Potential Policy Responses to the Underlying Causes of Deforestation

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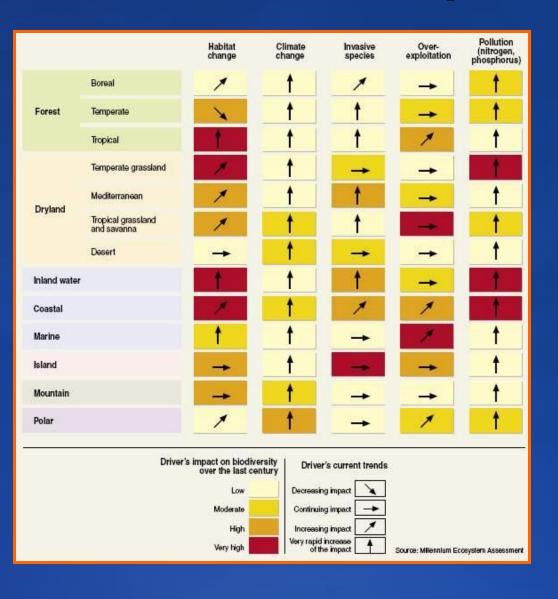
- One of 15 centers in the CGIAR
- Member of the Collaborative Partnership on Forests
- Headquarters in Indonesia and staff based in Brazil, Bolivia, Burkina Faso, Cameroon, Ethiopia, and Zambia
- Research activities in more than 40 countries throughout the tropics



Presentation outline:

- Linkages among deforestation, biodiversity, and climate change
- Causes of deforestation and degradation
- Policy options
- REDD opportunities

Main direct drivers of change in biodiversity and ecosystems



For tropical forests, habitat change has the highest impact and worst trend

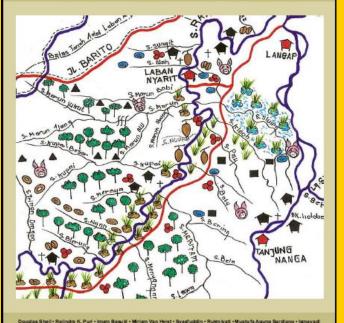
Source:
Millennium Ecosystem
Assessment



Forest biodiversity and human well-being

Exploring biological diversity, environment and local people's perspectives in forest landscapes

Methods for a multidisciplinary landscape assessment

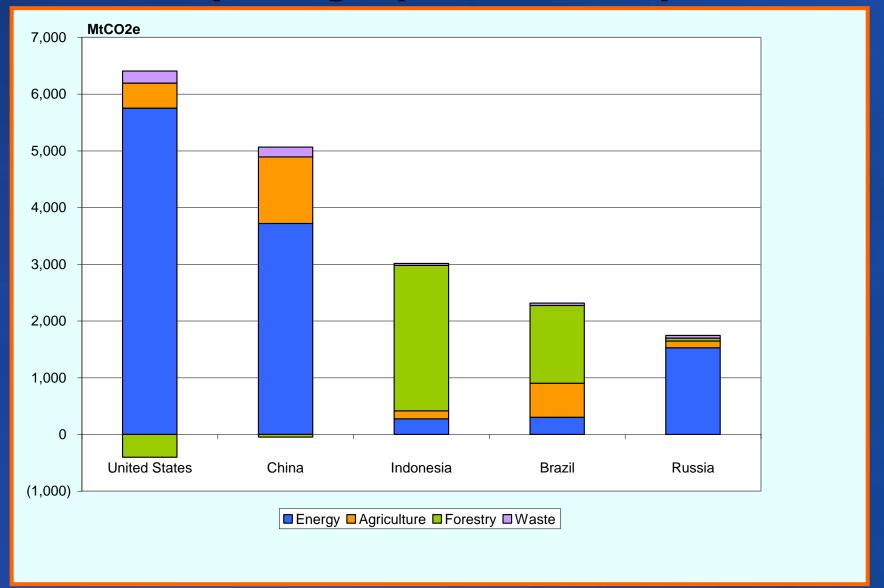


Kade Sidiyasa - Chrisandini - Edi Permana - Eddy Mangopo Angi - Franz Gatzweller - Brook Johnson

Field survey results from 200 plots in East Kalimantan:

- > 2,100 species
- 3,642 specific uses
- 119 non-substitutable

Significance of forests for climate mitigation (Among top five emitters)



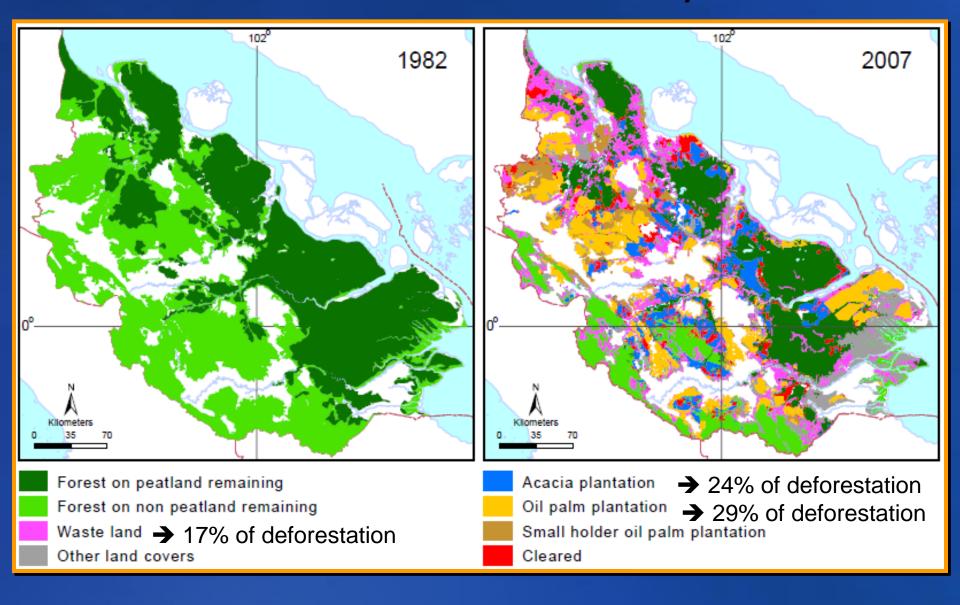


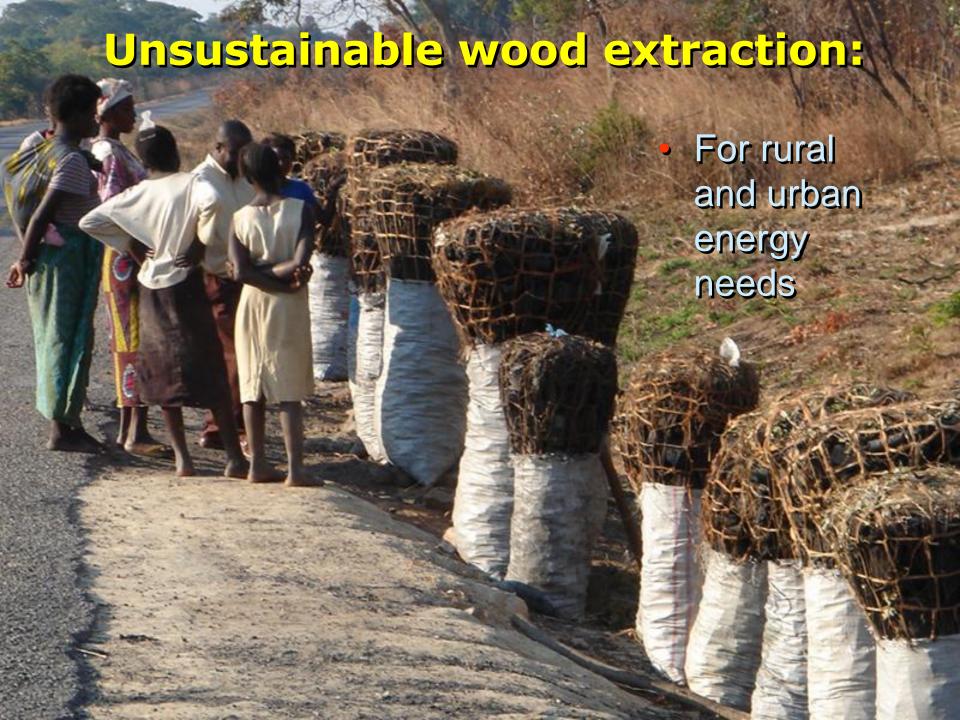
<u>Direct</u> causes of deforestation and degradation:

- Conversion due to agricultural expansion (smallholder farms, ranches, commercial plantations)
- Unsustainable wood extraction
- Infrastructure development



What replaced natural forests? 1982-2007 WWF Land Cover Database Riau, Indonesia





Unsustainable wood extraction:

 Poor logging practices in "legal" concessions

Illegal logging

 Debris left behind fuels forest fires



Infrastructure development, especially road-building

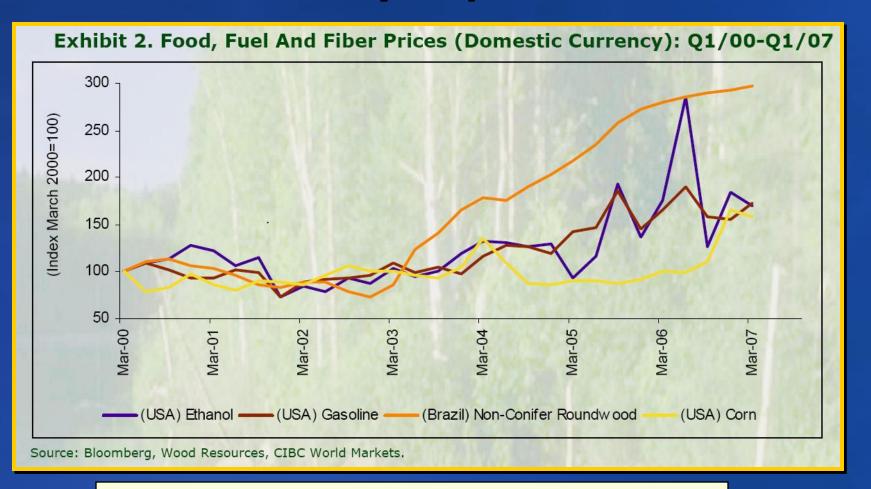


<u>Underlying</u> causes of deforestation and degradation



- Market failures
- Governance failures
- Misguided polices

Upward trends in food, fuel and fiber prices; Biodiversity and ecosystem services still mostly unpriced



Source: Don G. Roberts, Managing Director, CIBC World Markets Inc.
Paper For The MegaFlorestais Working Group Meeting In St. Petersburg, Russia

Governance failures

- Unclear property rights and overlapping jurisdictions
- Non-transparent decision-making
- Weak law enforcement and judicial systems



Example: oil palm development on peatlands

- Market doesn't value elephants or carbon sequestration
- Governance failures allow misallocation of land
- Perverse subsidies to biofuels drive investment
 - Despite significant negative impact on emissions 840 years to repay "carbon debt"







Policy Options:



Do Trees Grow on Money? The implications of deforestation research for policies to promote REDD

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- 1. Economic and financial instruments
 - Remove perverse subsidies
 - Provide positive incentives
- Strengthen direct regulation
- Strengthen governance mechanisms and institutions

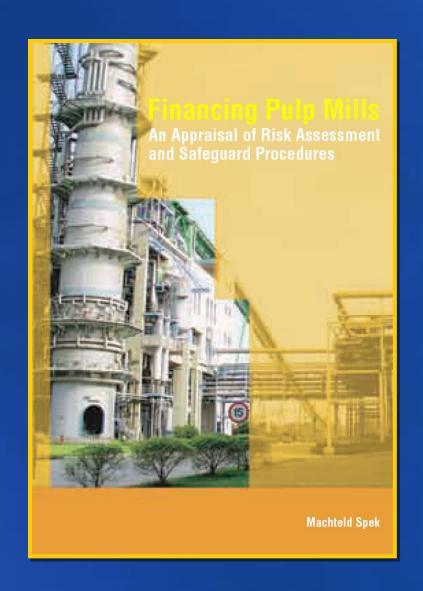
(1a) Eliminate perverse subsidies:

- ...to agricultural expansion that replaces natural forests
- ...to forest industry without a legal and sustainable supply of wood



(1b) Create positive incentives for sustainable forest management:

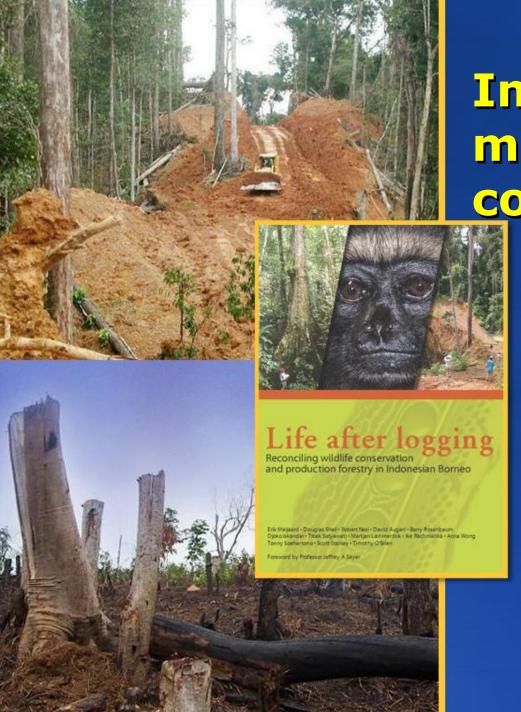
- Access to markets through certification
- Access to finance through increased transparency and compliance with safeguards
- Access to payments for ecosystem services



(2) Strengthen direct regulation:

- Reroute roads away from forest areas vulnerable to conversion or degradation
- Provide adequate support to protected area management
- Improve regulation of production forests
- Strengthen law enforcement (without harming the poor)



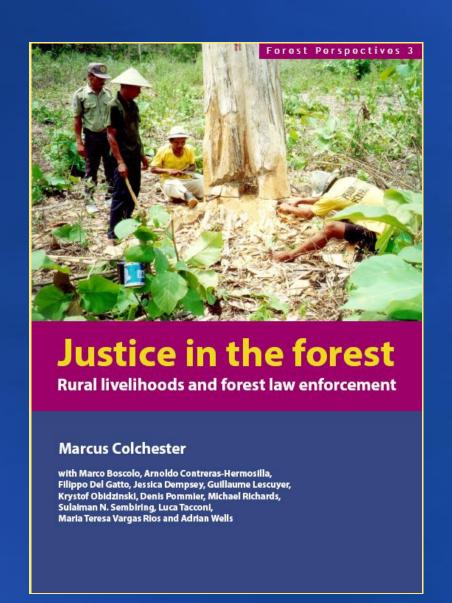


Improve management of concession areas:

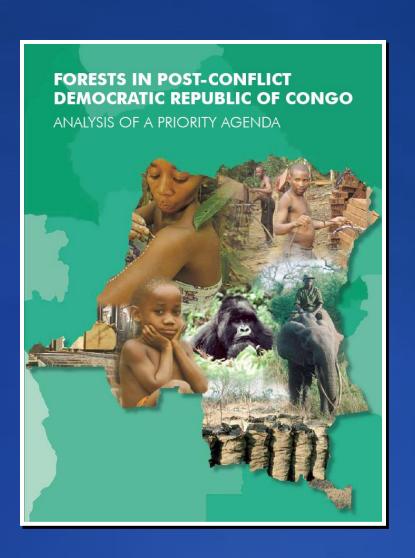
Significant biodiversity benefits can be achieved through improved planning and operational practices

Strengthen law enforcement (without harming the poor):

- Illegal logging "crackdowns" tend to focus on the little guy with the chain saw rather than the big guy with the bank account
- Need to use law
 enforcement tools more
 targeted to the "big guys",
 such as anti-money
 laundering and anti corruption laws



(3) Strengthen governance mechanisms and institutions:



- Clarify tenure and strengthen property rights
- Improve the transparency and inclusiveness of decision-making
- Improve intersectoral collaboration
- Build capacities of local communities and governments
- Example: Post-conflict agenda in the Democratic Republic of Congo

The bottom line:

- Decrease the profitability of activities leading to deforestation and degradation
- Increase the profitability of SFM
- Empower stakeholders whose interests are aligned with SFM

Example: Community-based fire management



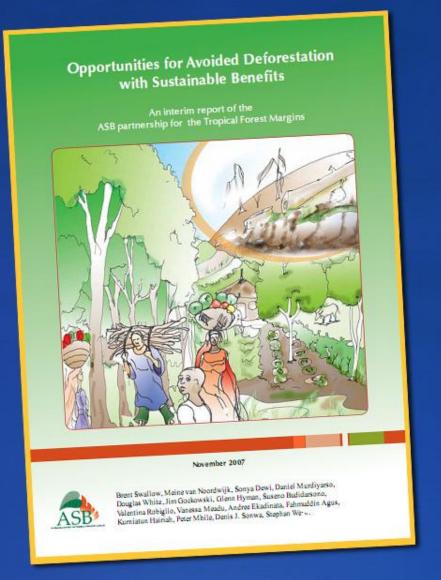




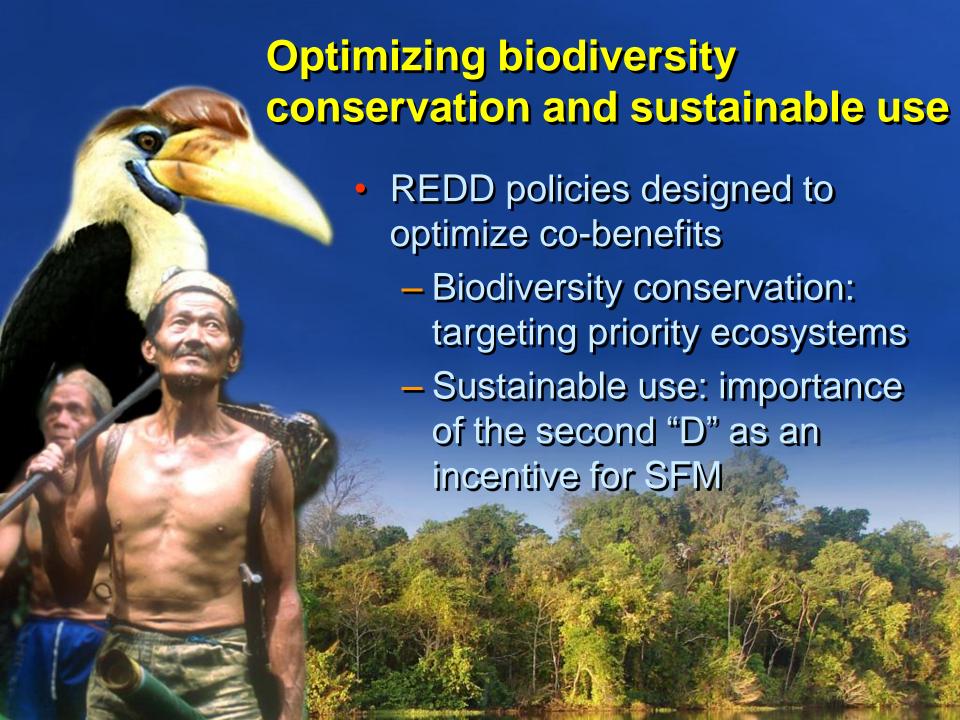


- Volume of finance sufficient to shift the political economy of drivers of deforestation and degradation
- Engagement and political attention at the national level
- Performance-based finance

Good investments available:



- Research shows much forest conversion provides limited economic return
- In some cases, <\$1 per ton of carbon emitted



...but serious challenges ahead

- Need for "REDD readiness": governance mechanisms and institutional capacity
- Need to manage risks and trade-offs
- Need to safeguard legitimacy



Equitable outcomes



Lessons from early PES experience:

Essays

The Efficiency of Payments for Environmental Services in Tropical Conservation

SVEN WUNDER

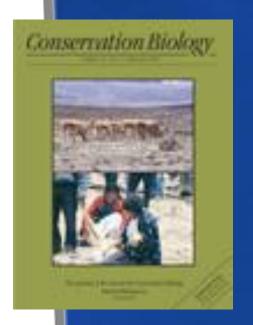
CIP 66.095-100 Below. Brook email s.wunder@egist.org

Abstracts Payments for environmental services (PES) represent a new, more direct way to promote conservation. They explicitly recognize the need to address difficult trade-offs by bridging the interests of landowners and external actors through compensations. Theoretical assessments praise the advantages of PES over indirect approaches, but in the tropics PES application has remained incipient. Here I aim to demyshify PES and clarify its scope for application as a tool for tropical conservation. I focus on the supply side of PES (i.e., bose to convert PES funding into effective conservation on the ground), which until now has been widely neglected. I reviewed the PES literature for developing countries and combined these findings with observations from my own field studies in Latin America and Asia. A PES scheme, simply stated, is a voluntary, conditional agreement between at least one "seller" and one "buyer" over a well-defined environmental service—or a land we presumed to produce that service. Major obstacles to effective PES include demands tile limitations and a lack of supply-side knowbose regarding implementation. The design of PES programs can be improved by explicitly ostilining baselines, calculating conservation of portunity costs, customizing payment modulities, and largeting agents with credible land claims and throats to conservation. Expansion of PES can occur if schemes can demonstrate clear additionality (i.e., incremental conservation effects visit via prodefined baselines), if PES weiplents livelbood dynamics are better understood, and if efficiency goals are balanced with considerations of fairness. PIS are arguably best suited to scenarios of moderate conservation opportunity costs on marginal lands and in settings with coverging, not yet realized throats. Actors who represent credible throats to the environment will more likely receive PES than those already living in harmony tolib nature. A PES scheme can thus benefit both buyers and sellers tebrile improving the resource base, but it is saddedy to fully replace other conservation bestruments.

Keywords: economic incentives, integrated conservation and development projects, landowner compensation, stewardship

La Eficiencia de los Pagos pot Servicios Ambientules en la Conservación Trópicos

Resumen: Los pagos por servicio ambientales (PSA) representan una forma nueva y más directa pasa promoces la conservación. Explicitamente reconocen la necesidad de abordar las rentajas los unde offs los intereses de los propietarios de tierra y de los actores externos mediante compensaciones. Las essituaciones a constant les constrios de PSA en relación con métodos indirectos, pero la aplicación de PSA en los Likely tradeoffs between efficiency and equity



Discussions at "Forest Day" illuminated areas for consensus-building and research:

- Better data and methods
- Role of markets
- Managing trade-offs







Optimizing REDD: An opportunity for collaboration between CBD and UNFCCC



united nations climate change conference



