IMPLEMENTATION OF REDD+ POLICY AND ITS EFFECT AT NATIONAL LEVEL: NEPAL AND BRAZIL

Outline

- Introduction
- Forest status & Deforestation in Nepal
- Nepal REDD+ strategy
- Forest status & Deforestation in Brazil
- Brazil REDD+ strategy
- Comparing Nepal and Brazil REDD+ Strategy
- Challenges and Recommendations

Introduction

- "REDD+' is the acronym of an internationally debated mechanism that stands for "reducing emissions from deforestation and forest degradation in developing countries; and the role of conservation, sustainable management of forests and enhancement of forest carbon stocks in developing countries" (FCCC/CP/2010/7/Add.1).
- According to IPCC, Deforestation and Forest Degradation contribute nearly 20% of global emissions of greenhouse gases, more that the transportation sector and second only to the energy sector.

Evolution of forest approach

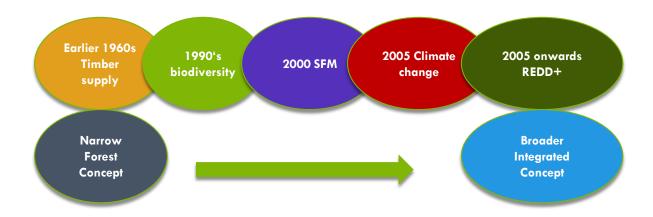
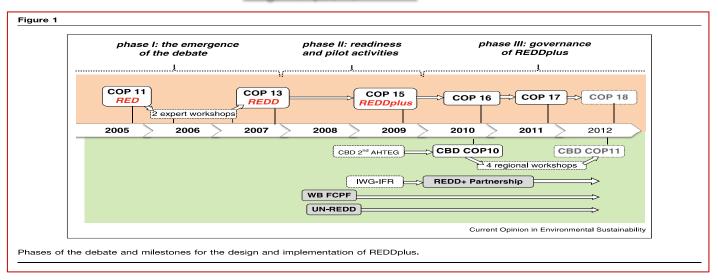


Fig: FRA,2010



Source: (Pistorius 2012)

Objective of the Study

 To analyze the different REDD+ strategies adopted by two very diverse countries – Brazil and Nepal.

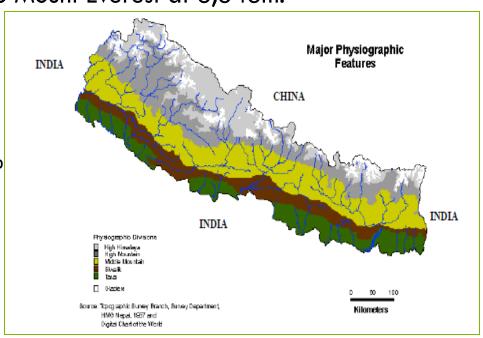
 We want to highlight the specific and common challenges of Brazil and Nepal.

 It also focuses and reflects current REDD+ initiation and readiness done by both the countries.

Forest status & Deforestation in Nepal

Forest status (I)

- Nepal is a land locked country located between China in north and India in south covering 147,180 km² (14.72 million ha) surface areas.
- The country is divided into five major physiographical regions- High Himal (23%), High Mountains(20%), Mid-hills(30%), Siwalik(13%) and Terai(14%) (GoN,2002).
- Altitude: 60 m in the lowlands to Mount Everest at 8,848m.
- Total forest area: 39.6
 percent (5.8 million ha),
 21% agricultural area, about 7%
 is public land. Rest is rocks and
 permanent snow cover areas.



Forest status (II)

Nepal forest is divided into two categories (FRA,2005):

- 1. National forest
- Government managed forest
- Protected area (NP, WR, HR, CA)
- Community forest
- Leasehold forest
- Religious forest
- 2. Private forest
- About 17, 685 community Forest User Groups (CFUGs) managing around
 1.65 million hectares of forest (28.3 % of total forest) in Nepal (DoF, 2011).

Deforestation in Nepal

- The overall deforestation rate of Nepal is 1.7%, which is well above the Asian average (1%) and the global average (1.3%) (MFSC 2008).
- Drivers responsible for deforestation and degradation in Nepal are:
- 1. High dependency on forest and forest products (timber, fuel wood and other NTFPs),
- Illegal and Unsustainable harvest of forest products,
- 3. Forest fire,
- 4. Encroachment
- 5. Overgrazing,
- 6. Infrastructure development,
- Resettlement, and
- 8. Expansion of invasive species.

Cover	Unit	Year		
Туре		2000	2005	
Forest	Area(00	3900	3636	
	Oha)			
	%	26.5	24.7	
Shrub	Area(00	1753	1897	
	Oha)			
	%	11.9	12.9	
Total	Area(00	5653	5533	
	Oha)			
	%	38.4	37.6	

Nepal REDD+ Strategy

Implementation of REDD+ in Nepal

- As a signatory party to the UNFCCC, Nepal is committed to contribute in reducing global warming. Nepal contributes 0.025% to the global annual GHG emission (MOPE 2004).
- Ministry of Forest and Soil Conservation (MoFSC) Submitted Readiness Preparation Proposal (RPP) for REDD+ plus to the FCPF of the World Bank on 19 April 2010.

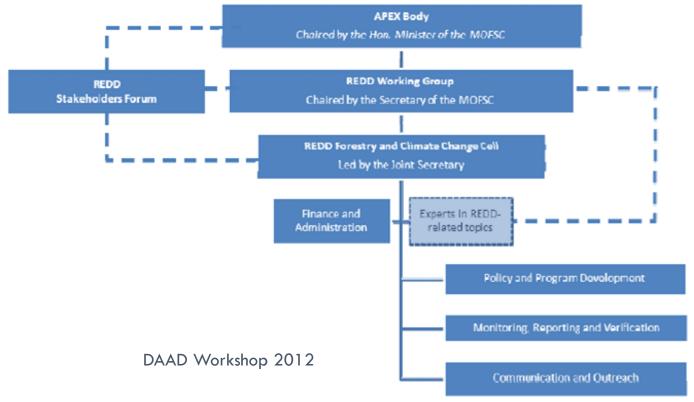


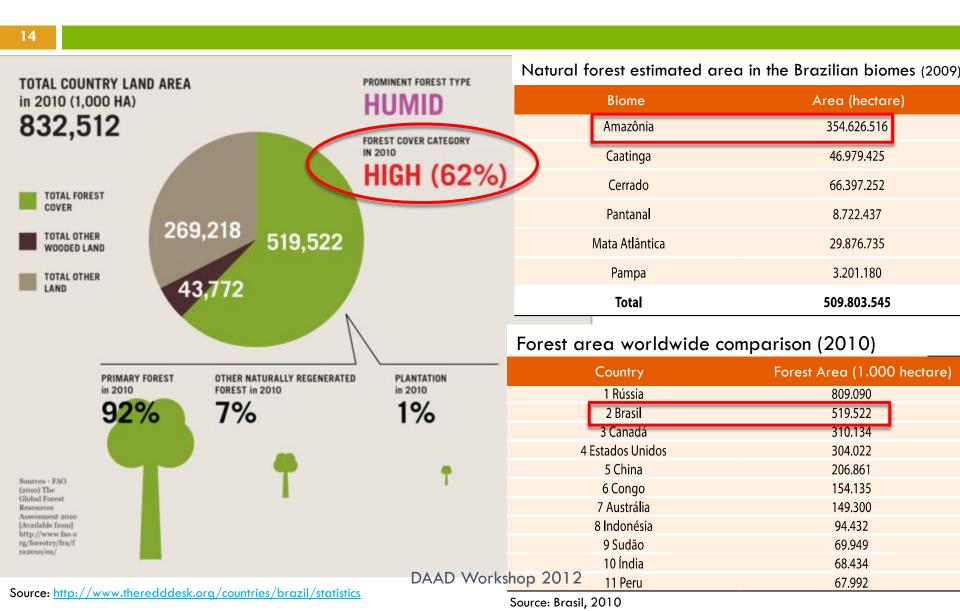
Fig. Institutional Arrangement Layout (Source: Readiness Phase, REDD Cell, Nepal July 2010)

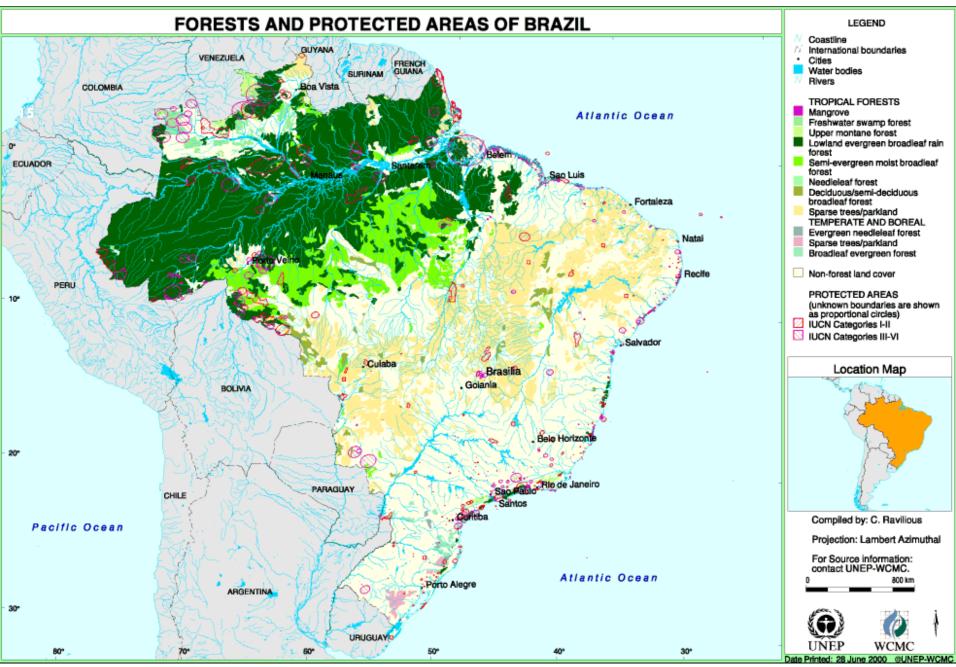
Readiness Phase

- Stakeholders consultation and participation.
- Monitoring, Reporting and Verification System- By the combination of remote sensing data and ground verification through permanent sample plots established by FRA(Forest Resource Assessment).
- REDD+ projects- REDD+ related projects funded from FCPF, SDC, DFID, NORAD, Finland, Japan, US. Focus areas are awareness raising, capacity building and methodologies development and to support for the development of the national REDD Strategy.
 - A demonstration project along the three watersheds funded by NORAD ,105 forest users groups received a total of 95,000 dollars in 2011(SHAHI 2011)
- Investments outside the forest sector necessary to reduce the pressure on forests-

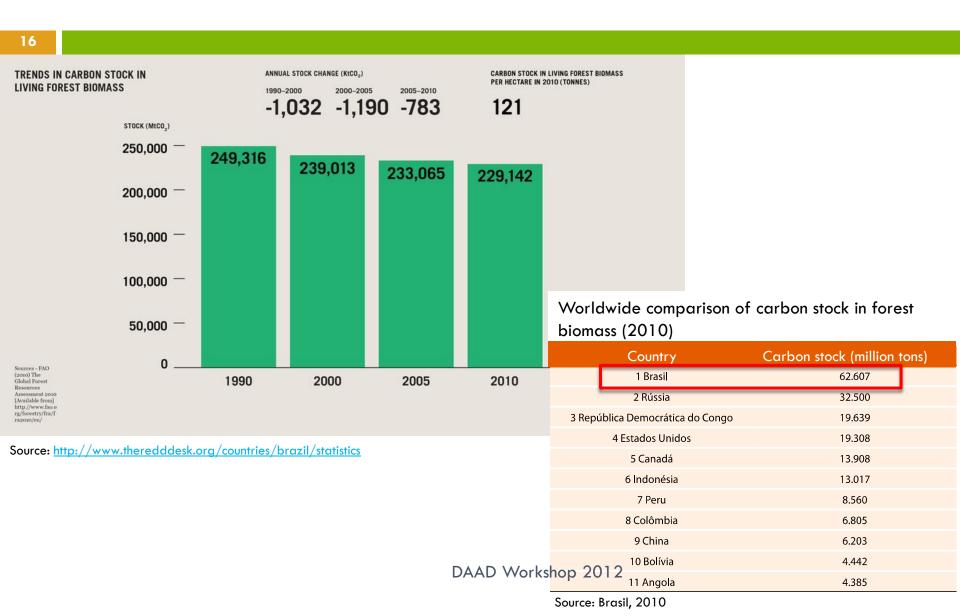
Forest status & Deforestation in Brazil

Forest status





Forest status - Carbon stock





Main causes of deforestation and forest degradation

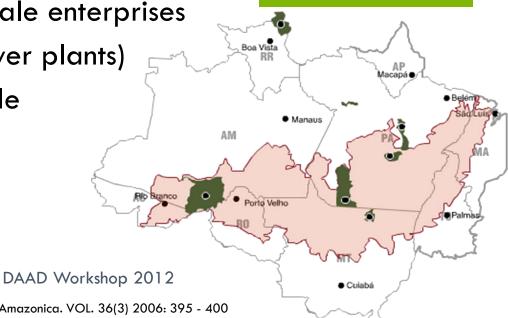
- Cattle pasture
- Large-scale commercial agriculture (soybean)
- Biofuels production (ethanol)
- Logging activities
- Infrastructure and urbanization

Implementation of large-scale enterprises

(mining and hydroelectric power plants)

Colonization and small-scale subsistence agriculture

Fires

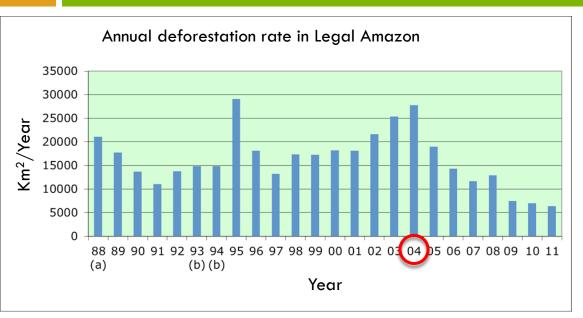


Arc of deforestation

Sources: UNEP; FAO; UNFF, 2009, p. 20, 44.

FEARNSIDE, P. Deforestation in Amazonia: dynamics, impacts and control. Acta Amazonica. VOL. 36(3) 2006: 395 - 400

Deforestation rates



Deforestation rate: reduction of 8% in comparison to 2010

PRODES 2010: 7.000 km² PRODES 2011: 6.418 km²

Source: http://www.inpe.br/noticias/noticia.php?Cod_Noticia=2938

- 2004: Plan for Prevention and Control of Deforestation in the Legal Amazon (PPCDAm).
- 2008: Sustainable Amazon Plan (Plano Amazônia Sustentável PAS)

The Brazilian REDD+ strategy

GHG emissions and land use change and forest

GHG anthropic emissions and removals:

Sector	1990	1994	2000	2005	Variation 1990/ 2005	Part. 1990	Part. 2005
	(Gg CO2e)			%			
Energy	214.922	256.389	328.089	362.032	68	15,8	16,4
Industrial processes	26.686	28.776	34.657	37.097	39	2,0	1,7
Agriculture	346.668	378.409	401.428	487.399	41	25,4	22,1
Land use change and Forests	746.429	789.534	1.246.968	1.267.889	70	54,8	57,5
Waste treatment	27.661	31.804	40.720	48.945	77	2,0	2,2
TOTAL	1.362.366	1.484.913	2.051.861	2.203.362	62	100,0	100,0

Three-pronged Brazilian REDD Strategy (2009)

Definition of deforestation reduction targets

National Policy on Climate Change Reducing GHG emissions from 36,1% to 38,9% until 2020, BAU scenario

Development of integrated actions for deforestation control and prevention

Implementation of PPCDAm (2004)

- Land use planning

 Forest cover monitoring: remote sensing systems

Development and implementation of the Amazon Fund (2008)

Projects of
deforestation
prevention, monitoring
and combat, and forest
conservation and
sustainable use

Non-refundable investments

➤ 2010: 3 initiatives of stakeholders engagement

Source: BRASIL, 2009 DAAD Workshop 2012

Amazon Fund

- Until November 2012:
 - 30 contracted projects: total support of US\$ 154,9 million
 - Plus 4 approved
 projects with a total
 support of US\$ 39,9
 million.

DONOR	R\$	US\$	DATE (month/day/year)	
Norway's Government	36.448.350,22	20.960.578,70	10.09.2009	
Norway's Government	49.600.536,48	28.283.364,59	08.09.2010	
Norway's Government	82.144.231,20	45.149.077,28	03.23.2012	
Norway's Government	36.109.415,20	17.817.731,77	10.02.2012	
Federal Republic of Germany - KfW	6.644.100,00	3.952.500,00	12.29.2010	
Petróleo Brasileiro S.A. Petrobras	1.765.983,70	1.016.335,00	10.14.2011	
Petróleo Brasileiro S.A. Petrobras	4.114.671,55	2.368.020,00	10.14.2011	
Petróleo Brasileiro S.A. Petrobras	1.435.257,60	826.000,00	10.14.2011	
Petróleo Brasileiro S.A. Petrobras	156.626,00	88.750,00	01.23.2012	
Petróleo Brasileiro S.A. Petrobras	282.584,58	150.255,00	04.26.2012	
Petróleo Brasileiro S.A. Petrobras	174.320,80	85.155,00	07.13.2012	

Source:

http://www.amazonfund.gov.br/FundoAmazonia/fam/site_en/Esquerdo/doacoes/

Voluntary projects (I) Amazon Reserve rainforest Instituto Ouro Verde protection, Brasil Aprovado pelo Fundo 24 Willow Rivers da Amazônia http://www.willowrivers.com/ » PSA Peugeot Citroen Group http://www.ouroverde.org.br/ sustainableforestry-management-» L'Office National des Forêts Reflorestamento na » Idesam rainforest-protectionamazon.shtml · http://www.reflorestamentoecarbono. http://www.idesam.org.br/projetos/apui.php região do Xingu com.br/novo/portal/ » Alianca da Terra » IPAM Sul do Amazonas http://www.aliancadaterra.org.br/ » Idesam http://www.idesam.org.br/projetos/sulam.php **SuruiPaite** Forest Trends » Ambiental PV Programa Bolsa Floresta • » Rede Povos da Floresta » AmazonConservation Team FAS Instituto Kaninde http://unfccc.int/files/methods_science/ Amazonas **Alto Teles** http://www.overbrook.org/ REDD+/application/pdf/pdd juma reserve newsletter/03_09/pdfs/env/ **Pires** red project v5.0.pdf Katoomba_Group.pdf » TNC Não tem Cinta Larga Mato Grosso endereço Reserva de Desenvolvimento eletrônico » Viridor Sustentável do Juma http://viridor.net/project-brazil Idesam Prolifico http://www.idesam.org.br/projetos/sulam.php » Prolifico · http://prolificofoundation.org/ Poço do Carbono Jurena Kayapó/Xingu Socio-Ambiental Projeto do Estado do » Prefeitura municipal de Jurena Acre para Incentivos aos » CI http://www.carbonojuruena.org.br Serviços Ambientais » EDF **Iniciativa WWF Forest** » Wild Foundation Carbon Network Estado do Acre » Associação Floresta Protegida (AFP) **Mato Grosso** http://www.ac.gov.br/index. » Instituto Kabu (IK) » WWF php?option=com_docman&task=cat_ » TNC » ICV view&aid=44&Itemid=165 » SKY » ICV » Instituto Socioambiental (ISA) http://www.worldwildlife.org/what/ » FUNAI » Estado do Mato Grosso howwedoit/conservationfinance/ » PAM http://www.nature.org/initiatives/ Approaches%20to%20Financing%20 climatechange/files/brazil_REDD+_ Conservation.html; http:// » WHRC LEGENDA fact sheet final.pdf Nome do Projeto rainforestrescue.sky.com/

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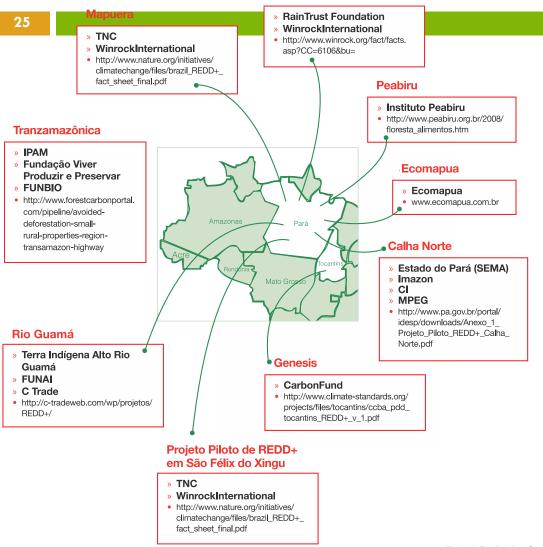
http://icfcanada.org/kayapo.shtml

REDD+_Lessons_Learned.PDF

http://www.conservation.org/Documents/CI

Voluntary projects (II)

RainTrust REDD+

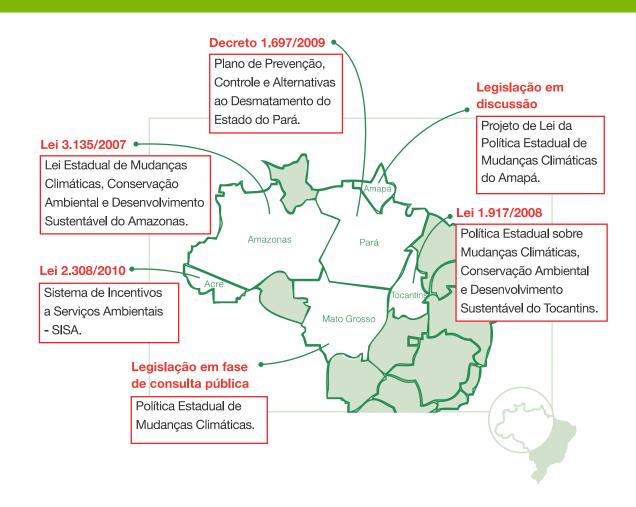


Additional projects:

- Guaraqueçaba Climate Action
 Projects in Brazil's Atlantic Forest
- 5 projects in initial stage

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REDD+ Subnational policies (under development)



Comparing Nepal and Brazil REDD+ Strategy

Comparison

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	Use of 1978 LRMP data, FRA report	National Plan on Climate Change: historical deforestation rate		
Reference level	2012 and some intermediate points (satellite image interpretation)	<u>Project and state level</u> : based on both projected and historical rates of deforestation		
Financing	It comes under Low Forest and High Deforestation (LFHD) (Fonseca et.al) category countries. Funded by FCPF.	It comes under High Forest and High Deforestation (HFHD) category. Finance by Voluntary fund.		
Distribution	Between Government and mainly Focused to CFUGs, the main implementer of REDD	Under formulation (different approaches are currently being used)		
MRV	Remote Sensing Data, data from permanent sample plots developed by FRA and socio economic data from various sources.	INPE/PRODES: monitoring and producing annual data on deforestation rate (data also used by NGOs) DAAD Workshop 2012		

BRAZIL

NEPAL

Does it make sense to compare?

Share experiences and practices

- Highlight
 - Specificities of each country and, therefore, need of customizing REDD+ at national level, but also...
 - Common challenges:

rights definition, institutional coordination)

Insufficient Financial resources to operate REDD+

Certification process (financial and human resources)

Increase competitiveness in a global carbon market

Capacity building for proponents of REDD+ projects

Challenges	rkshop 2012	
30	Nepal	Brazil
Lacking availability of degradation data	V	V
Advance remote sensing technology and technical capacity to operate is lacking	V	

More synergies between national forest policies and REDD+ policies

Enforcement of limited forest use (imposed by REDD+) by communities

Equitable benefit sharing (local traditional or indigenous communities)

Forest governance (multi-stakeholder dialogue, enforcement of legislation, tenure

Some recommendations

- Consider the lessons learned in the Readiness Phase in the Implementation
 Phase (e.g. local communities and other stakeholders consultation processes).
- Concrete long-term framework for sustainable forest GHG emissions reduction (after REDD+ completion).
- Effective MRV system should be formulated.
- Carbon trading should be made clear, transparent and with defined period.
- Recognition that countries with low forest cover, high deforestation rates and high carbon stocks should be included in a future REDD+ mechanism.

References

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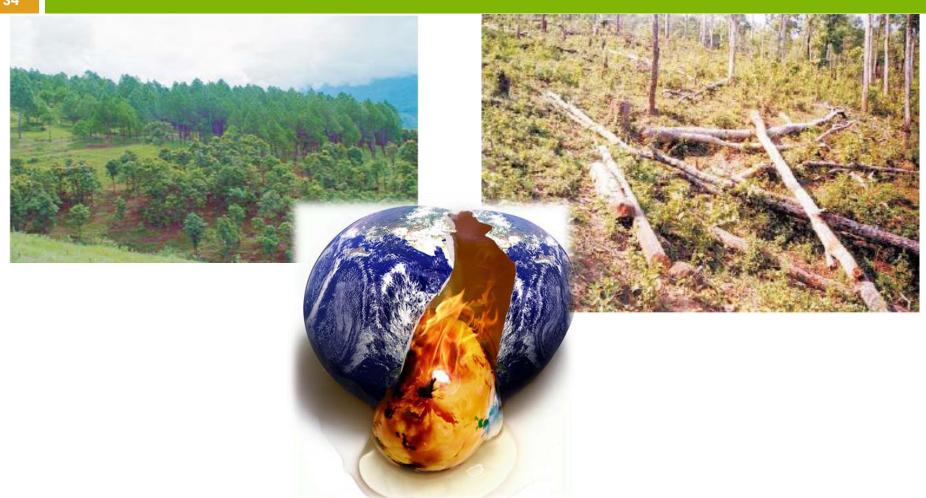
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