Spatial data for forest planning and REDD+

Viet Nam, 19th September 20016 Charlotte Hicks and Shaenandhoa García Rangel





- Spatial analysis supporting forest planning and REDD+
- 2. Combining data from different sources
- 3. Examples from country applications
- 4. Tools and data for spatial analysis
- 5. Important considerations in using spatial analysis

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6. Final remarks



- Land is a limited resource with different uses and pressures:
 - Urban areas and infrastructure
 - Agriculture
 - Conservation and provision of ecosystem services
- Land-use planning for REDD+ helps to assess:
 - Alternative uses
 - Realistic options for a national REDD+ strategy, and priority locations
 - Provision of intended benefits and avoid risks





- Spatial analyses are:
- A strong method to identify areas were benefits converge and areas not associated to the benefits prioritised.
- Good starting point to identify factors that could influence decision-making during the planning process.
- Data compilation helps to identify what it is known and what are the gaps of information.





- Maps can be used as a decision-support tool for forest planning, including REDD+ helping to:
 - Understand extent and distribution of forest values, pressures, risks, costs and land designations & visualize overlap between factors
 - Identify feasible actions
 - Opportunities to enhance benefits, reduce risks and minimize costs
 - Negotiate forest- and resource-use solutions
 - Develop implementation plans



@Jorge Moyeja







Tools and data for spatial analysis





Tools, tutorials and data for spatial analysis

- Various tools are available to support forest planning, including REDD+
 - Consider software and tools already being used in country for land-use and forest sector planning
- UN-REDD Programme/other publications have guidance on tools, methodologies and other resources for spatial planning, and case studies from countries designing and implementing REDD+
 - Most examples in this presentation are the result of direct mapping and GIS support from the UN-REDD Programme in collaboration with countries
- Exploring Multiple Benefits Mapping Toolbox and tutorials developed by UNEP-WCMC provide raster analysis tools to help identify, map and understand relationship between carbon stocks, ecosystem services and biodiversity



- Benefits and risks vary spatially
- Depend on where and how actions are implemented

Carbon content



Tourism



Biodiversity



Erosion control



Forested areas important for multiple benefits at risk of deforestation in Panama MAPS DEVELOPED FOLLOWING A SIMILAR PROCESS FOR THE ONE YOU FOLLOWED T DEVELOP PRARP



Forested areas important for erosion control in Paraguay



Forest restoration opportunities in Paraguay





THE PRIORITY AREA MAP TO IMPLEMENT SOLUTION PACKAGES

Important considerations in using spatial analysis

- Be clear what question each map is intended to address
- Consult thoroughly with the users of the maps
- Test the utility of the results and explore with stakeholders how they can best be delivered/presented
- Consider data availability and compatibility:
 - Scale, adequacy
 - Copyright
 - Quality and accuracy of spatial information



Important considerations in using spatial analysis

- Decisions are taken by end-users not by the maps
- Spatial analysis needs to be integrated into participative process where stakeholders are engaged
- Not all data and/or process can be mapped



Final remarks

- Spatial analysis can support forest planning, including REDD+ AT SUBNATIONAL LEVEL, that enhances potential benefits, reduces potential risks and minimizes costs
- Spatial analysis can inform REDD+ strategy development
 - Development of realistic options for a national REDD+ strategy including identifying suitable REDD+ actions and priority locations for those actions – will help balance potential benefits and risks as well as costs of REDD+
 - Sub-national scale spatial analysis, informed by multi-stakeholder discussion, can help identify priority areas for REDD+ actions
 - Important to integrate stakeholder priorities and needs into wider consultation and planning processes for REDD+



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Thank You

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