on committed forests

- ⇒ Deforesting and/or degrading committed forests is not a rational development strategy and should be avoided at any means. It is as part of a **sustainable development** approach within a country.

- **PRINCIPLE 1 → UNFCCC/post-Kyoto/a scenario based on a CDM principle**

- ⇒ Annex 1 countries and [Non-Annex 1 countries (?)] can achieve part of their commitments through REDD in a post 2012 scenario:

How to compensate countries and communities that avoid deforestation and forest degradation in committed forests?

- **PRINCIPLE 2 → UNFCCC/post-Kyoto scenario**

III: Mayor challenges: Principles for committing forests

- ⇒ Need for clear baselines (= committed forests in year X): combining landscape and livelihood approach
- ⇒ Need to define a baseline that combines the total national emissions with the sum of all committed forests at local level
- ⇒ No distinction between “good” and “bad” deforestation, but define committed forests through a participatory process of all involved actors in deforestation
- ⇒ Start with voluntary agreements and in hot-spot regions to learn about feasibility, efficiency, equity and other aspects of committing forests
- ⇒ Develop clear approaches in respect to quantification and leakages

IV. Final considerations (1)

- ➔ REDD is happening in a **more integral and diversified framework than all other mitigation strategies to climate change**
- ➔ **REDD is characterised by:**
 - A compensation for setting aside committed forests as carbon reservoir is a “Payment for an environmental service”.
 - It is in the global interest as it can contribute substantially to reduce human-induced changes in the climate system
 - It also addresses vital concerns of other global agreements that include environmental concerns (e.g. CBD, CDD, UNFF, ITTO)
 - Hence it should be compensated through a global transfer payment
 - Such compensation can happen through a defined approach in the context of the UNFCCC (because it has already a track record in the CDM)

IV. Final considerations (2)

- Eligibility, additionality and leakage, as well compatibility with sustainable development remain the major challenges to reduce emissions from deforestation and forest degradation and to commit forests as carbon reservoirs.
- Recognising the multiple interests
- Creation of a favorable political commitment for REDD, including strategic coalitions
- Recognize the opportunities; utilising flexible approaches and approaches adapted to the situation:
 - REDD should combine a landscape and a livelihood approach to fit to its purpose!!!
Don't loose sight of the essential.