

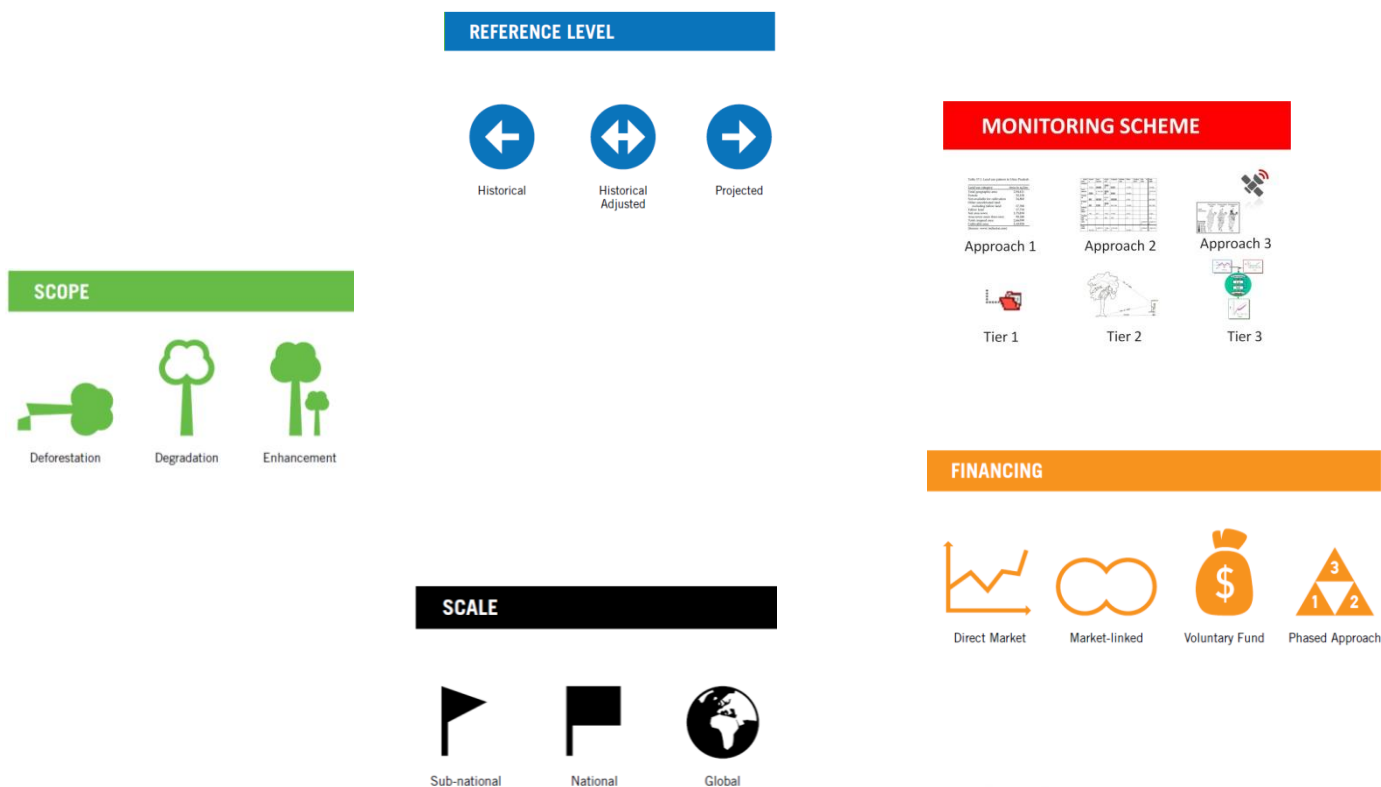
01/12/2011

A framework to assess the sustainability of different REDD+ design options

Marieke Vangoidsenhoven, Tom Dauwe, Dieter Cuypers, Roeland Samson

Introduction

- » Role of forests in climate change, put it on the UNFCCC agenda



Parker et al. (2009)

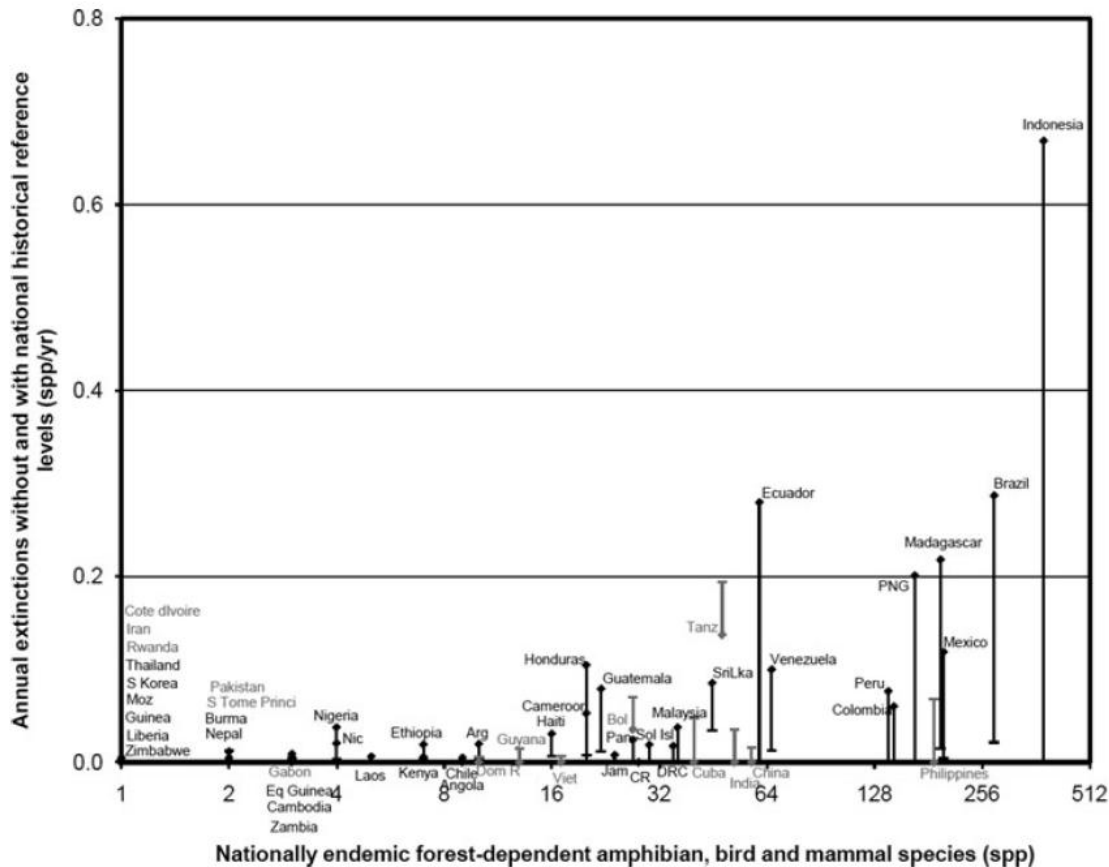
REDD+

- » The objective of REDD+ is to reduce deforestation, so REDD+ could deliver more than only reducing emissions
 - » Local, regional and global climate
 - » Livelihood
 - » Erosion & water retention
 - » Biodiversity
 - » ...

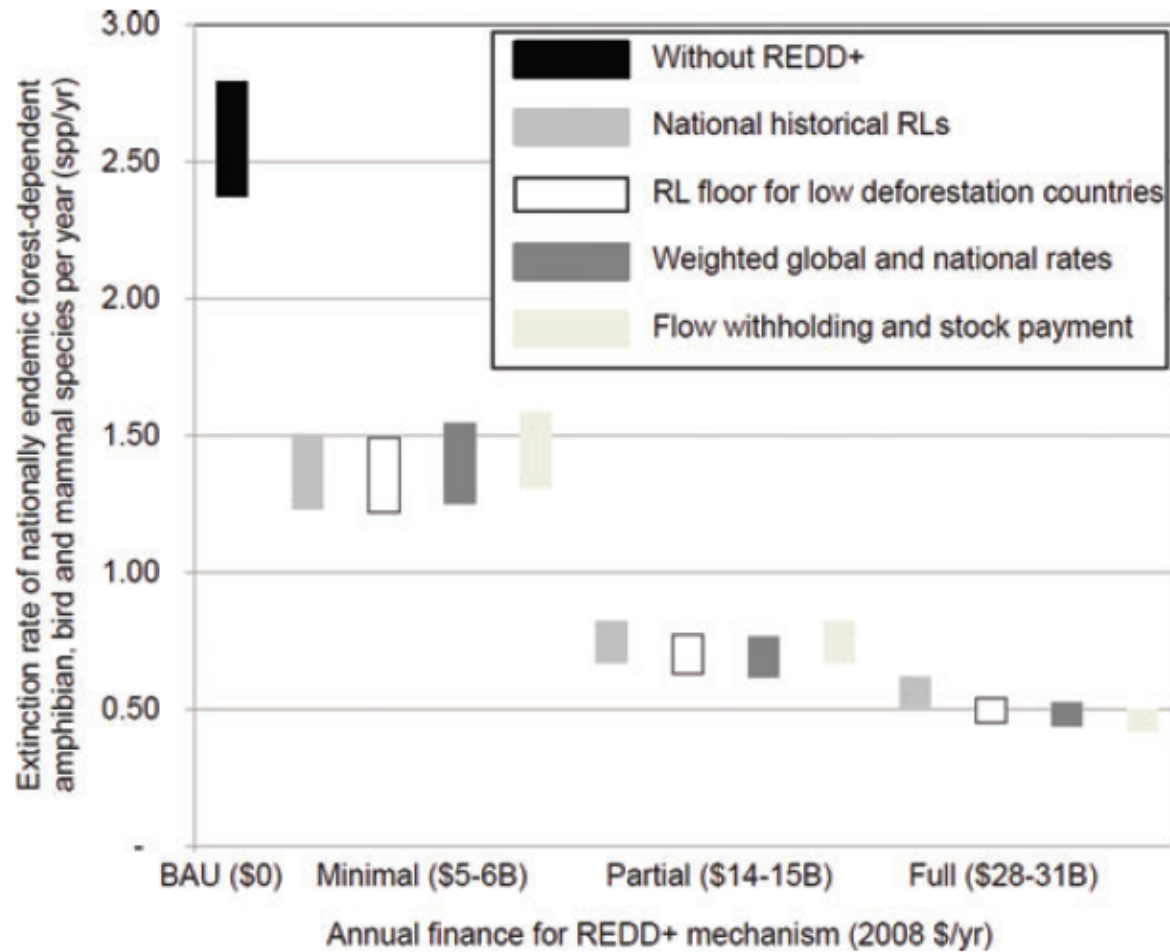
- » BUT depends on the design (and implementation) of REDD+, cfr. OSIRIS

OSIRIS & biodiversity

Busch et al. (2011)



OSIRIS & Biodiversity



Busch et al. (2011)

Cancun agreements

- » Recognises the importance of the co-benefits of REDD+ in safeguards.
 - » When undertaking activities ... the following safeguards should be promoted and supported:
 - a) Actions complement or are consistent with the objectives of national forest programmes and relevant international conventions and agreements;
 - b) Transparent and effective national forest governance structures;
 - c) Respect for the knowledge and rights of indigenous peoples and members of local communities;
 - d) The full and effective participation of relevant stakeholders;
 - e) Actions are consistent with the conservation of natural forests and biological diversity, ensuring that actions are used to incentivize the protection and conservation of natural forests and their ecosystem services, and to enhance other social and environmental benefits;
 - f) Actions to address the risks of reversals;
 - g) Actions to reduce displacement of emissions.

Cancun agreements

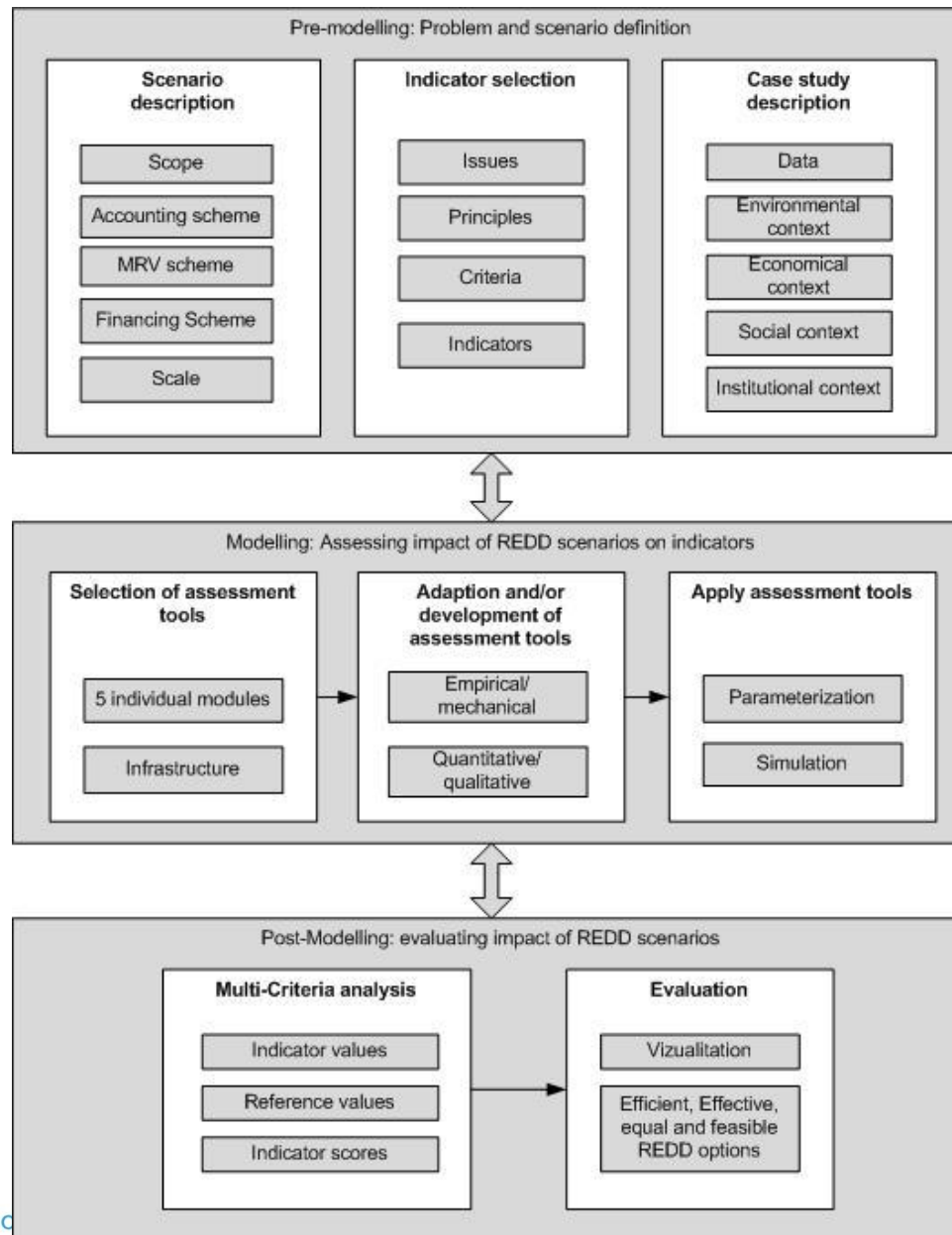
- » Recognises the importance of the co-benefits of REDD+ in safeguards.
 - » When undertaking activities ... the following safeguards should be promoted and supported:
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 - » (d) The full and effective participation of relevant stakeholders;
 - » (e) Actions are consistent with the conservation of natural forests and biological diversity, ensuring that actions are used to incentivize the protection and conservation of natural forests and their **ecosystem services**, and to enhance other social and environmental benefits;
 - » (f) Actions to address the risks of reversals;
 - » (g) Actions to reduce displacement of emissions.
- » Ecosystem services are a good metaphor for assessing sustainability

Objectives

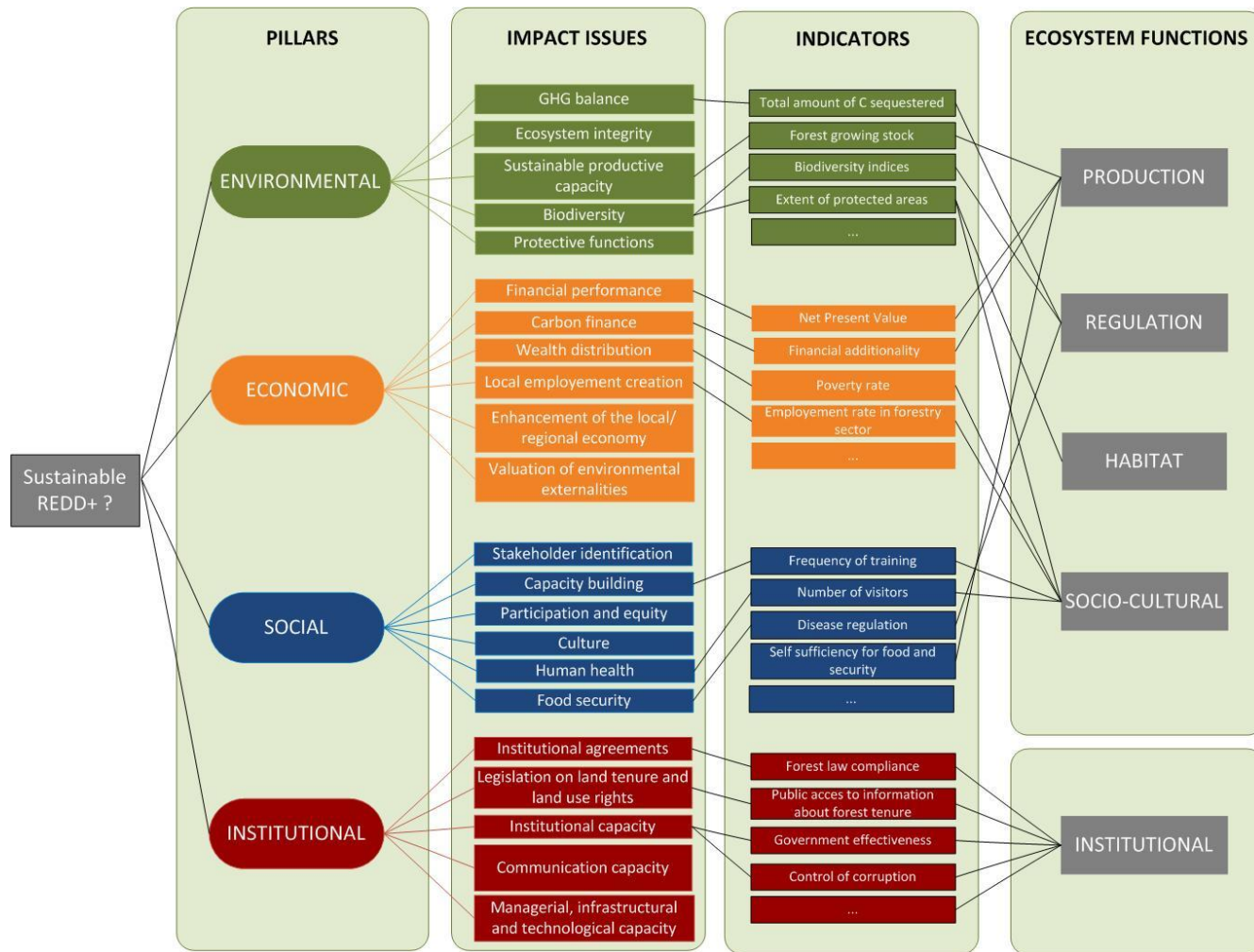


- » To develop an analytical framework for Sustainability Impact Assessment (SIA) of REDD+ policy options
- » Based on environmental, economic, social and institutional indicators.
- » The assessment consists of three steps:
 1. to determine indicators relevant for REDD+
 2. to assess the impact on indicators
 3. to assess the impact on ecosystem services linked to indicators

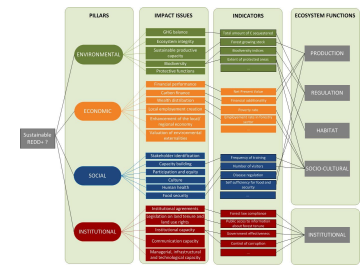
Sustainability Impact Assessment: overview



Indicator framework



Indicator framework



I. Impact issues – or theme based:

- » Relevant sustainability issues
 - » Based on 4 pillars of sustainable development
 - » Make sustainability of REDD more concrete
 - » Literature inventory: “sustainability”
 - » Climate change mitigation
 - » CC mitigation in LULUCF sector
 - » LUC
 - » Forest management & governance
 - » Agriculture
 - » Ecosystem services

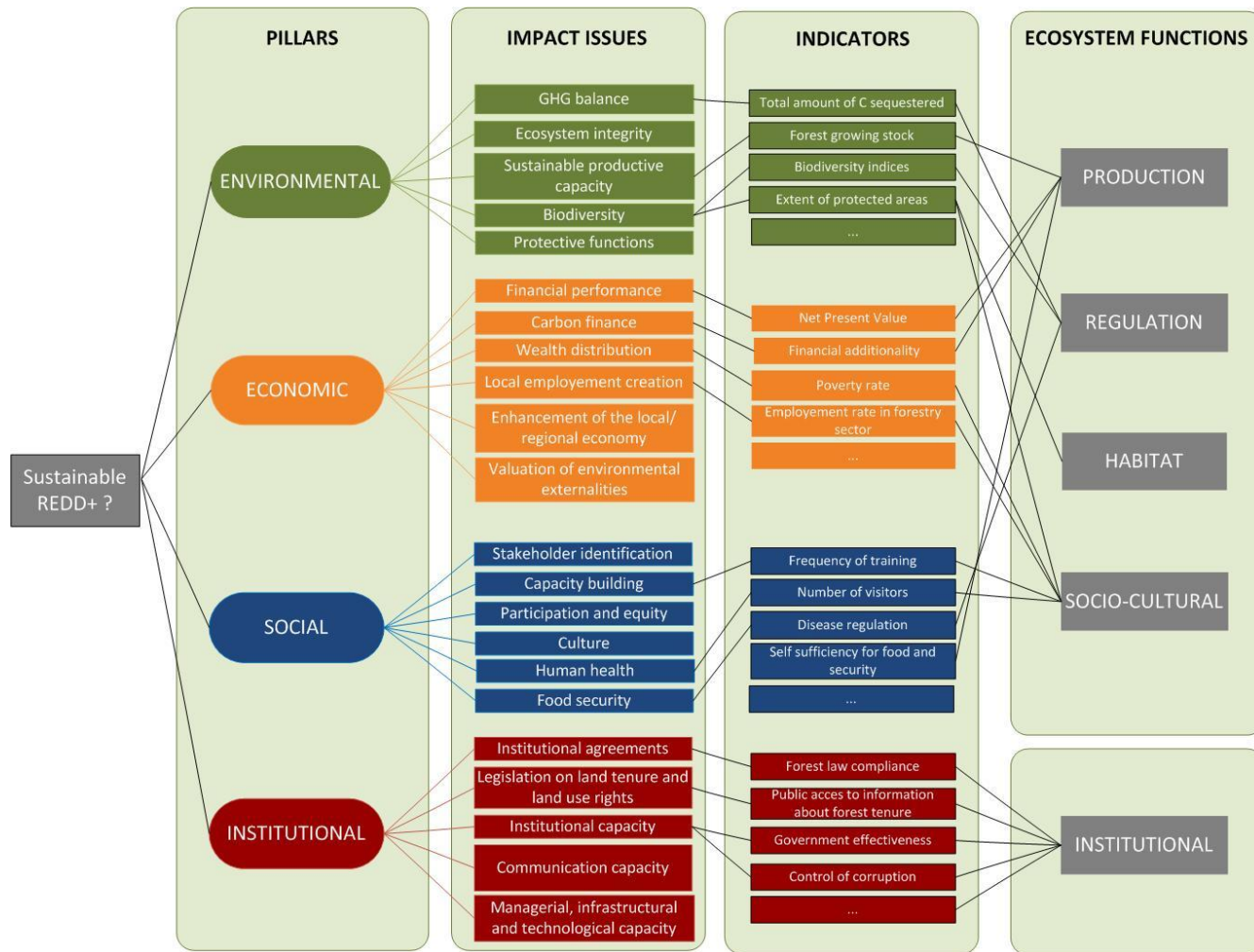
Economic

Environmental

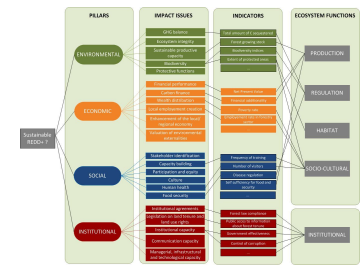
Social

Institutional

Indicator framework



Indicator framework



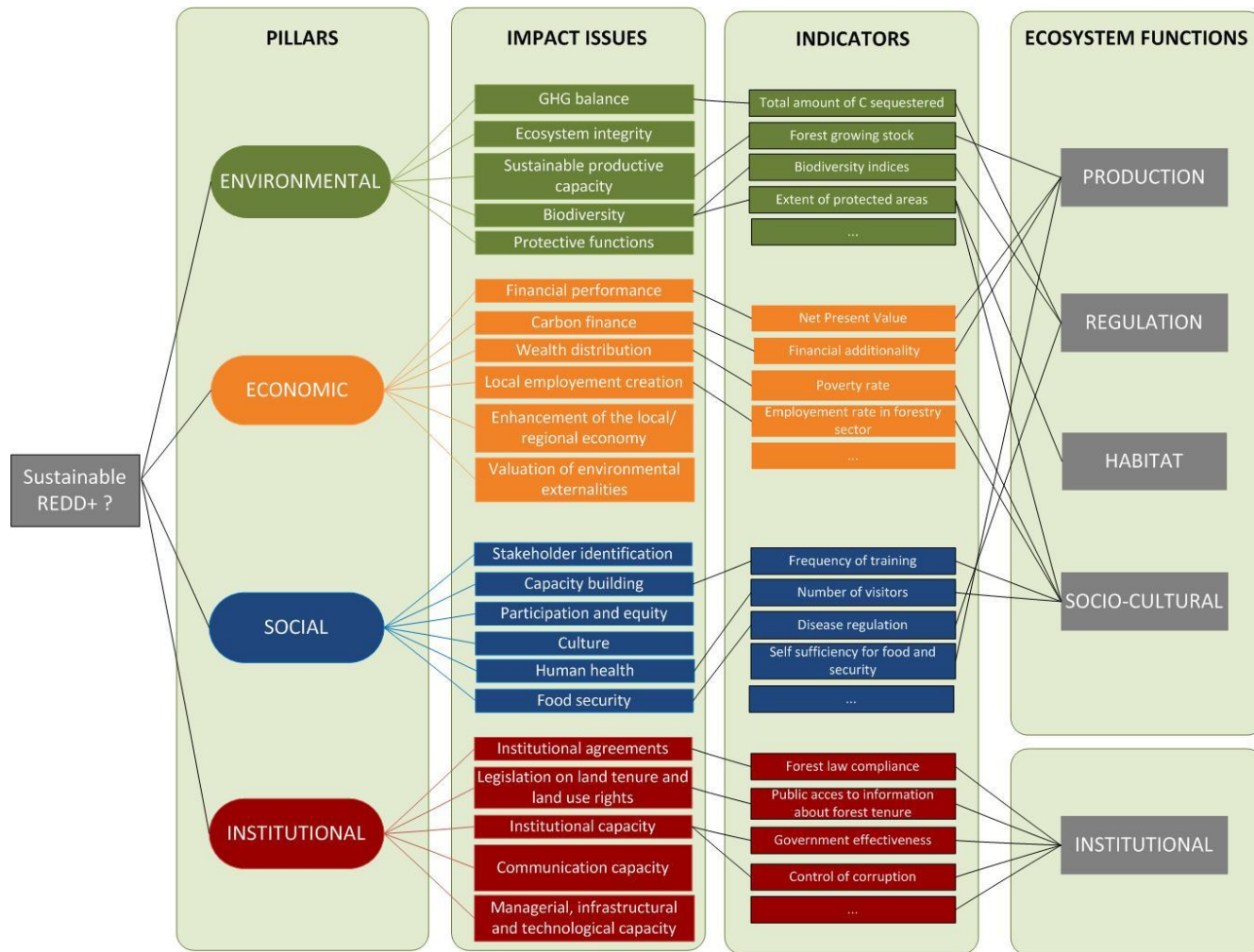
II. “Metaframework” of indicators

- » Based on existing initiatives
- » One or multiple indicators per impact issues and pillars

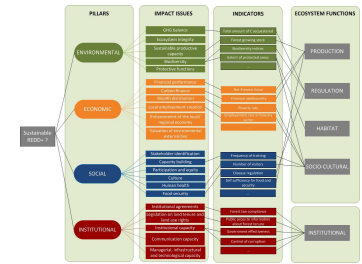
	GS	VCS	CDM	CarbonFix	Plan Vivo	CCB	ENCOFOR	REDD+	FGI	FSC	CIFOR	PEFC	SENSOR
Mitigation issues	✓	✓	✓	✓	✓	✓	✓	✗	✗	✗	✗	✗	✗
Economic issues	✓	✗	✓	✗	✗	✗	✓	✗	✗	✗	✗	✗	✓
Environmental issues	✓	✗	✓	✓	✓	✓	✓	✓	✗	✓	✓	✓	✓
Social issues	✓	✗	✓	✓	✓	✓	✓	✓	✗	✓	✓	✓	✓
Institutional issues	✗	✗	✗	✓	✗	✗	✓	✓	✓	✓	✓	✗	✗

✗: issue not covered by PC&I Initiative ✓: issue covered by PC&I Initiative

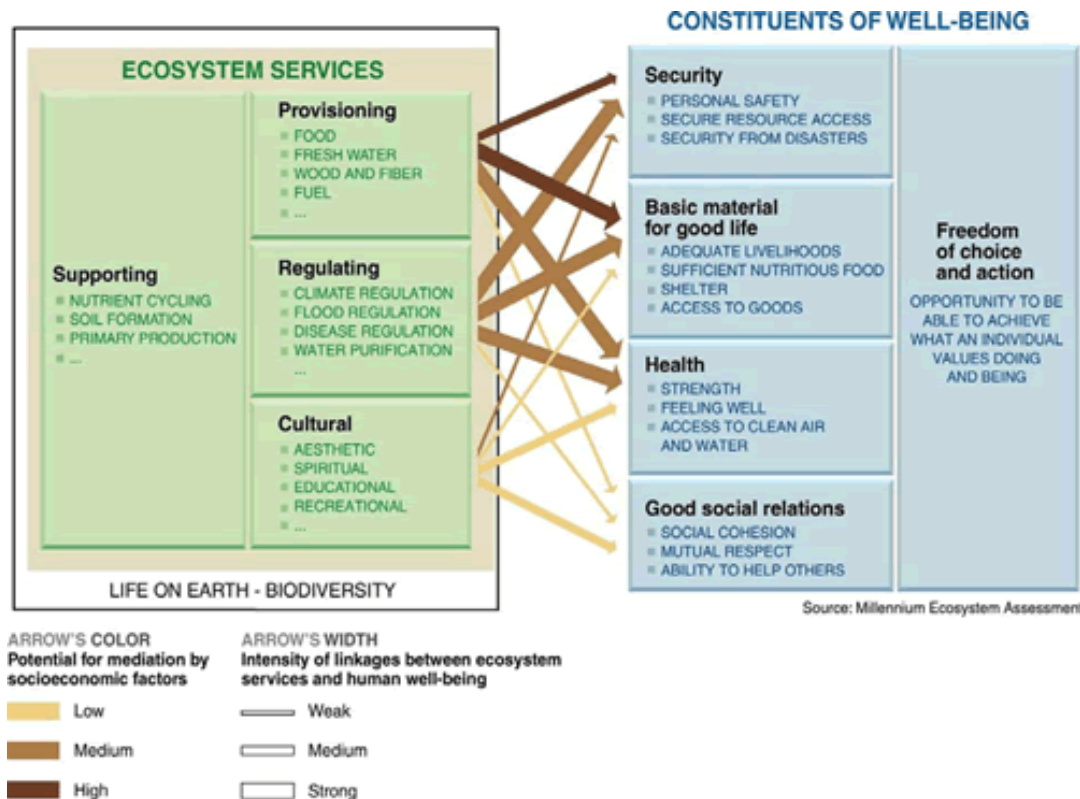
Indicator framework



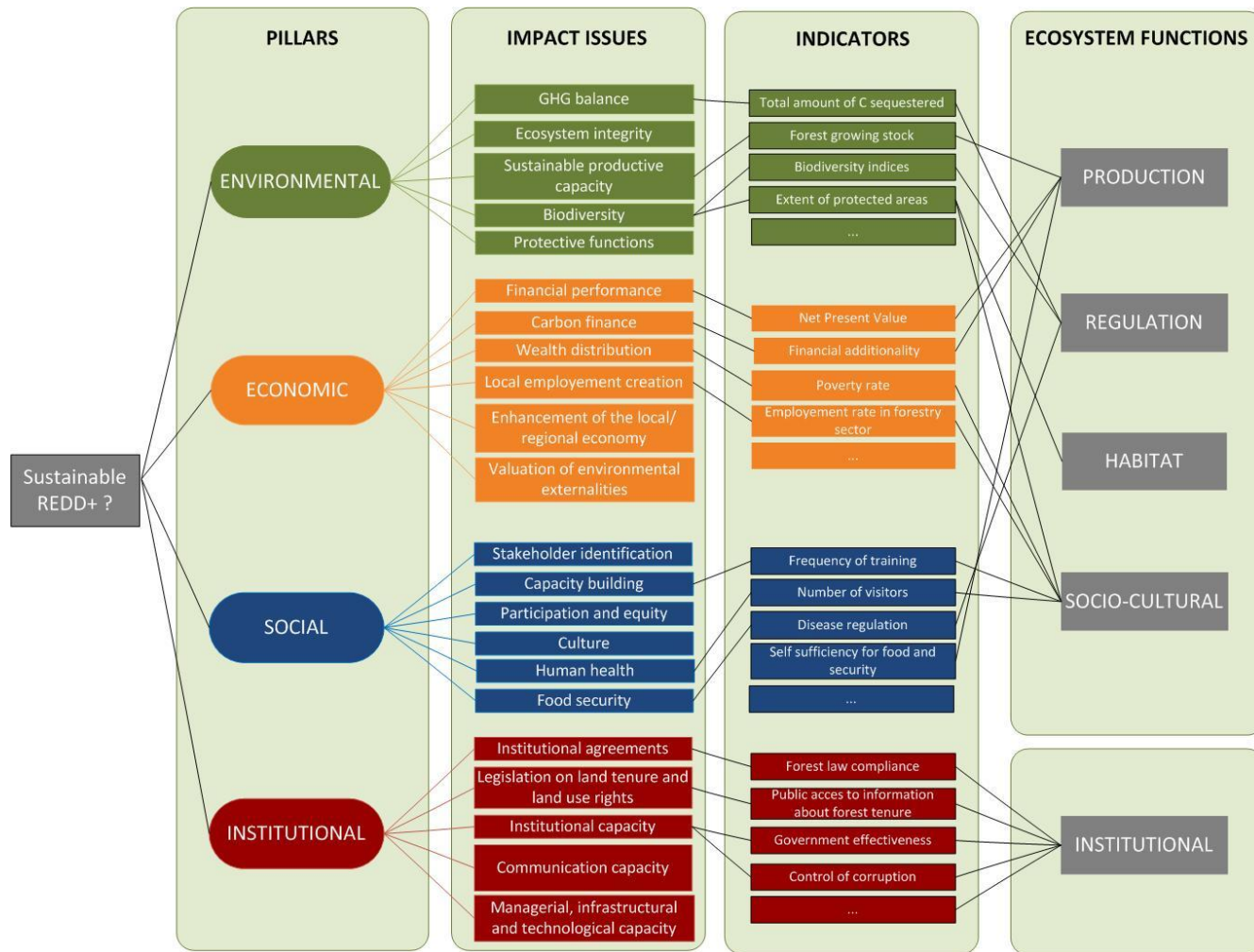
Indicator framework



III. Output: Ecosystem services/functions



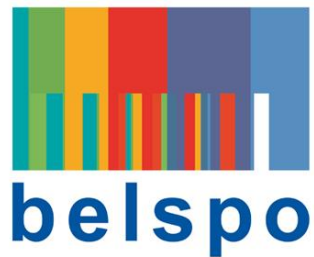
Indicator framework



Case studies



Thank you



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