

Applied Period Report

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Erasmus Mundus Master of science in European Forestry (2007-2009)

Freiburg 18th December 2007



Introduction

Project I: CBD

Project II:Valwood

Conclusion

Host Institute:

The institute of Forest and Environmental Policy

Duration: 10 weeks

Project participated:

1) CBD

2) Valwood (Institute of Forest Growth)



Introduction

Project I: CBD

Project II:Valwood

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Project description

Support of

Federal Agency for Nature Conservation (BfN)

Federal Ministry for the Environment (BMU)

Regarding

The preparation of 9th Conference of parties (COP9) of the CBD (2008)

Targeting

A global network of protected forest areas

My assignment

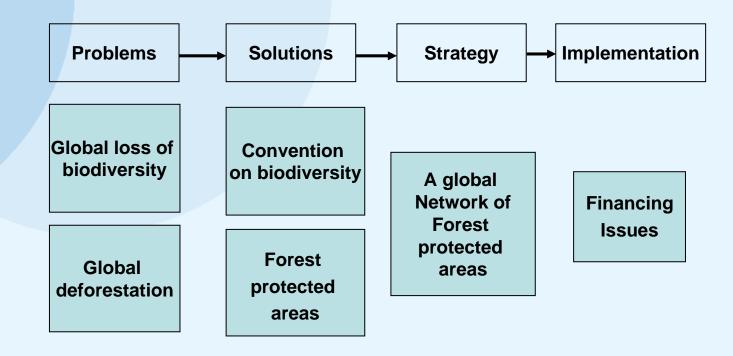
Analysis on the potential of financing mechanisms for forest protected areas



- 1. Introduction
- 2. Classification
- 3. Criteria
- 4. Evaluation
- 5. Comparison

Analysis on the potential of the financing mechanisms for Forest Protected Areas

Background:





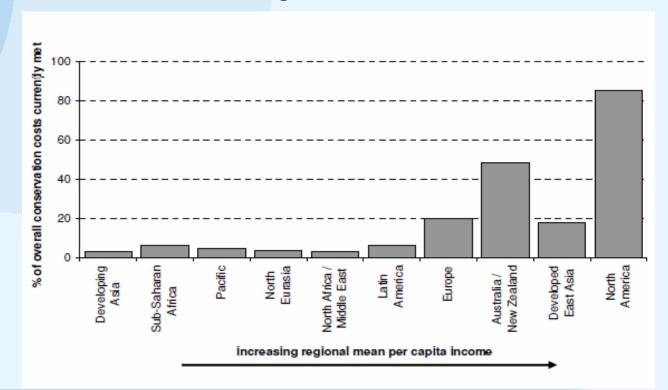
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Background (Cont.): Financing protected areas

Financing gap worldwide

Urgency in developing countries

Sustainable Financing mechanisms





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Objective

- 1. Identify possible financing mechanisms
- 2. Analyze their potential
- 3. Make comparison



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External Source

External financing sources

- Domestic government budgets
- ✓ Official development assistance
 - ✓ Bilateral assistance
 - ✓ Multilateral
- ✓ Debt-for-nature-swaps
- ✓ Environmental funds
- ✓ Private donations

Funding for conservation

- ✓ Fiscal instruments
- ✓ Benefit sharing
- ✓ Cost sharing
- ✓ Green lottery

Internal Source

Market-based mechanisms

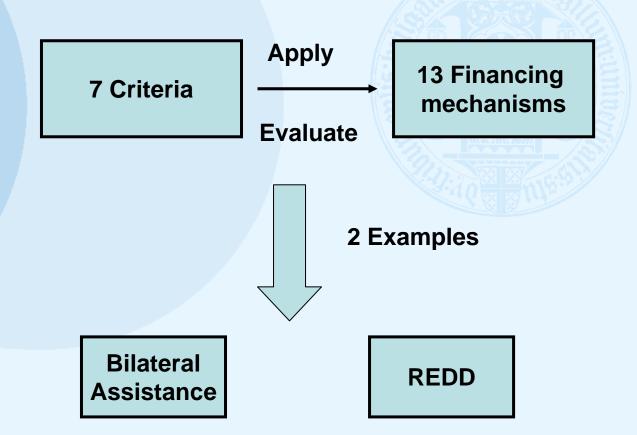
- √ Tourism charges
- ✓ Resource extraction fee
- ✓ Bio-prospecting charges
- ✓ Reduced emission from deforestation and degradation



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Criteria	Indicators			
Potential amount	Possible amount of money			
Stability	Flow of the funding			
Direct cost	Operational cost (Staff, management planning, distribution costs etc.)			
Transaction cost	Structural barriers (legislative and institutional gaps and barriers, supporting policy)			
Sound distribution system	Even, in time, flexible distribution			
The user should pay	Source of the funding			
Perverse incentives avoidance	Unintended and undesirable effect to the well management of the protected areas			

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1. Stability

Example1: Bilateral assistance (Conti.)

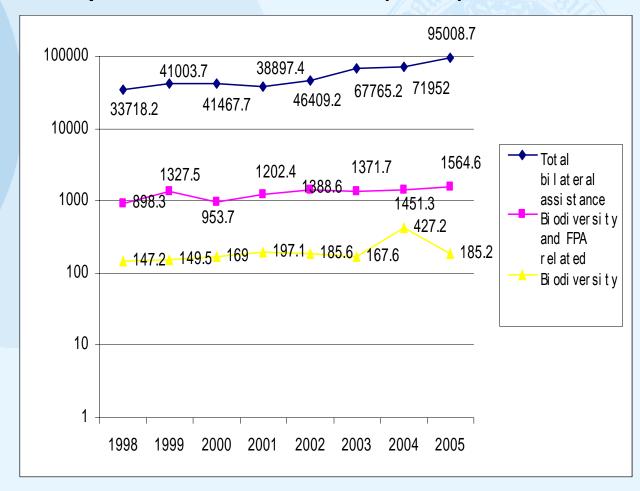


Fig: Trends of the bilateral assistance with different purpose (in million US\$)



Example1: Bilateral assistance (Conti.)

CBD project:

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2, Potential amount

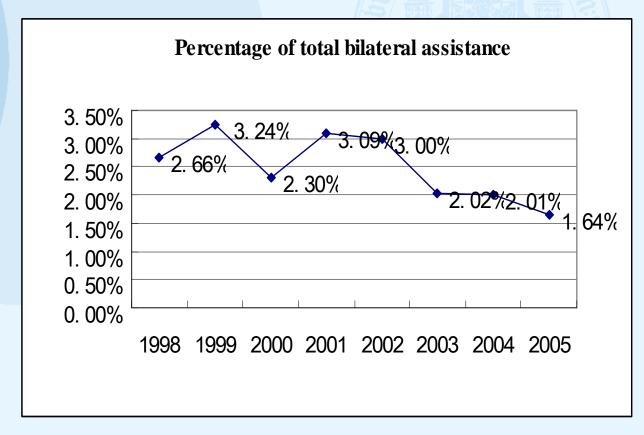


Fig 3: Share of the total bilateral assistance



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3, Direct cost:

Staff, Money transfer and distribution Relatively less bureaucratic and more efficient

4, Transaction cost to overcome structural barriers:

Shifts of the donor' interest to other targets such as poverty reduction

Transaction cost to related FPA to poverty reduction seems not that high

5, Sound distribution system:

- 1) Fairly distributed among developing countries
- 2) Less time needed for distribution, some project based assistance can be in time distributed.

6, The user should pay:

No, all external source not

7, Perverse incentives avoidance:

No

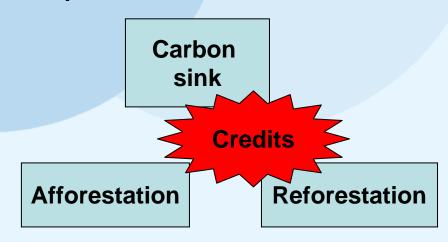


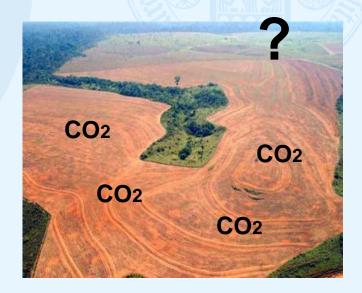
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Example 2:

Reduced emission from deforestation and degradation

Using REDD as a financing mechanisms to collect Carbon Credits for Forest protected areas



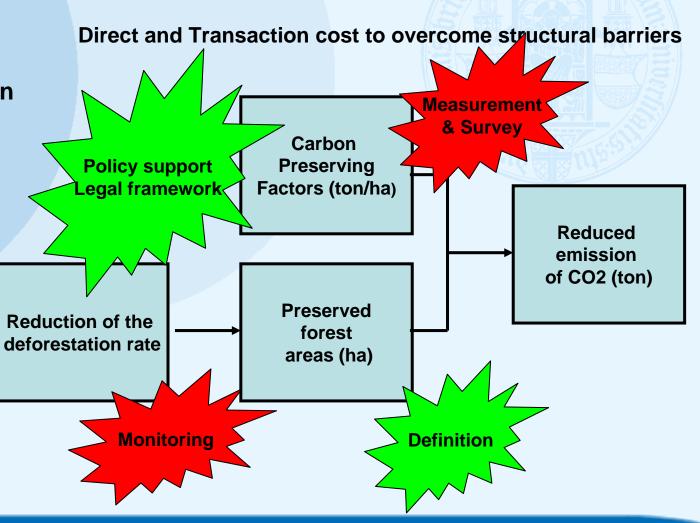


Credits for REDD

Example 2: Reduced emission from deforestation and degradation **CBD** project: 1, Potential amount: 7760.3 million provided 20% reduction of deforestation rate Introduction (Ebeling, 2006) Classification 3. Criteria **Evaluation** Carbon **Preserving** 5. Comparison Factors (ton/ha) Reduced emission of CO2 (ton) **Reduction of Preserved** the forest Potential amount **Deforestation** areas (ha) of Carbon rate Credits (\$) **Established Carbon price** emission (\$/ton) trade instrument

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Example 2: Reduced emission from Deforestation and Degradation (REDD)





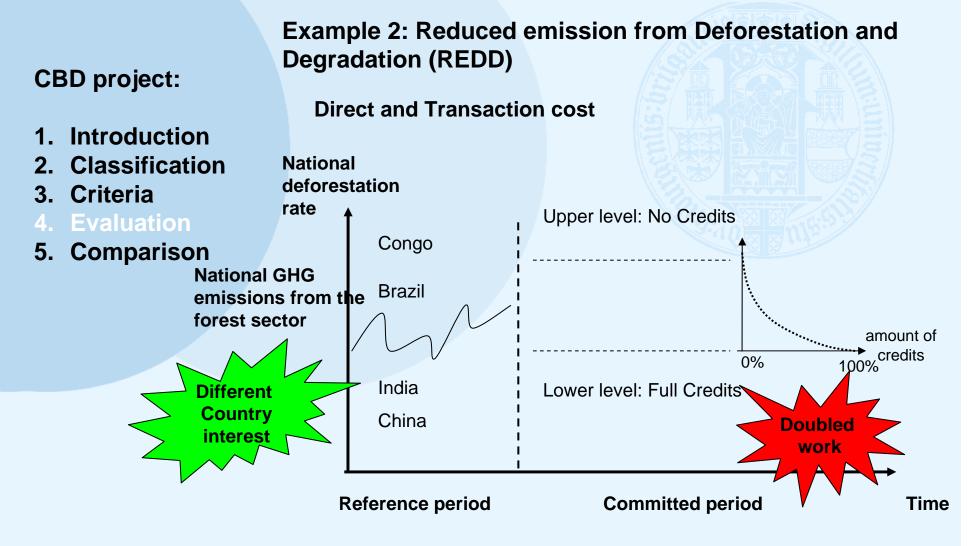


Fig. Emissions (changes in carbon stocks) over time (Bernhard Schlamadinger et.al)



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Example 2: Reduced emission from deforestation and degradation

4, Stability:

Situation may be complex depends on the reduction rate and the carbon price

5, Sound distribution system:

Need for in time distribution to realize land use change But the only verified reduction will be paid

6, The user should pay:

Partly from beneficiaries and users

7, Perverse incentive avoidance:

- 1) The over emphasis on some avoided deforestation areas may lead to high rate of deforestation elsewhere.
- 2) Lower the carbon price



Comparison between the two examples

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	Potenti al Amount	Stabili ty	Direct Cost	Transa ction cost.	Sound distribu tion system	The user should pay	Pervers e incentiv e
Bilate ral assist ance	***	***	***	***	***	*	****
REDD	***	**	*	*	**	***	*



Introduction

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Project description:

Cooperated between:

Germany and China

Aimed at

Innovative land use change by establishing agroforestry system combining valuable timber and biomass production

My assignment:

Prepare and attend the first meeting

Introduction of the project implementation area

Searching the price list of valuable timber species





I: Geographical location, Land use, Agriculture, Forestry, Climate, Social economy





II: Price list of Valuable wood

	1			
1	(ValW	ood	Implementation:	
2	a sino- german project o		Some selected tree	species
3				
4		Univeristy of Freib	urg, State administration of Forestry in China, China Ac	ademy of Forestry
5		德国弗莱堡大学,	中国国家林业局,中国林科院	
6		Johanna.Storch		Jian WU
7		Johanna. Storch	@iww.uni-freiburg.de	wujian1985swordsmar
8	Speices name	中文名	Timber price原木价格(RIB/m3)	Origion产地
	Zelkova			
9	Schneideriana	大叶榉树	市场报价5100-5400元/立方米	Zhejiang Guangxi etc
10	Castanopsis hystrix	刺栲	栲木成品2600.00元/立方	Guangxi
	Cinnamomum			
11	camphora	樟树	香樟木2180.00元/立方	Guangxi
12	Melia azedarach	楝树	苦棟木1358.00元/立方	
13	Phoebe nanmu	滇楠	金丝楠木6500.00元/立方;缅甸金丝楠木3300.00元/立方	Burma
14	Juglans sp.	胡桃属	胡桃木10000.00元/立方	
15	Hovenia dulcis	北枳		
16	Paulownia sp.	泡桐属		
17	Quercus sp.	栎属	槲栎木388元/平方	
18	Tectona grandis	柚木	非洲柚木7800.00/m3 ; 缅甸柚木9800.00/m3	Africa Burma
19	Mesua ferrea	铁力木		



Introduction

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Knowledge:

Biodiversity, Forest protected areas,

Financing mechanisms (REDD)

Timber and biomass production

Experience:

How international project is started, planed and managed

Attitude and habits towards work and study

Teamwork

Great Memory





Thanks for attention!!

Freiburg Team



