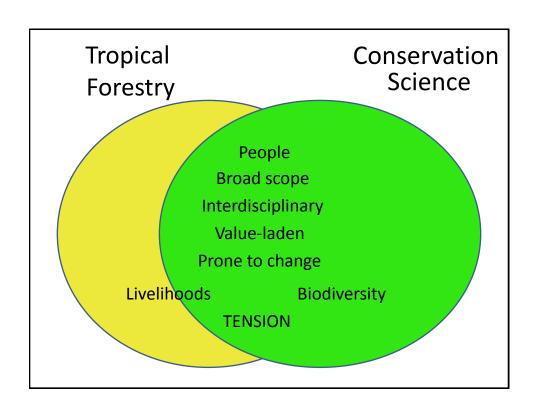
Can tropical forestry bring lessons to conservation science?



Michelle Pinard Institute for Biological and Environmental Science, Aberdeen Centre for Environmental Sustainability University of Aberdeen





TENSION





First part of talk

 What are roots of tensions between foresters and conservation scientists?

logging = deforestation

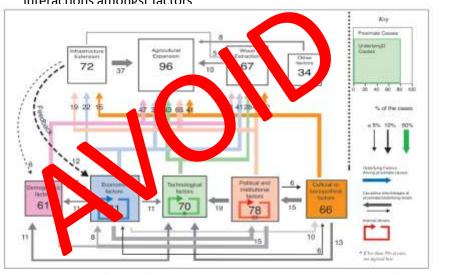
sustainable forest management = timber mining

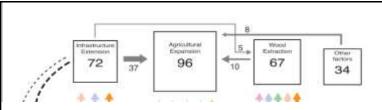
Deficit model – how science influences policy and opinion



Drivers of tropical deforestation

- Geist and Lambin (2002) BioScience 52 (2): 143-150.
 - looked at 152 published case studies (1940-1996), frequency of causes, interactions amongst factors





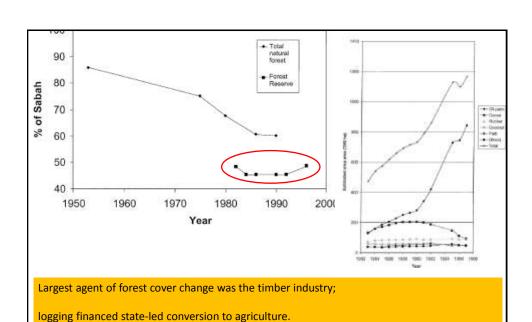
Commercial wood extraction

Logging plays a part, but mainly through interactions with other direct drivers

52% (all regions) 78% (Asia) 26% (Africa) 40% (Latin America)

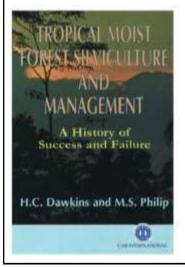
230

Underlying drivers: policies, economics, institutional failure



McMorrow & Talip (2001) Decline of forest area in Sabah, Malaysia: relationship to state policies, land code and land capability. Global Environmental Change 11: 217-

Do we know how to manage tropical forests sustainably?



Yes

"The main message . . . is that natural forest management can be done; conservation and production are not incompatible.. . . p312

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Is there a place for Sustainable Forest Management?

Yes

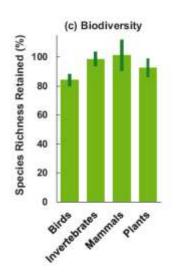
We know how

Logged forest have high conservation value

Progress with forest law enforcement, governance and trade

Use it or lose it

Putz et al. (2012) Cons Letters



Is there a place for Sustainable Forest Management?

No

Multi-national corporations have little interest in local sustainability

Shearman et al. 2012 Biol Cons doi: 10.1016/j.biocon.2011.10.036

Assumes no regulations

No

"little or nothing is known about specific autecological characteristics of the timber species to be managed . . . "p 479

Zimmerman and Kormos (2012) BioScience 62 (5): 479-487

Re-interpretation of published studies



"If they only understood . . . if only they knew what we know"

Deficit model

- rationale role of knowledge
- science provides neutral expertise
- facts and values distinct



Message from first part

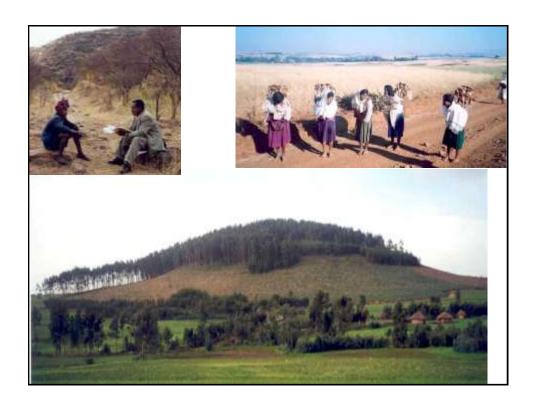
- SFM is not same as timber mining but requires that some conditions are met (rules).
- "facts" can be interpreted in different ways

 Chan et al. 2007 Cons Bio 21 (1): 59-68.
- Don't assume lack of uptake is due to lack of understanding or awareness

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Second part of my talk

 In forestry, often some values and perspectives are privileged over others





Some practices okay, some not okay









- Value-laden terms
 - Forest loss, degradation
 - Land improvement
 - Pristine



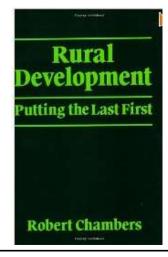
- From whose perspective are we valuing the resource, is conservation more important than social justice?
- Costs and benefits of decisions are unequally distributed

Lele & Kurien (2011) Environ Cons 38 (2): 211-233.

Messages from second part

Our experience and perspective influence what we value, what we see, what we measure.

Knowledge exchange and self-reflection can help.



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Third part of my talk

Is community forestry the answer?

Ecological sustainability

Local community benefits

Some responsibility and authority in community





Tole (2010) Environmental Manage. 45: 1312-1331.

Charnley & Poe (2007) Annu. Rev. Anthropol. 36: 301-336.

Porter-Bolland et al. (2012) For Ecol Manage. 268: 6-17.

Need to connect people, groups, organizations

- Deliver services to users that want them















Need to connect people, groups, organizations

- Give voice
- Governance structures
- Share experience and knowledge









Conservation and Livelihood Indicators

Local Natural Asset

Availability of Non-Timber Forest Products
Availability of Bushmeat . . .

Global Natural Asset

Population of elephants Level Cachety or local NGOs

Population of gorilla Corrupt on in public & private sectors

Human Assets

Physical Assets

Number of asava halfs Access to health care Quality of hoping... Quality of education...

Sayer et al. (2012) International Forestry Review 14(1): 90-98.

Conservation and Livelihood Indicators

Local Natural Asset

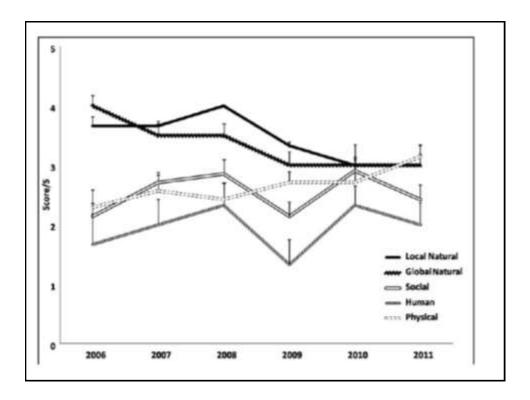
Availability of Non-Timber Forest Products Availability of Bushmeat . . .

Global Natural Asset Social Assets

Population of elephants Level of activity of local NGOs

Population of gorillas Corruption in public & private sectors

Sayer et al. (2012) International Forestry Review 14(1): 90-98.



Messages from third part

- Experience with community-based forestry mixed, context specific, rules are important
- External factors influence community-based organisations as well as industry
 - Sometimes positive, sometimes negative, unpredictable
- Importance of loose linkages (vertical and horizontal)

Take home message

- Self-reflection important
- Partnerships and friendships are important
- Need to work at multiple scales to address complex problems



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