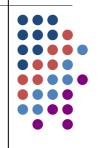
Financing Forests for Climate Change Mitigation and Adaptation

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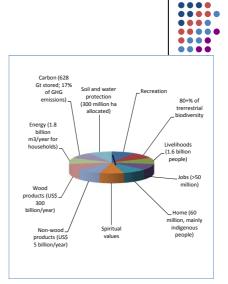
Presented at Seminar "Frontiers of Climate Change Adaptation and Mitigation in South Asia", Institute of Disaster Management and Vulnerability Studies, University of Dhaka,





1. Value of forests

- Critical for human survival and well-being
 - Ecosystem services provided by forests:
 - Supporting services soil production and nutrient cycling;
 - Provisioning services timber and non-timber products;
 - Regulating services climate and hydrological regulation;
 - Cultural services cultural, religious, recreational and scientific values.



Source: UNFF, 2009 (http://www.slideshare.net/CIFOR/the-un-forum-onforests-facilitating-and-catalyzing-sfm-financing)



2. Global forest cover change



- Almost half of Earth's original forest cover gone, much of it destroyed within past three decades (WRI 1997)
- Globally, on average 13 million hectares of forest were converted to other uses mostly
 agriculture or lost through natural events each year from 2000 to 2010 (FRA 2010).

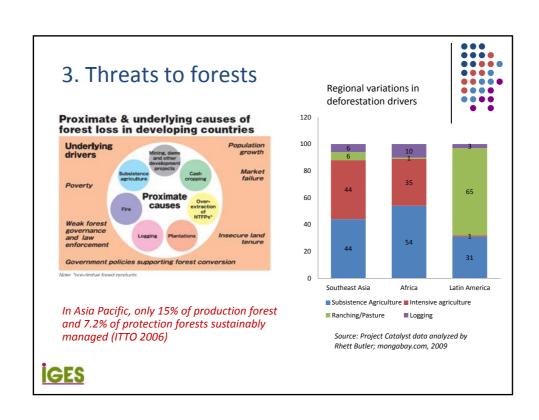
Annual change in forest area by country, 2005–2010



Ten countries with largest annual net loss of forest area 2000-2010 (FRA 2010)

Country	Annual Change	
	(1,000 ha/yr)	%
Brazil	-2,642	-0.49
Australia	-562	-0.37
Indonesia	-498	-0.51
Nigeria	-410	-3.67
United Rep. of Tanzania	-403	-1.13
Zimbabwe	-327	-1.88
Dem. Rep. of the Congo	-311	-0.20
Myanmar	-310	-0.93
Bolivia	-290	-0.49
Venezuela	-288	-0.60

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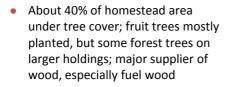
4. Situation in Bangladesh



- Relatively low forest cover and quality, and conditions declining further
 - Forest cover depleted from 10% to 6% of total land cover (National Biodiversity Strategy and Action plan for Bangladesh, 2006); Annual forest loss "alarming"; ~ 0.015 million hectares (FAO 2011)
 - In the Sundarbans, growing stock decreased by 51% between 1959 and 1996; roughly 1% / yr.
 - Many good coastal mangrove plantations in Chittagong and Noakhali lost to shrimp farms
 - Etc. (FAO 2011)

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 Forest and trees important for their wide range of ecosystems services, and especially to households



 Non-wood forest products (Bamboo, Fish, Golpatta, etc.) make significant contribution to supporting economic activities (0.6 million (mostly poor) people from the FD forests) (FAO 2011).



 Table 14. Estimates of energy supplied by traditional fuels

 Year
 Cow Dung
 Firewood
 Other Residues
 Total

 1995
 2018
 1113
 7656
 10787

 1996
 2008
 1166
 7616
 10790

 1997
 2005
 1219
 7834
 1105a

 1998
 2046
 1166
 7907
 1119

 1999
 2156
 1113
 7665
 10934

 2000
 2441
 1166
 7932
 1159

 2001
 2471
 1166
 8153
 11790

 2002
 2471
 1166
 8153
 11790

 2003
 2471
 1219
 8343
 12033

 2004
 2502
 1219
 8449
 12139

 2004
 2502
 1522
 8547
 12321

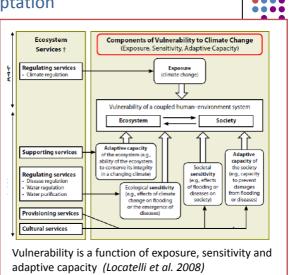


- Drivers of forest change in Bangladesh
 - Policy focus on "production oriented forestry" with few benefits for local people (now moving towards "people oriented forestry")
 - Under-resourcing and weak institutions within Forestry Department
 - 80% of funding now project based. Example of consequence: Planted forests mostly established by projects; start of well but after 15-20 years resemble "scattered trees"
 - Loss of managerial efficiency and corruption of FD managers associated with insufficient incentives
 - Conflicts, contradictions and confusions due to overlapping sectoral policies (FAO 2011)

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5. Why forests need to be better managed for climate change adaptation

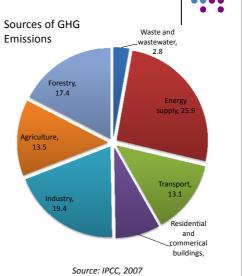
- Forest ecosystems services contribute to resilience and adaptive capacity:
 - Provide safety nets during crisis
 - Potential to mitigate disasters
 - Provide options for alternative livelihoods



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6. Why forests need to be better managed for climate change mitigation

- Deforestation is responsible for as much as 20% of anthropogenic GHG emissions
- Cannot keep climate change below dangerous levels without tackling deforestation (Eliasch 2008)



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7. Where is the finance for adaptation in the forest sector?



- Various sources, such as the Adaptation Fund (2% levy on CDM), and bilateral and multilateral funding, but funding focus is clearly on mitigation.
- Example: Green Climate Fund
 - Formally established during the 2010 United Nations Climate Change Conference in Cancun
 - Aims to raise \$100 billion a year by 2020 for adaptation and mitigation
 - Aims for 'a balanced allocation between adaptation and mitigation' and prioritises 'funding for adaptation . . for the most vulnerable developing countries'
 - But only ~ 14% of pledged funds are for adaptation activities (Bloomberg New Energy Finance 2011)

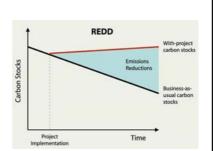
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8. Where is the finance for mitigation in the forest sector?



• REDD+

- The basic concept of REDD+ is that developed countries will pay developing countries for efforts to reduce emissions from deforestation and forest degradation, as well as efforts to increase carbon stocks in existing forests.
- REDD+ provides financial incentives for measurable / verifiable reductions in GHG emission from deforestation & forest degradation and/or increases in GHG removals by standing forests





9. REDD+ financing under

the UNFCCC

- REDD+ will be part of the post-2020 global framework to combat climate change.
- REDD+ must ultimately be implemented at the national level:~40 countries now preparing their national REDD+ systems

Financial support for REDD+ readiness and implementation



Source: Intergovernmental taskforce survey, REDD+ Partnership 2010



10. IGES Community Carbon Accounting (CCA) Project

- Project objective: Develop approaches to engage local communities in monitoring changes in carbon stocks in their forests
- Developmental objectives:
 - Local communities rewarded for protecting and enhancing carbon stocks in their forests
 - Continued provision of forest ecosystems services, which contribute to resilience and adaptive capacity
- Methodology: Action research

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Setting up sample plot, Cambodia



Training community to estimate tree height,

11. Main messages

- Forest management must contribute to local development, mitigation and adaption
- Participatory REDD+ models that build on traditional knowledge and existing capacity and institutions, potentially provide a strong approach for achieving these multiple outcomes.



