



The role of spatial analysis in REDD+ planning

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Outline

1. Land use planning and REDD+

2. Spatial analysis to support REDD+

3. The use of maps

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1. Land use planning and REDD+

2. Spatial analysis to support REDD+

3. The use of maps

REDD+ involves 5 '*activities*' and numerous '*actions*' or '*interventions*'

Activity	Example actions / interventions
Reducing emissions from deforestation	Eg: reduce conversion pressure through improved land-use planning
Reducing emissions from forest degradation	Eg: provide fuelwood alternatives/efficient cookstoves
Conservation of forest carbon stocks	Eg: consolidating management of existing protected areas
Sustainable management of forest	Eg: reduced impact logging; community forestry
Enhancement of forest carbon stocks	Eg: forest rehabilitation; afforestation

Land use planning and REDD+

- Land subject to competing uses including urban areas and infrastructure, agriculture, forests and other ecosystems
- Land-use planning for REDD+ can help to:
 - assess alternative uses for land

potentials risks

 identify priority locations for implementation of REDD+ actions, while enhancing potential benefits and avoiding





Land use planning and REDD+

Reconcile demands for land use

Planning to avoid potential risks and costs due to REDD+ Land use planning inputs to develop national REDD+ strategy

Identify suitable REDD+ actions and potential locations

Identify potential benefits



2. Spatial analysis to support REDD+

Spatial analysis to support REDD+ planning

- Spatial planning can help to:
 - Map existing conditions relevant for land-use planning
 - Map areas where REDD+ actions could be implemented
 - Map potential benefits and risks of actions
 - Map priority areas for implementation of REDD+ actions
- Spatial analyses can support land-use planning for REDD+ that enhances benefits, reduces risks and minimizes costs



Different REDD+ actions will be



Potential benefits, risks and costs of REDD+ depends on where and how actions are implemented

Forest patrolling

Reforestation

Ecotourism



What questions a map can help answer?

- Which areas are under pressure that need to be addressed?
- Where can the desired benefits be achieved?
- Where might risk of unsuccessful implementation be high?
- What are the costs in different places?



A. Understand the context for REDD+ planning

Carbon stocks and areas of recent deforestation (2000-2009) in Central Sulawesi



B. Understand drivers of deforestation and degradation









B. Understand drivers of deforestation and degradation

Current oil and gas exploration licenses, applications and open acreage in Tanzania, with carbon and natural forests



C. Identify potential multiple benefits for REDD+

Important wildlife corridors, protected areas, natural forest and woody biomass carbon in Tanzania



C. Identify potential multiple benefits for REDD+



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C. Identify potential multiple benefits for REDD+



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Potential for nature-based tourism (mean occurrence probability of birdwatching relevant species) in Honduras

Benefits vary geographically: Case study Panama

Biomass carbon stocks



Importance for tourism



Importance for biodiversity



Importance for soil erosion control





Forested areas in Panama of potential importance for benefits and at risk of deforestation



Spatial congruence of potential REDD+ benefits in Honduras



Workflow: spatial analysis and REDD+



Summary

- Spatial analysis provides decision support for REDD+ planning, among other tools and approaches
- Spatial analysis can help plan for REDD+ that is feasible, enhances potential benefits, reduces potential risks and minimizes costs
- Spatial analysis can also help planners and stakeholders to identify suitable
 REDD+ actions and priority zones for those actions
- Important to integrate stakeholder priorities and needs into wider consultation and planning processes for REDD+, including spatial analysis processes
- UN-REDD Programme/other initiatives provide guidance on tools, methodologies and other resources for spatial planning, and case studies from countries/states designing and implementing REDD+