

# LA·F·ORE·T

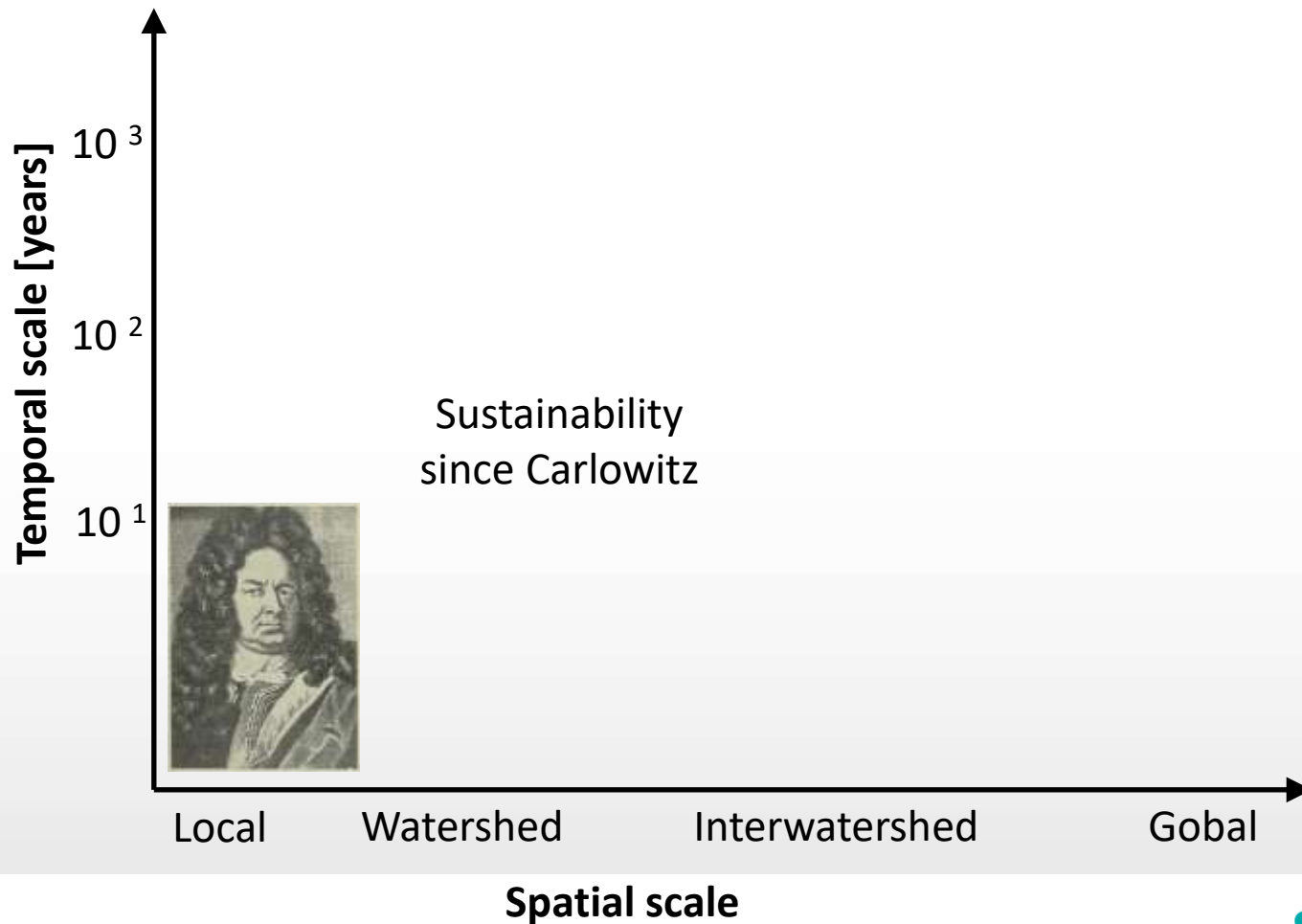
LANDSCAPE FORESTRY IN THE TROPICS

Sven Günter , Richard Fischer, Melvin Lippe, Jobst-Michael Schröder, Anastasia Yang, Eliza Zhunusova  
Thünen Institute of International Forestry and Forestry Economics, Hamburg, Germany

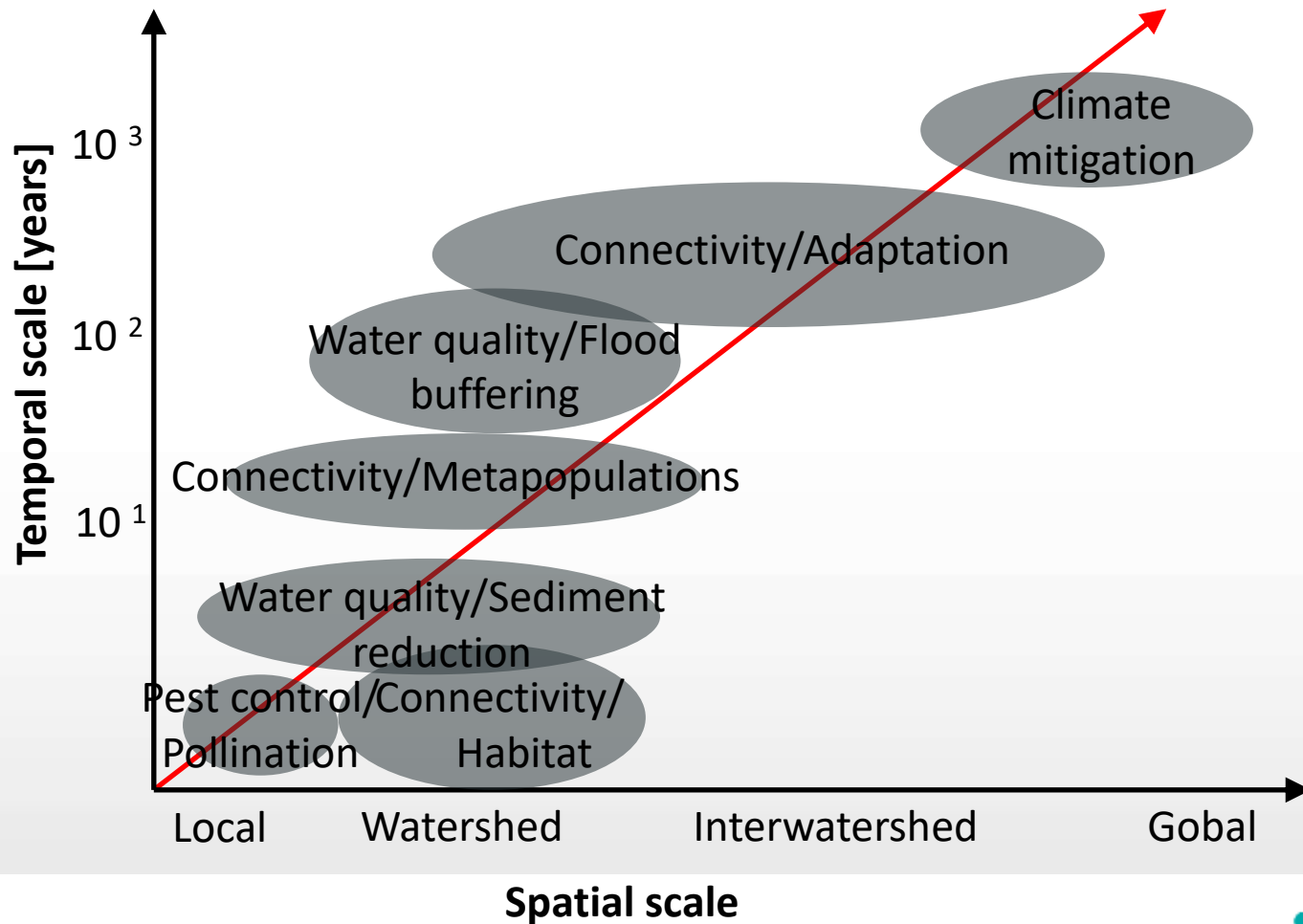


Bangkok, November 15th, 2018

# From timber exploitation to management of ecosystem services

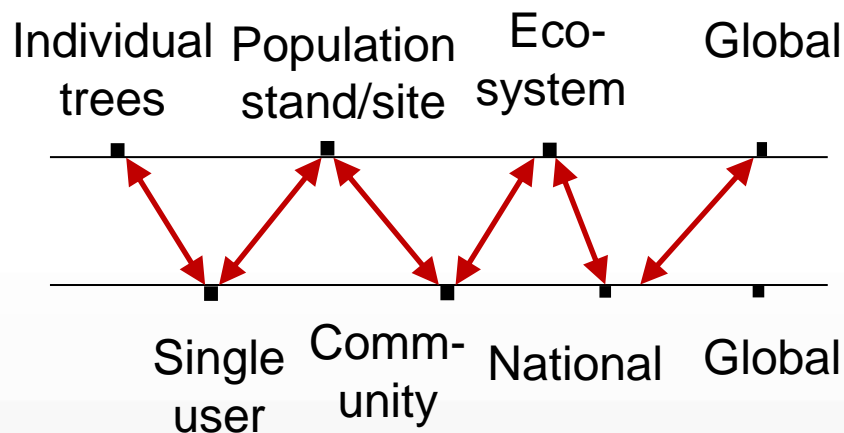


# From timber exploitation to management of ecosystem services



# Ecological and societal dimensions: mismatch of scales

## — Ecological scales (ES producing dimension) →

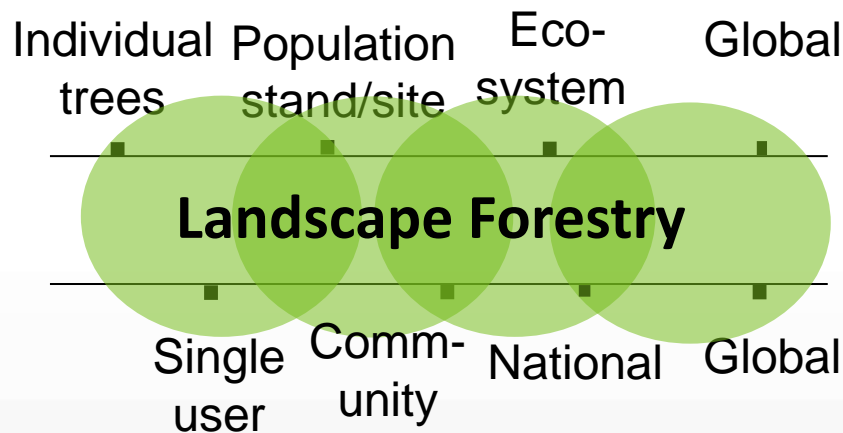


**Mismatch of ecological and social scales**  
**Overlapping and conflicting interests of stakeholders**

## — Social scales (ES consuming dimensions) →

# Landscape forestry: combining scales and dimensions

## — Ecological scales (ES producing dimension) →



**Hierarchical and nested approach**

**(adaptive management across scales, panarchy)**

## — Social scales (ES consuming dimensions) →



Ecosystems Research  
and Development  
Bureau



# LA·F RE·T

## LANDSCAPE FORESTRY IN THE TROPICS

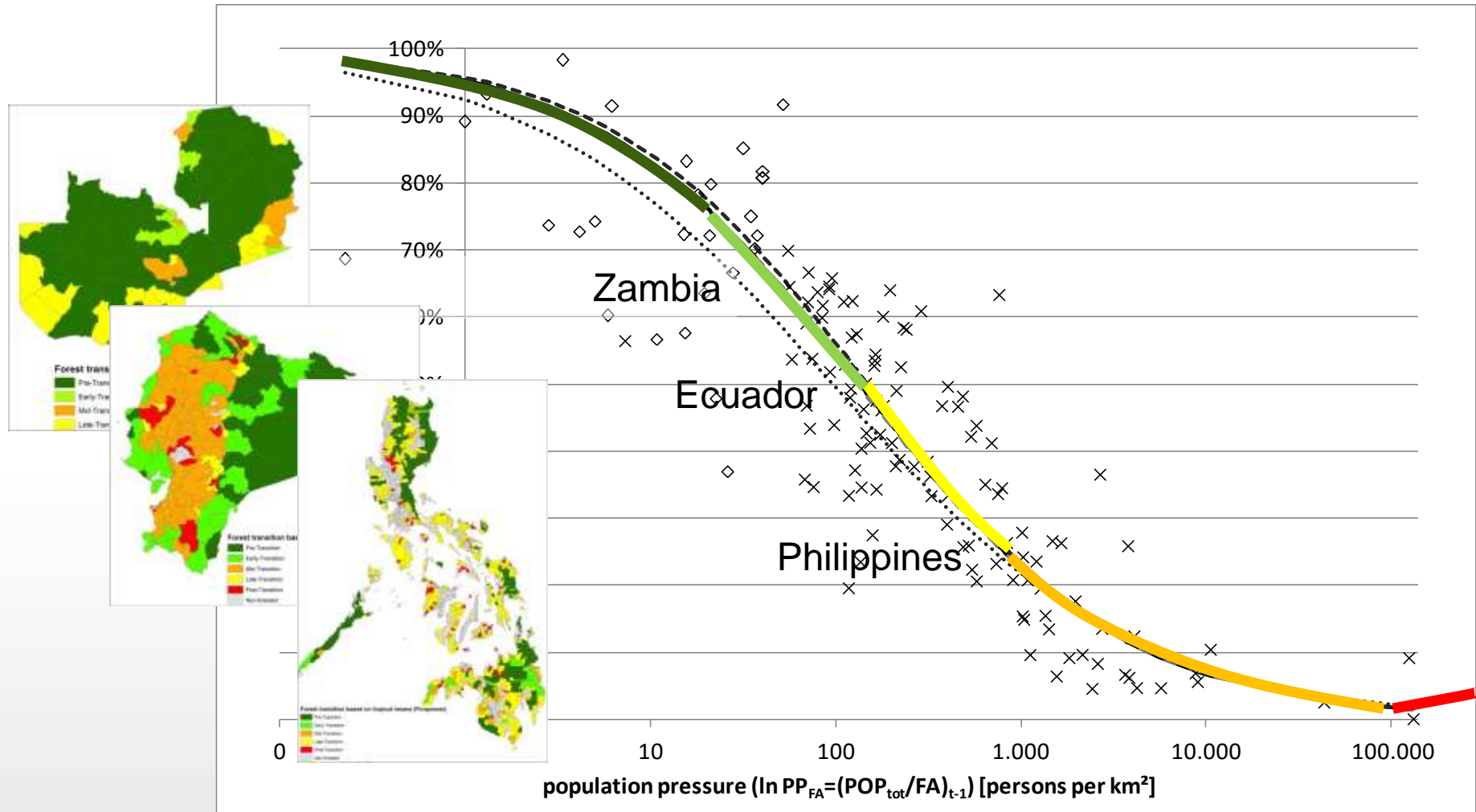
**Towards policy approaches for improving livelihoods, sustainable forest management and conservation**

Formal and informal regulations  
+  
Incentive systems



Reducing deforestation  
Fostering reforestation and restoration  
Improving Livelihoods

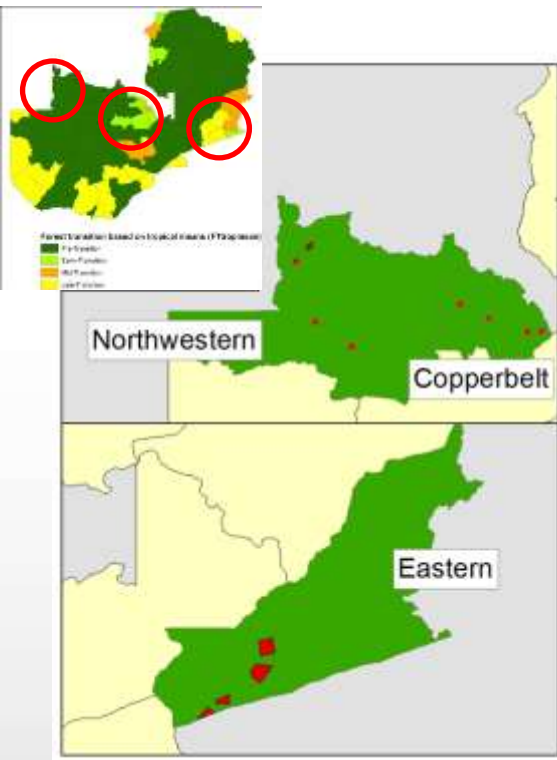
# Forest transition hypothesis (FTH) as cross cutting theme



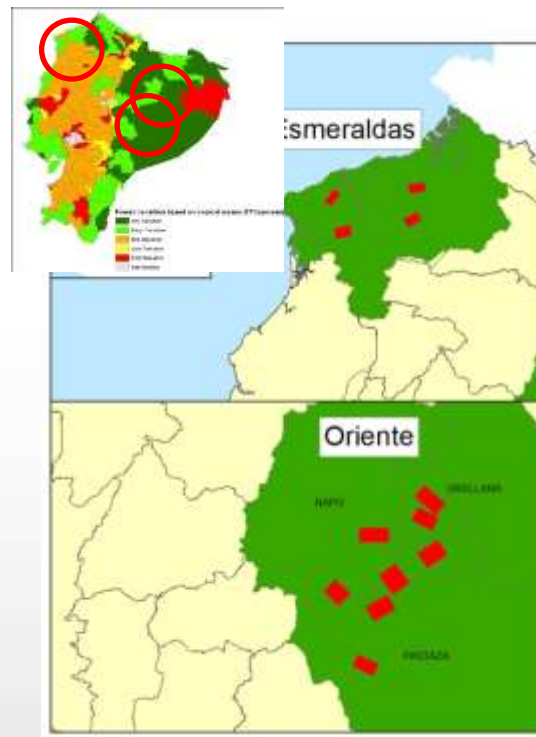
# Forest transition contexts in Ecuador, Zambia and Philippines as strata for assessment

36 landscapes across different tropical continents, countries and forest transition contexts

## Zambia



## Ecuador



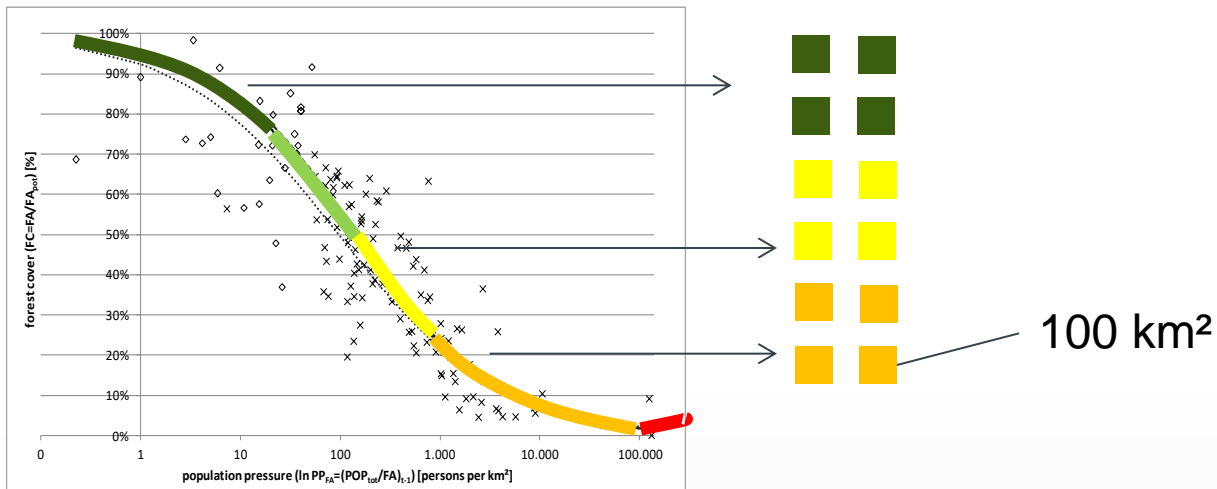
## Philippines





# Combination of scales: forest transition hypothesis from global to national and local level

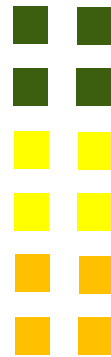
**12 landscapes per country with different forest transition context**



# Combination of scales: forest transition hypothesis from global to national and local level

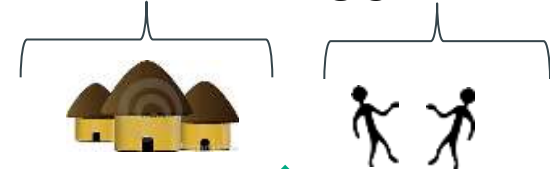
**12 landscapes per country with different forest transition context**

- Ca. 500 plots
- Ca. 4000 interviews
- Ca. 60 communities and participatory workshops
- Satellite image analysis

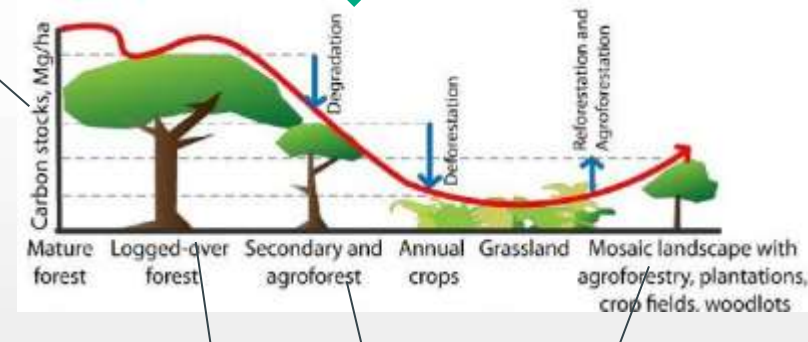


**-Primary forest**  
**-Degraded natural**  
**-Fallow/succession**  
**-Planted/Agroforestry**

**Governance and PES**  
**Livelihoods**  
**Opportunity costs, LUC**



**Cause-effect relationships**



**Sample plots for assessment of forestry potential and ecosystem services**

# Organisation workpackages and countries

## Sozioecological Systems



## Land use simulation modelling



GIS + Drivers of  
deforestation



ES from forest  
and land use



Livelihoods  
and  
opportunity  
costs



Governance



Payments for  
Ecosystem  
Services (PES)



Ecuador: Universidad Estatal Amazonica, Universidad Luis Vargas Torres  
Philippines: Visayas State Univ., Isabela State Univ., Univ. Philippines Los Banos, ERDB,  
Zambia: CIFOR, Copperbelt University

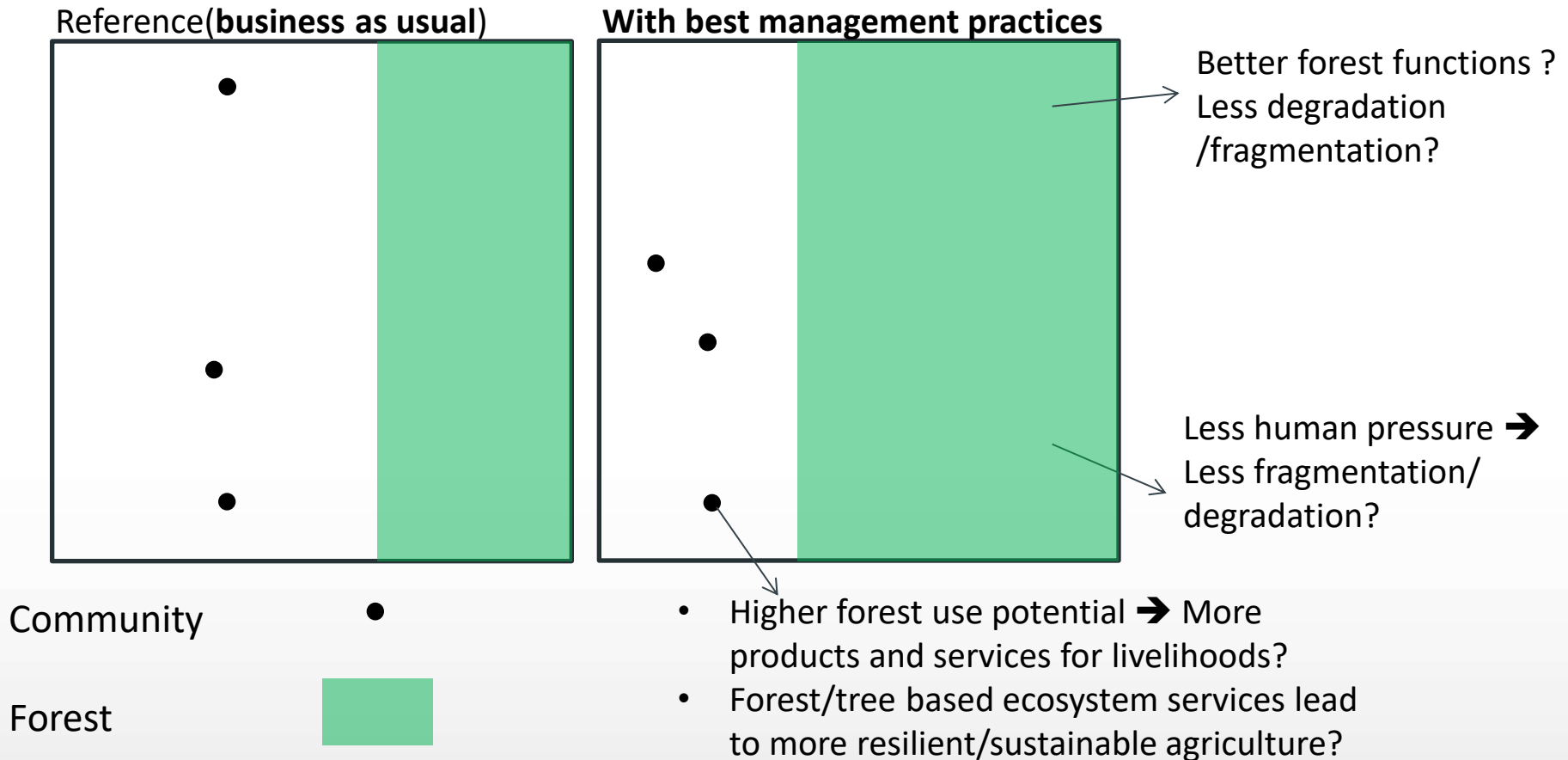
# Thank you!



[sven.guenter@thuenen.de](mailto:sven.guenter@thuenen.de)  
[www.la-foret.org](http://www.la-foret.org)

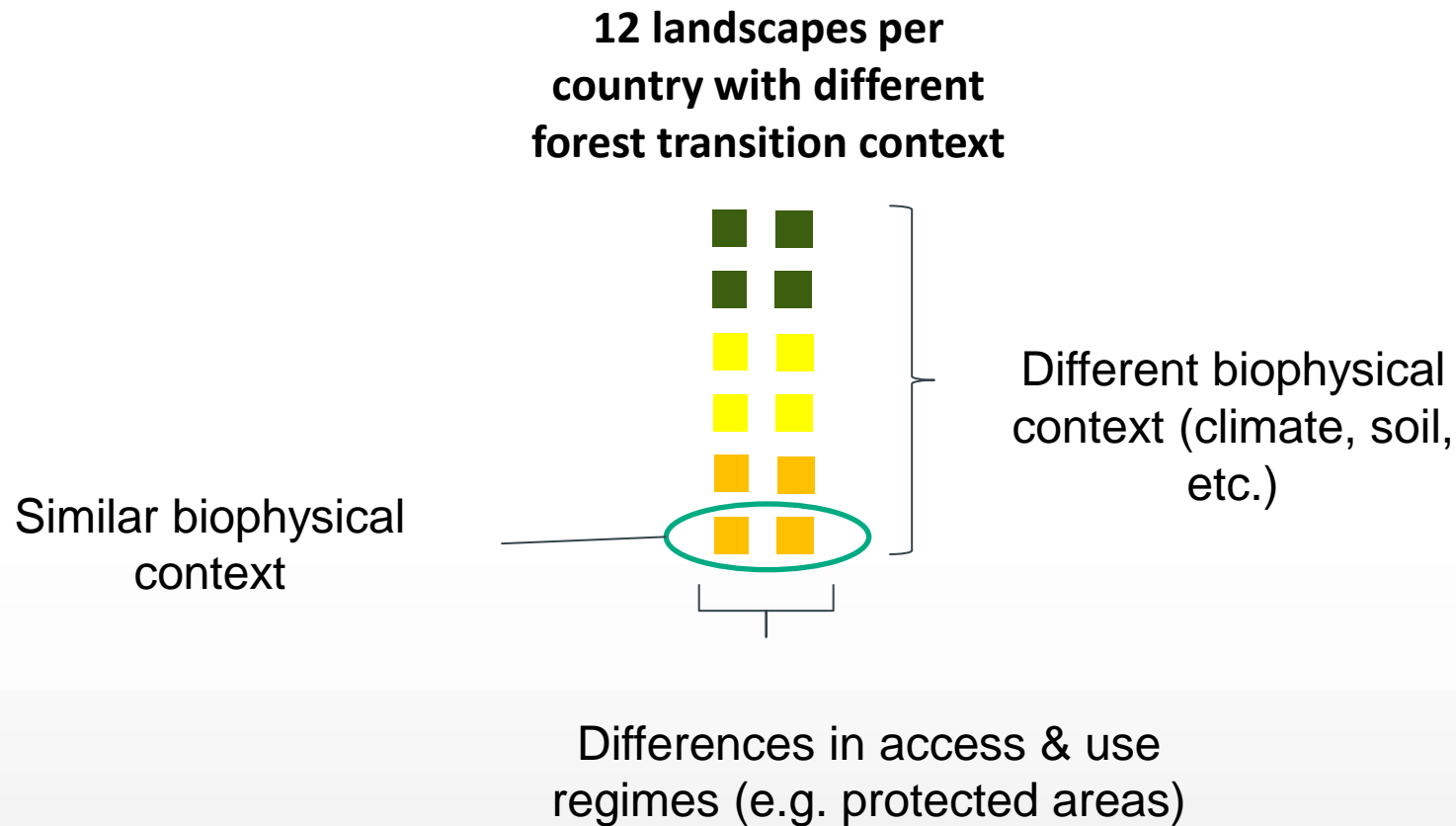


# Outlook: Design is adjustable to focussing on restoration in Africa: best management practices vs. business as usual?

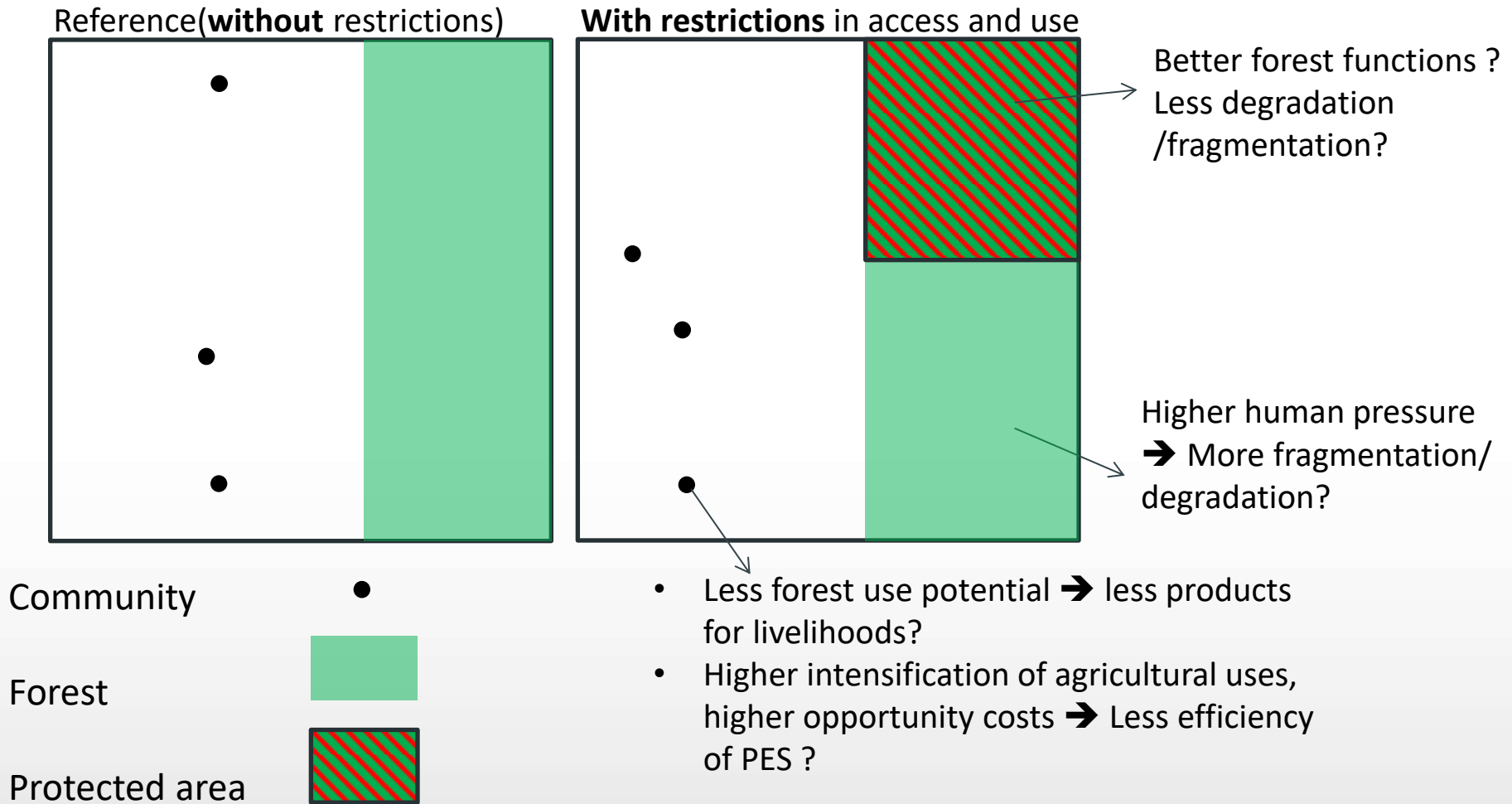




# Forest transition context and access & use regimes as experimental factors



# Blocked landscape design of access & use regimes and related research questions



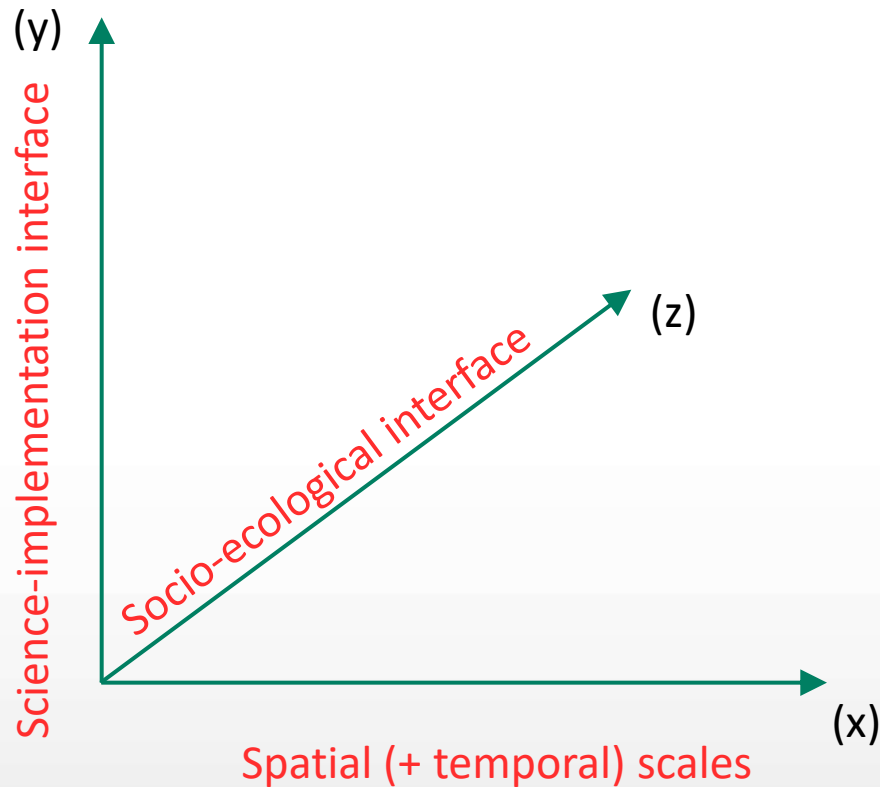
# What is the problem?

**Mismatch of provision and demand**

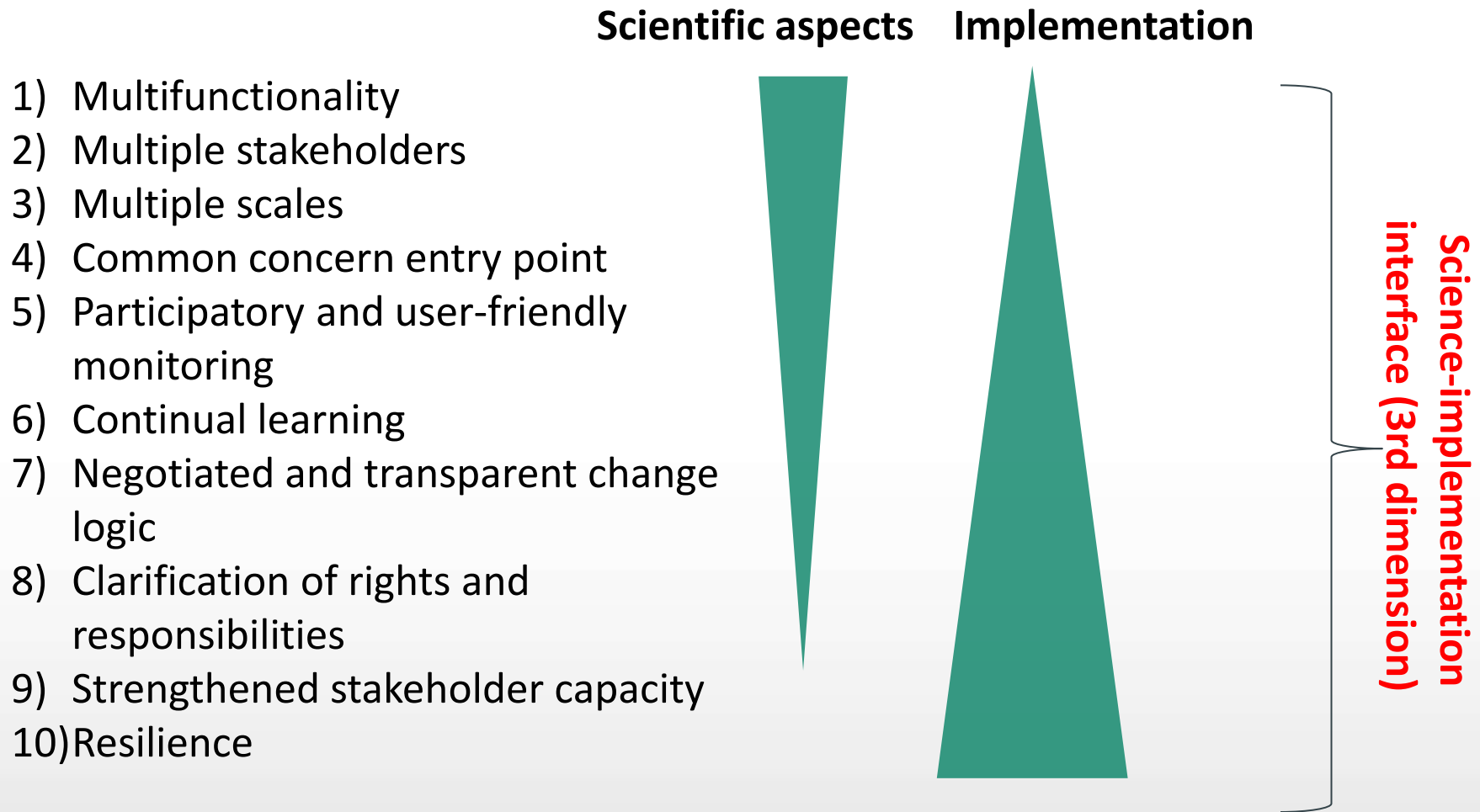




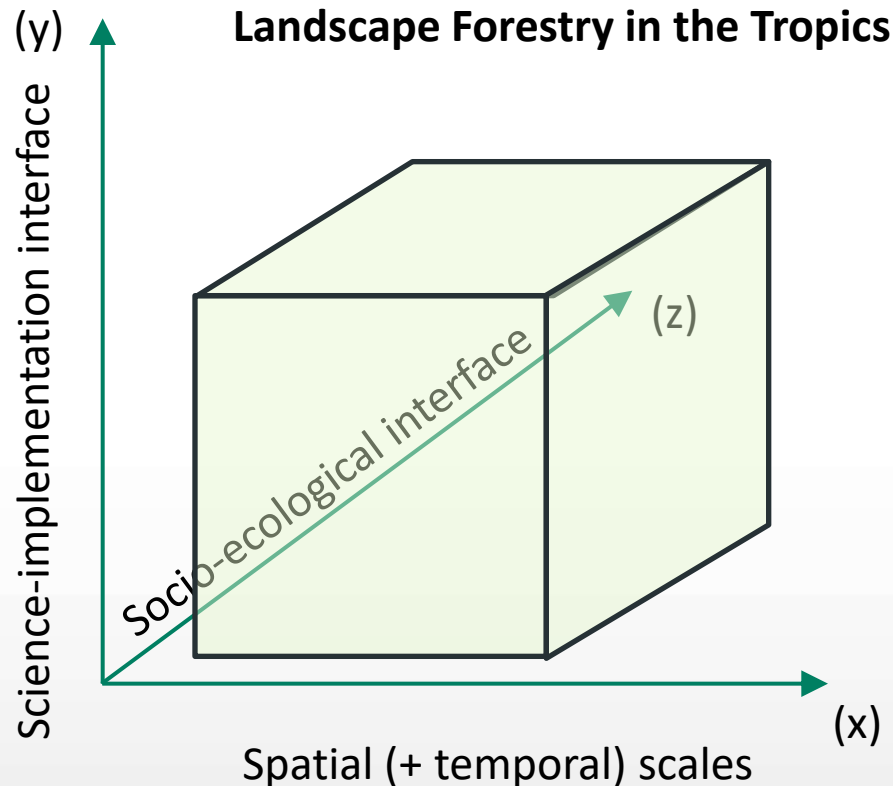
# Landscape Forestry: Combining three dimensions



# Ten principles for a landscape approach (Sayer et al. 2013)



# Landscape Forestry: Combining three dimensions



# What is the problem?



Prioritisation of ecosystem services and timing



Spatial allocation of ecosystem services?

# LaForeT: conceptual structure

