



Biodiversity and ecosystem services in REDD+ scenarios



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What can scenarios do?

Assess possible REDD+ impacts on biodiversity and ecosystem services in a complex and changing future

- Identify a range of possible futures (in which REDD+ might occur)
- Compare outcomes in REDD+ versus non-REDD+ futures
- Examine implications of REDD+ policy choices

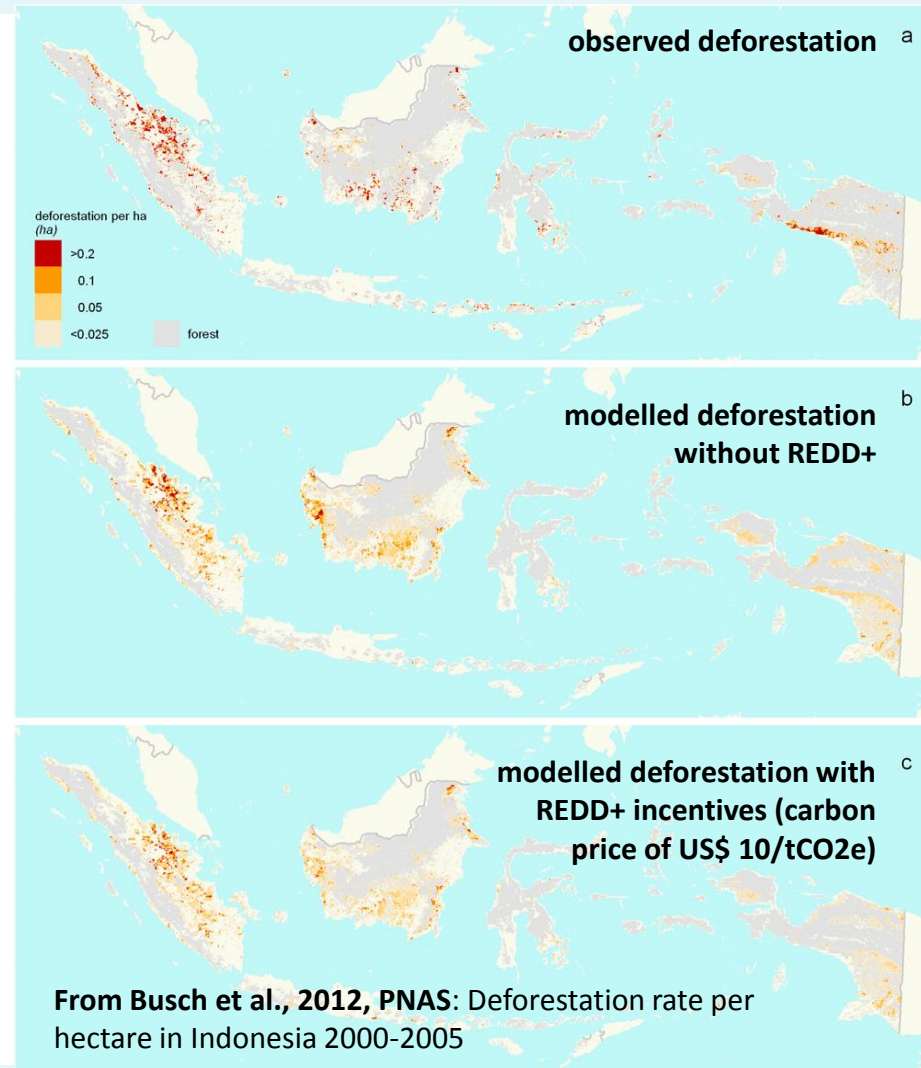
Help those involved think through potential REDD+ activities, their practicality, risks and benefits

- Participatory exercises involving decision-makers to both yield plausible scenarios and build consensus on preferred futures
- Narrative and modelled scenarios are complementary and ideally iterative

CANNOT predict the future!

REDD+ scenario elements

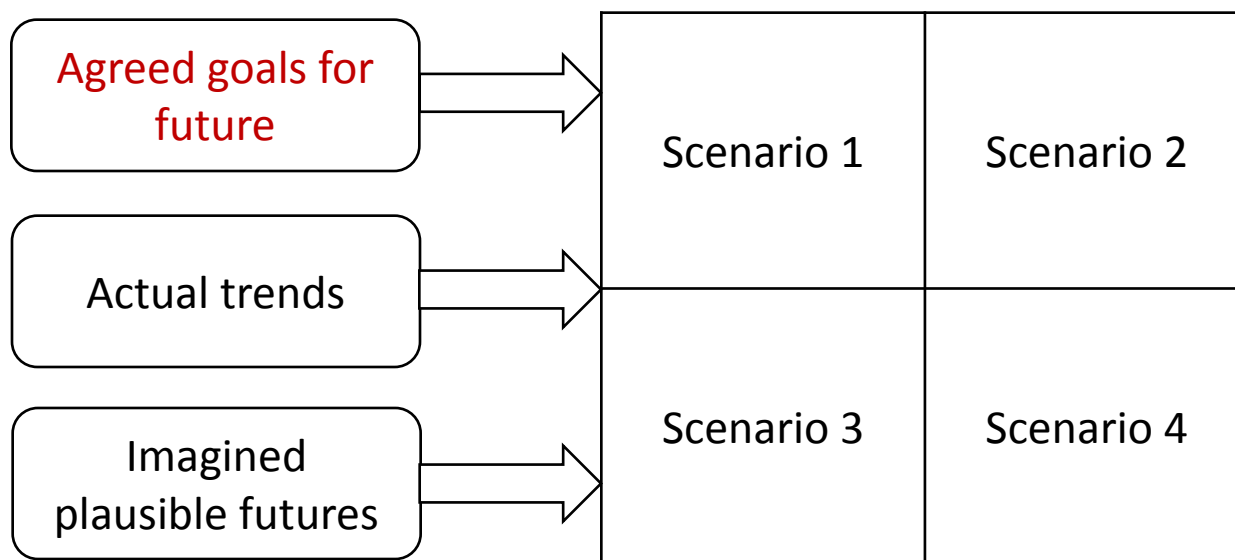
- Policy narratives
 - (i) how REDD+ implemented (regulation v incentives; activities)
 - (ii) other land-use policy
- Economic / land-use models
 - (i) varying commodity demand/prices
 - (ii) different international contexts for REDD+ (e.g. carbon prices)
- Impacts modelling
 - (i) land use/cover change and its impacts on biodiversity & ecosystem services





Policy narratives for land-use scenarios

Some inputs to a narrative scenario exercise:





CBD “Aichi Targets” 2011-2020 - key forest references

Target 5 :

*“By 2020, **the rate of loss of** all natural habitats, including **forests, is at least halved** and where feasible brought close to zero, and degradation and fragmentation is significantly reduced”*

Target 7:

*“By 2020 **areas under** agriculture, aquaculture and **forestry are managed** sustainably, **ensuring conservation of biodiversity.** ”*

Incorporating biodiversity into REDD+/land-use modelling

Modelling impacts of REDD+

- Assessing **biodiversity impacts** of modelled land use change through, e.g.: LUC in priority areas or species ranges; loss of species habitat; change in landscape function (connectivity); dynamic approaches (incremental increase in impact)

Modelling existing conservation policy

- Accounting for effect of **existing and future protected areas**

Modelling policies that promote & support safeguards:

- Applying **biodiversity priorities** when targeting REDD+ action and/or constraining land-use change
- Recognising and protecting **natural forest**

....in Congo Basin and Brazil



National work

Panama and **Paraguay:**

REDD+ scenarios that incorporate multiple benefits

- storylines
- data → impacts analysis

Thank you for listening!

