

INTERLAKEN+10 - Governing forest landscapes

3rd to 6th February 2015 in Interlaken, Switzerland

as part of

Forest landscape governance and green economy: *Lessons learnt from ten years of experience and the way forward post-2015*



Meine van
Noordwijk



RESEARCH
PROGRAM ON
Forests, Trees and
Agroforestry

Forestry Institutions

Keeping **enough** forest is a legitimate goal in itself

Goals

Universality

Means of Verification



Common But Differentiated Responsibility (CBDR)

Means of Implementation

Carrots, Sticks & Sermons

Forest & trees are a good way to achieve SDG's
Rest of the World



Lessons learnt

- Landscapes exist as intermediate-scale socio-ecological systems, between 'livelihoods' & 'governance'
- Current landscape configuration often is sub-optimal response to multiple drivers
- Landscape democracy can support multifunctionality
- Clear indicators for monitoring and evaluation are hard to achieve, but essential

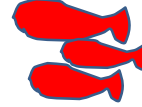
and way forward



Theory of Change

REDD+ will provide sufficient financial incentives to secure conservation of most of remaining tropical forests via the invisible hand of market-based instruments that exceed benefits derived from business as usual

Red herrings



Discordant information



Paradigm shift








Black Swan



Change of Theory

Forest change is primarily driven by processes and actors outside the forestry sector and change at landscape-to-global scales will have to be part of wider SDG & green economy debate

Red herrings? In ETFAG talk MvN 2014

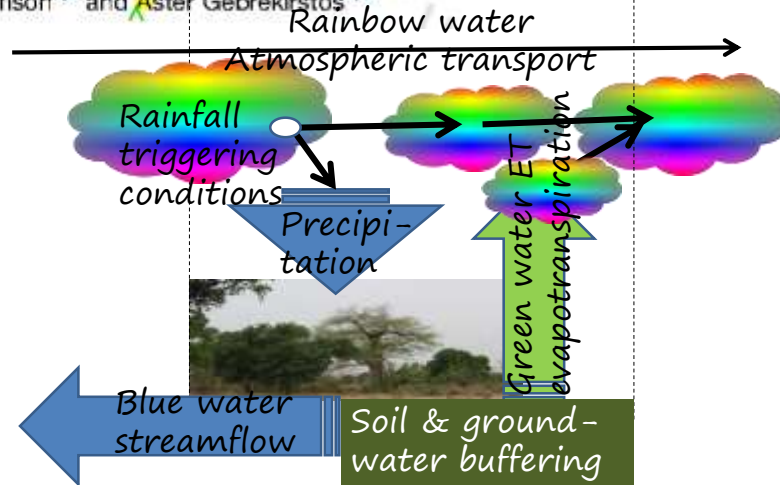
-  • Current progress in key landscapes relates to 'consumer pressure' and 'shame' rather than positive financial instruments to change local behaviours
-  • Forest is not a sufficiently operational term to allow effective policies to emerge
-  • REDD+ can function as part of land-based NAMA's, not as stand alone; mitigationadaptation synergy helps
-  • The tree cover (forest) climate relationship needs to zoom in on hydroclimates beyond current carboclimate focus; teleconnections become tractable
-  • A cross-scale combination of 3 PES paradigms is feasible and may combine fairness & efficiency

Black Swans? Your call



Pricing rainbow, green, blue and grey water: tree cover and geopolitics of climatic teleconnections[☆]

Meine van Noordwijk¹, Sara Namirembe¹, Delia Catacutan¹,
 David Williamson^{1,2} and Aster Gebrekirstos^{1,3}



Continental precipitation recycling ratio ρ_c

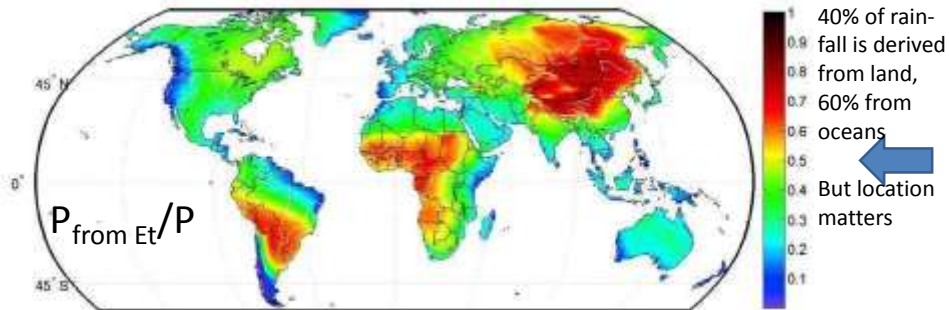


Figure 3. Average continental precipitation recycling ratio ρ_c (1999–2008).

van der Ent RJ, Savenije HHG, Schaeffli B, Steele-Dunne SC, 2010. Origin and fate of atmospheric moisture over continents. Water Resources Research 46, W09525,

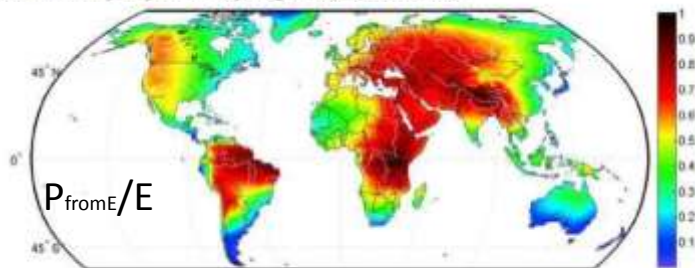
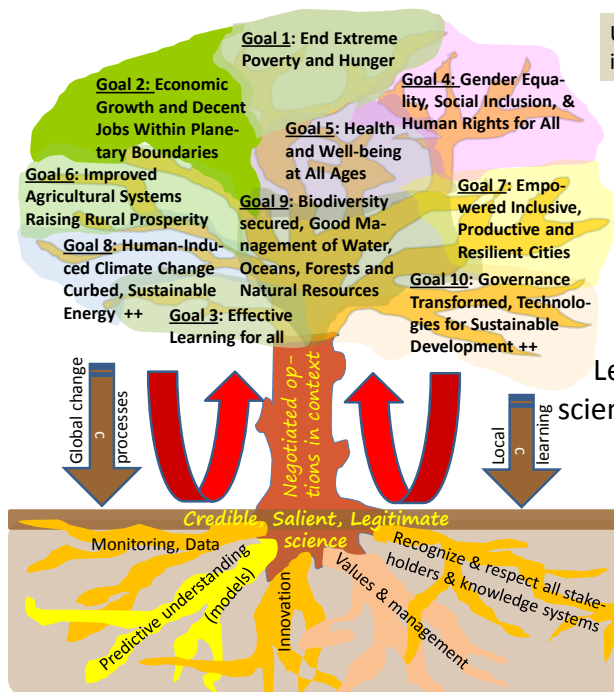
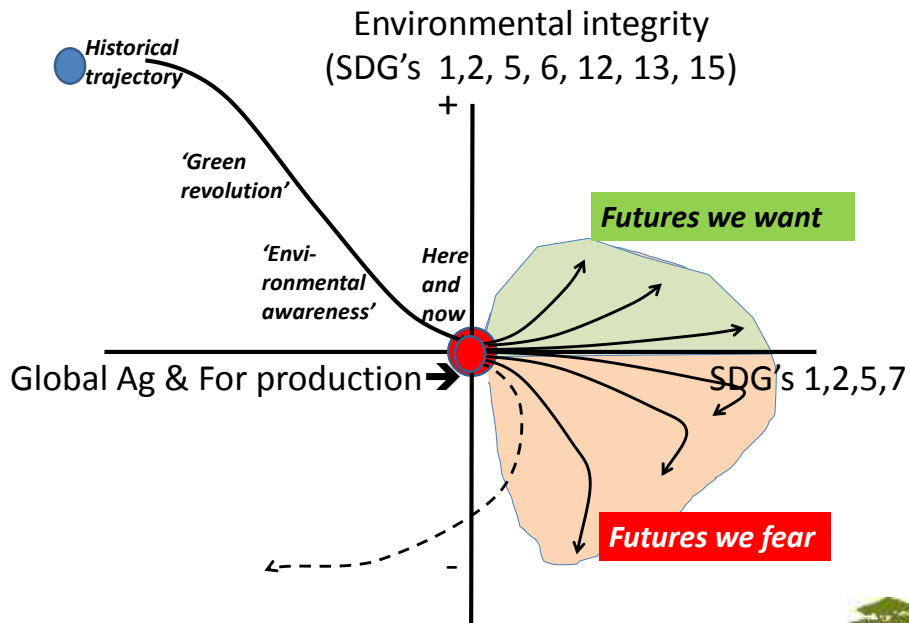


Figure 4. Average continental evaporation recycling ratio ε_c (1999–2008).



Using '10 SDG format' proposed in Nov 2014 but not accepted

Our forests, trees and agroforestry have a key role in achieving sustainable development goals coherently

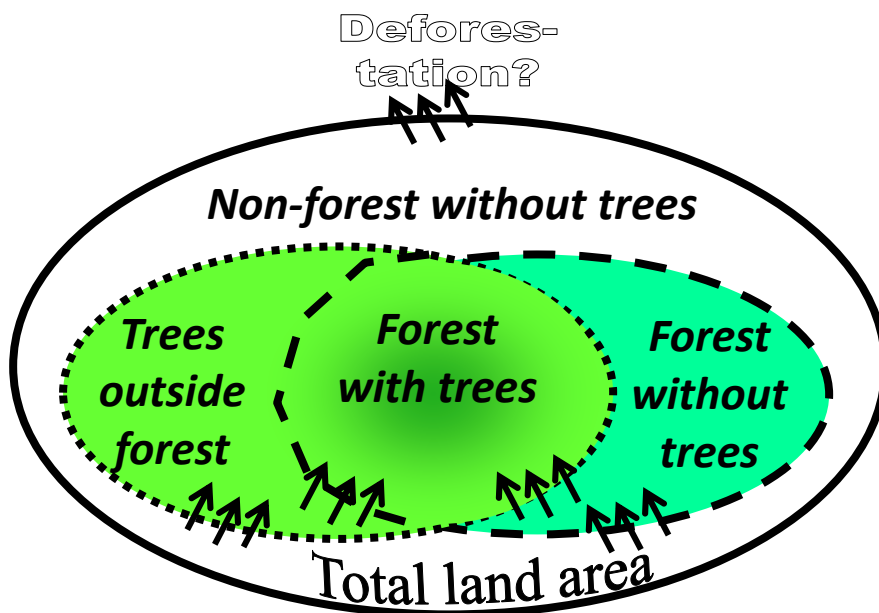
Learning, knowledge and science is essential to progress

Landscapes

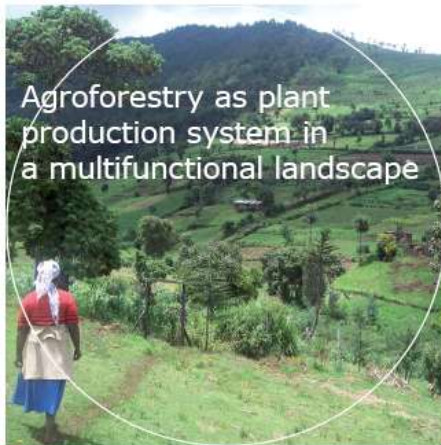
- Landscapes are not 'just' mosaics of multiple land covers and land uses,
- They are a space within which livelihoods used to run their course,
- They include aspects of identity, pride and concern and have (some) social coherence

Landscape approaches are

- Attempts to reconcile local and external perspectives on desirable landscape outcomes
- Usually have a 'negotiation' dimension within a 'learning landscape' context



<http://blog.worldagroforestry.org/index.php/2013/04/08/tif-tof-and-totof-trees-or-universal-tree-rights/>

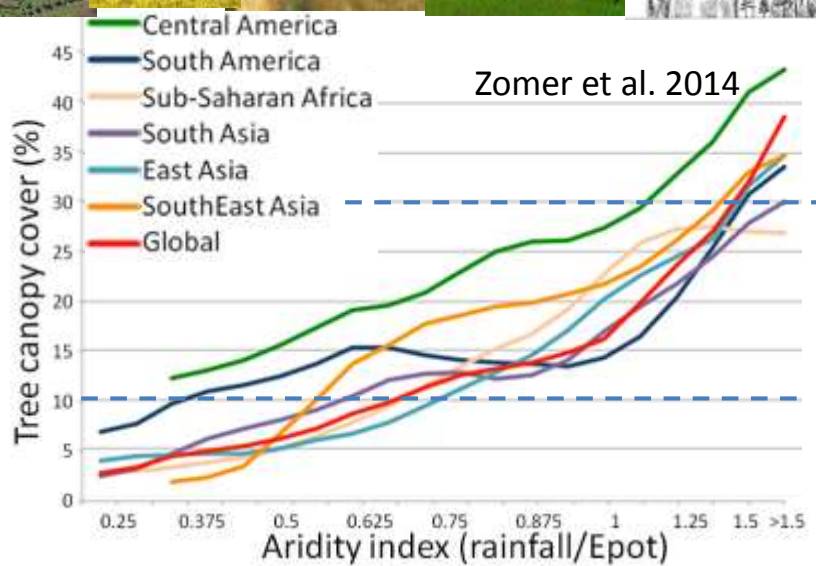
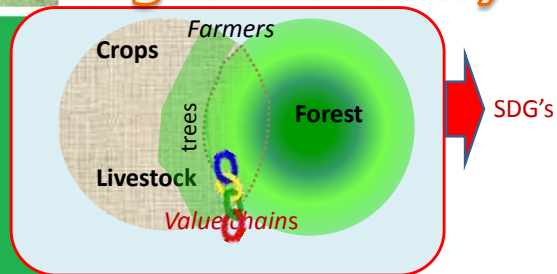


Prof. dr Meine van Noordwijk

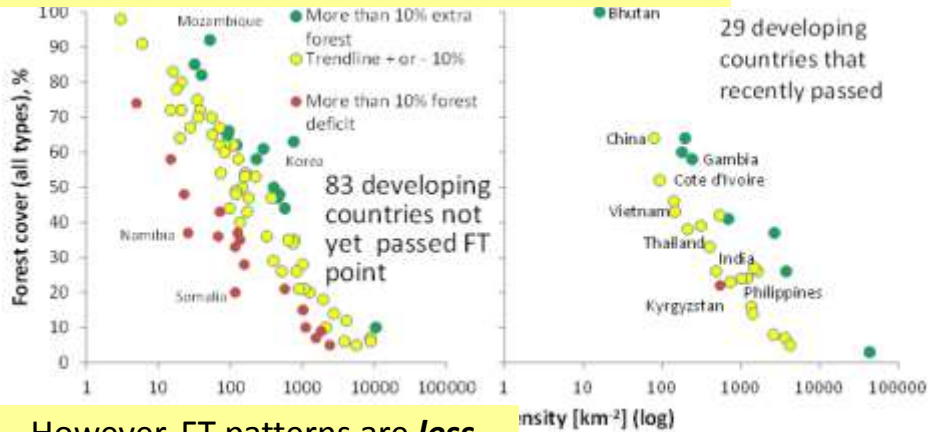
Inaugural lecture upon taking up the post of Special Professor of Agroforestry at Wageningen University on 16 October 2014



WAGENINGEN UNIVERSITY
WAGENINGEN

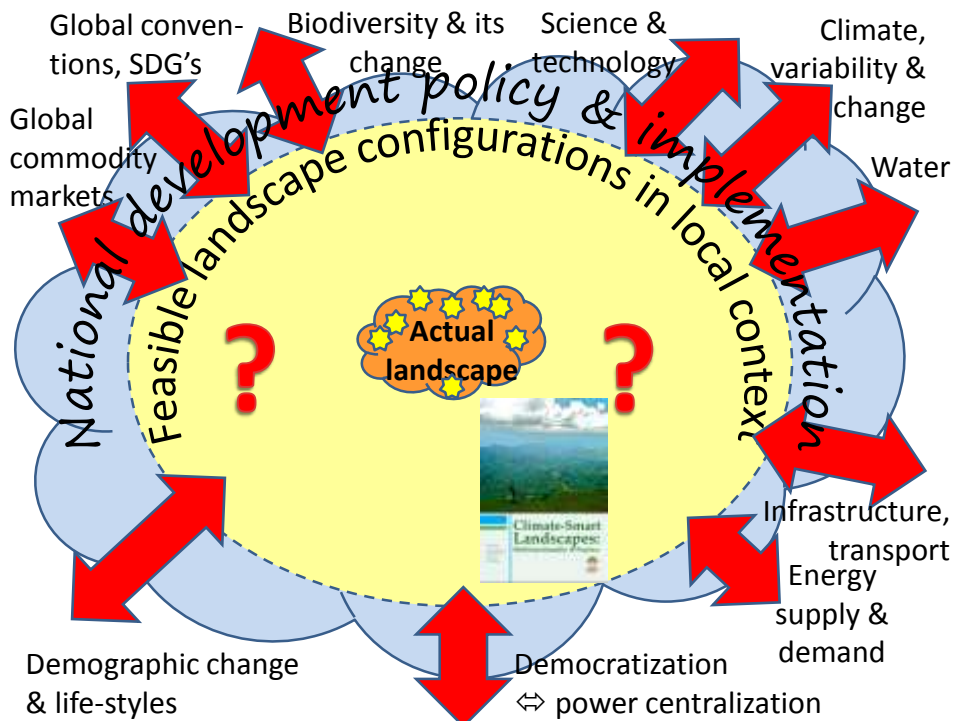


Forest Transition (FT) points can occur at any population density and degree of forest cover

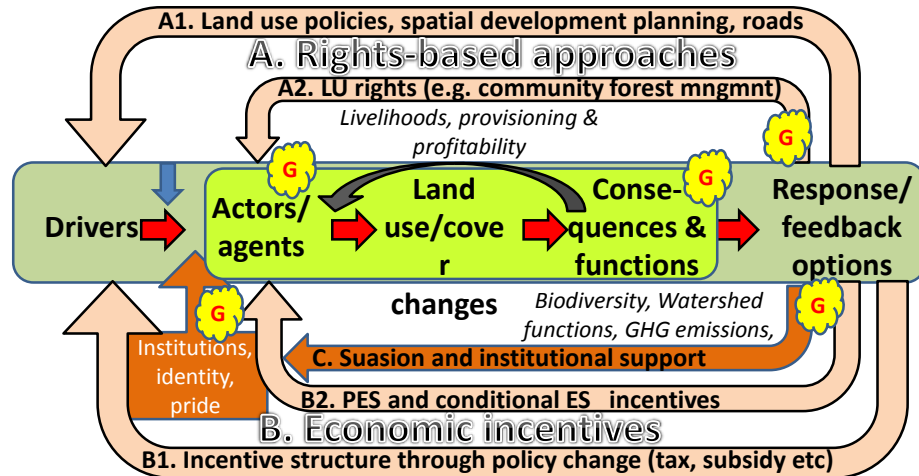


However, FT patterns are *less* likely in countries that have more than **10% forest deficit**

Tree cover transitions in tropical landscapes: hypotheses and cross-continental synthesis. Meine van Noordwijk and Grace B. Villamor, 2013. GLP Newsletter Issue No. 10.

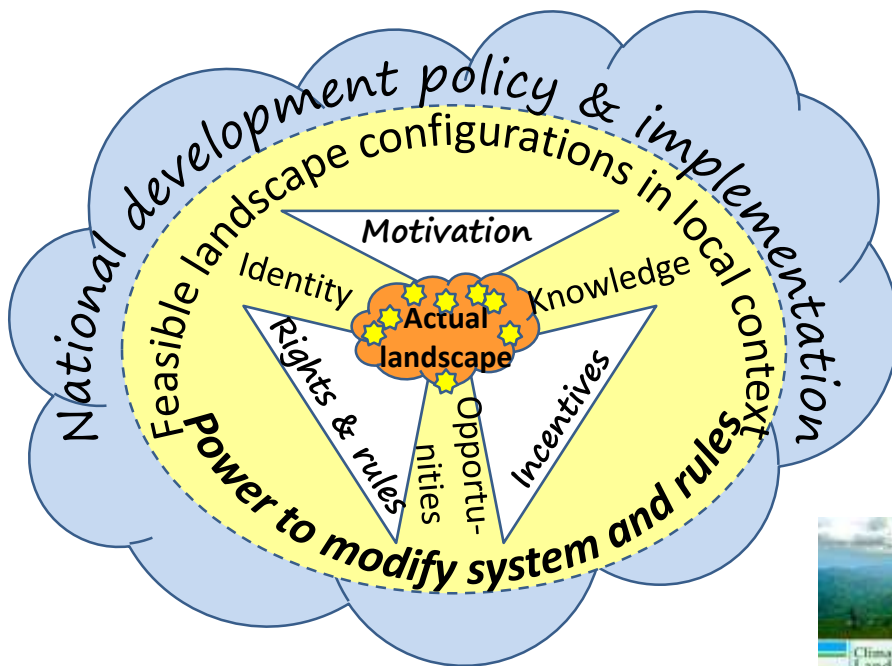


Carrots, sticks & sermons



= Potential gender specificity of analysis & targeting of interventions

Modified from: Van Noordwijk, M., B. Lusiana, G. Villamor, H. Purnomo, and S. Dewi. 2011. Feedback loops added to four conceptual models linking land change with driving forces and actors. *Ecology and Society* 16(1): r1. [online] URL: <http://www.ecologyandsociety.org/vol16/iss1/resp1/>





Ecosystem Services

Volume 12, April 2015, Pages 16–28



Fairly efficient, efficiently fair: Lessons from designing and testing payment schemes for ecosystem services in Asia

Beria Leimona^a, Meine van Noordwijk^a, Rudolf de Groot^b, Rik Leemans^b



Commodification of ES
Compensation for OpCost
Coinvestment in stewardship

Annu. Rev. Environ. Resour. 37, 389-420

5 scales of economics

Social
Ecological

Micro

Macro

Monetary fungibility

Behavioural economics: really internalizing externalities at emotional core of decision making

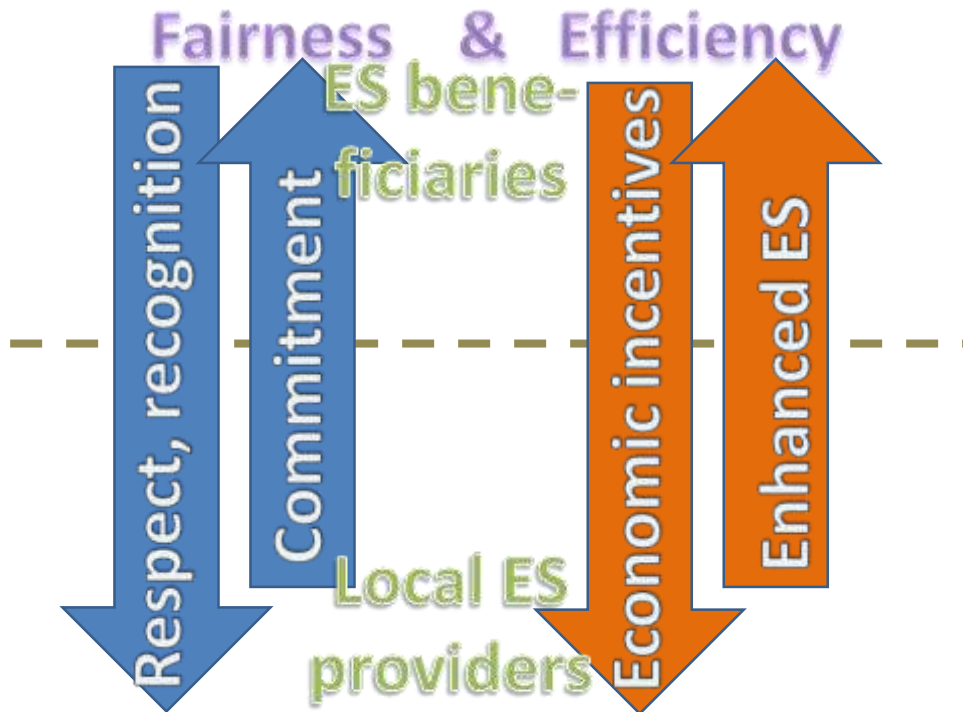
Individual & household decisions on scarce resources

Environmental economics: internalizing externalities of individual decisions for common goods

National scale decisions on scarce resources

Ecological economics: planetary boundaries put hard constraints





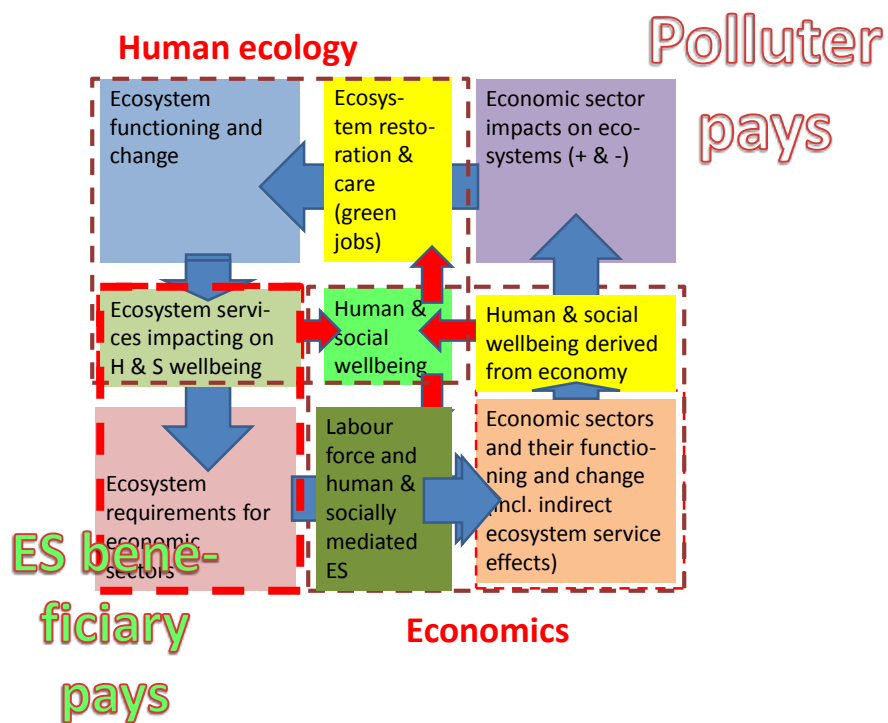
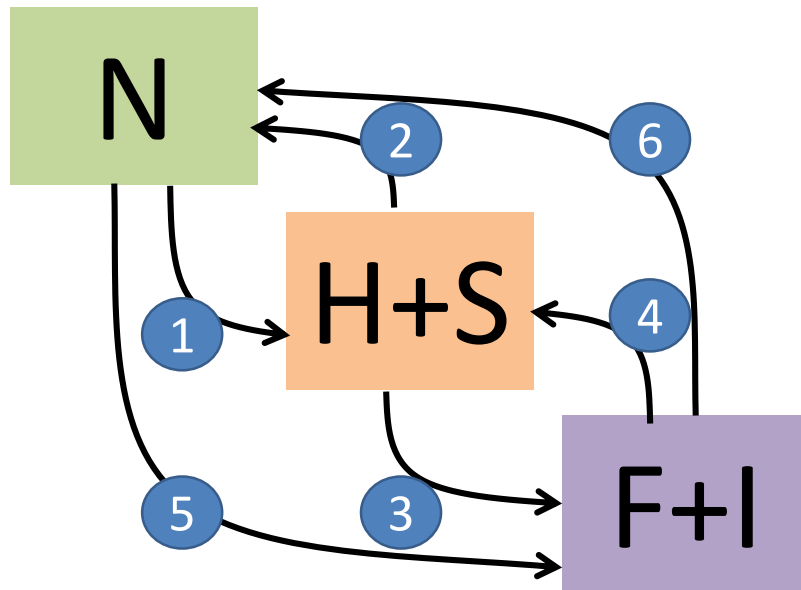
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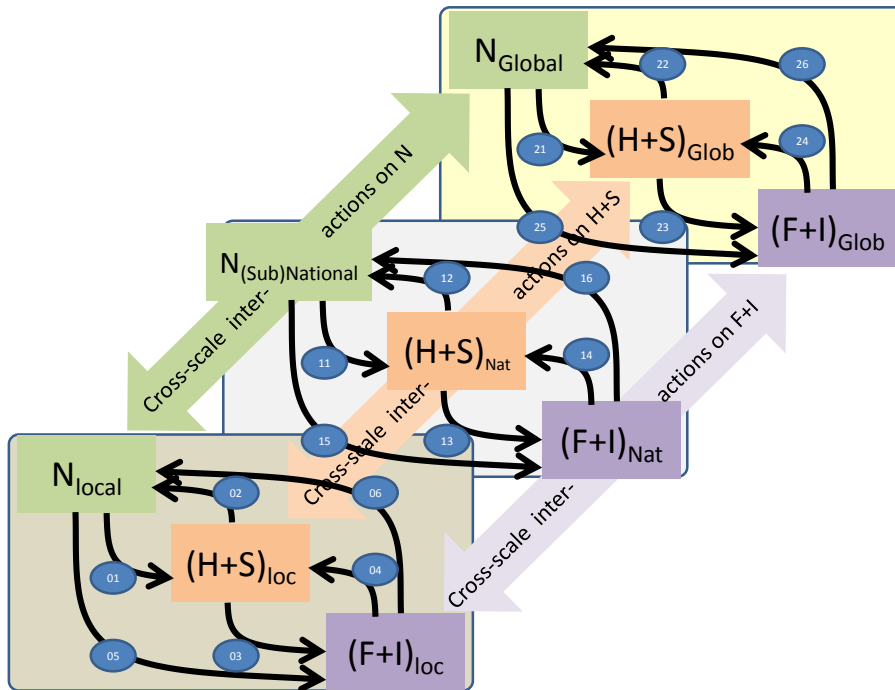
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Contents lists available at [ScienceDirect](http://www.sciencedirect.com)

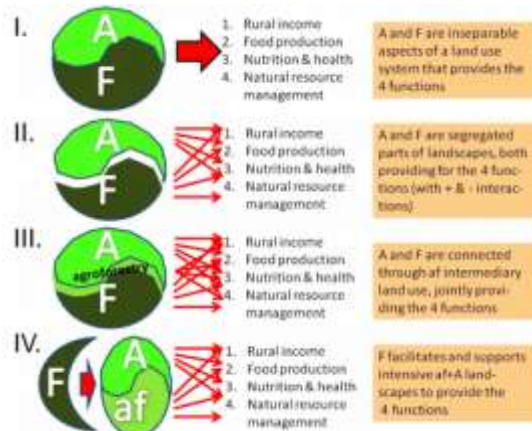
Global Food Security

journal homepage: www.elsevier.com/locate/gfs



Tree cover transitions and food security in Southeast Asia

Meine van Noordwijk^{a,*}, Viola Bizard^{a,c}, Prasit Wangpakapattanawong^b, Hesti L. Tata^c,
Grace B. Villamor^d, Beria Leimona^a



Lessons learnt

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and way forward

Explicitly differentiated 'Theory of Place' versus generic 'Theory of Change' within SDG's

Interlinked fairness ↔ efficiency negotiations at nested scales

Accept that forests are a 'means' and not a 'goal' for most policy processes

Evidence based on negotiated indicators