



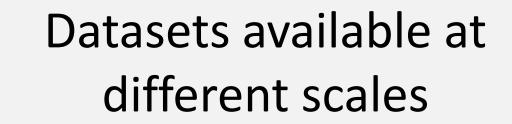
What types of spatial information can support REDD+ planning? Where might the spatial data come from?

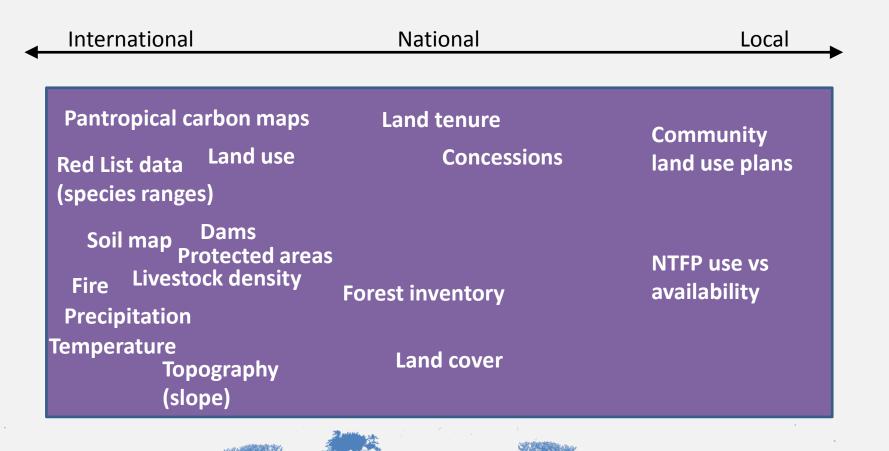
UNEP-WCMC

10 October 2013

UN-REDD ASIA REGIONAL WORKSHOP











Examples of potential MBs



Environmental benefits

- Conservation of biodiversity
 - Goals of conservation policies
 - Genetic resources as an asset
 - Cultural values
 - Stabilizing role of biodiversity
- Hydrological regulation
- Protection against natural disasters
- Local climate regulation
- Soil conservation
- Pollination, pest control
- Wood supply
- NTFPs
- Cultural identity, sense of place
- Cultural values and tourism

Social benefits

- Livelihood creation
- Creation of sustainable enterprises
- Poverty reduction
- Support for vulnerable and marginalized groups
- Support traditional lifestyles
- Diversification of livelihoods
- Clarification of land use rights
- Improved natural resource governance



Examples of potential risks



Environmental risks

- Displacement of pressure to other areas important
- Reversal of results
- Negative impacts on efforts to enhance productivity in agriculture and managed forests
- Negative impacts on efforts to enhance carbon stocks (e.g. reforestation with nonnative species)

Social risks

- Exclusion of vulnerable or disadvantaged groups, increased inequalities
- Escalation of land use conflicts
- Limitation of development options
- Unfair distribution of REDD+ benefits, including payments



1. Priority MBs



• Identify a priority list of MBs for your country





What types of spatial information can support REDD+ planning? Where might the spatial data come from?



Initial spatial analyses



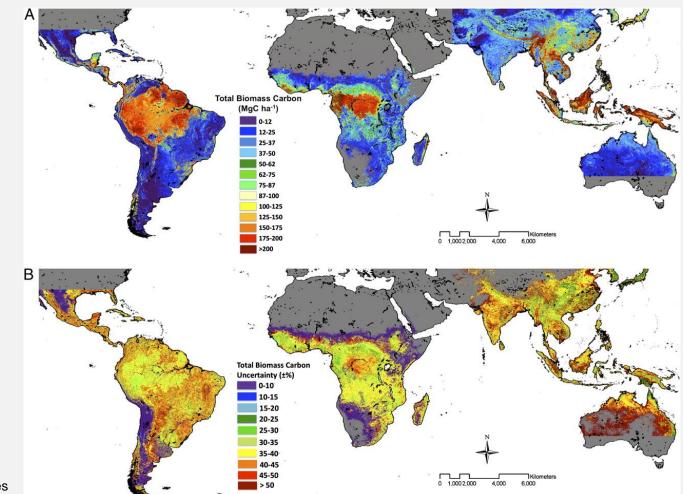
that can help to choose REDD+ activities

- Carbon stocks
- Natural forest
- What existing values of forests are important to conserve?
 - Biodiversity
 - Ecosystem services
 - Location of communities, IPs
- Land use
 - Land cover
 - Protected areas
 - Concessions
 - Agricultural zones
 - Biophysical features (soil, topography, climatic variables...)
- Administrative units and infrastructure (roads, dams...)
- Drivers of deforestation and forest degradation



Carbon stock





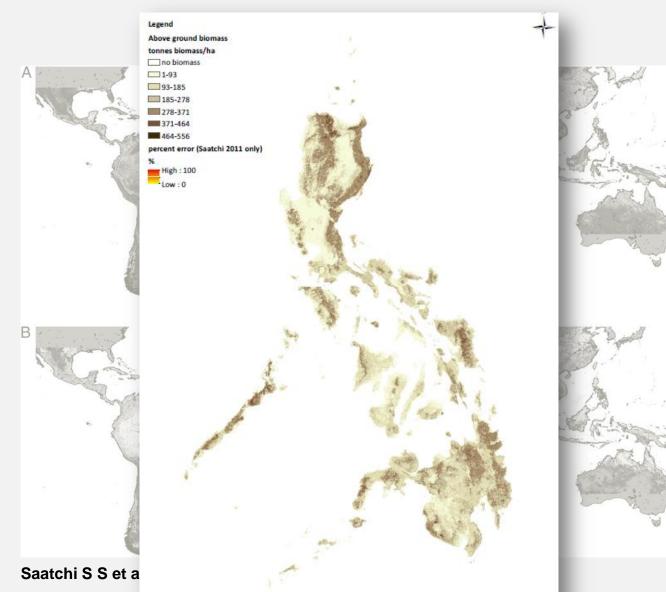
Saatchi S S et al. PNAS 2011;108:9899-9904

©2011 by National Academy of Sciences

PROGRAMME

Carbon stock

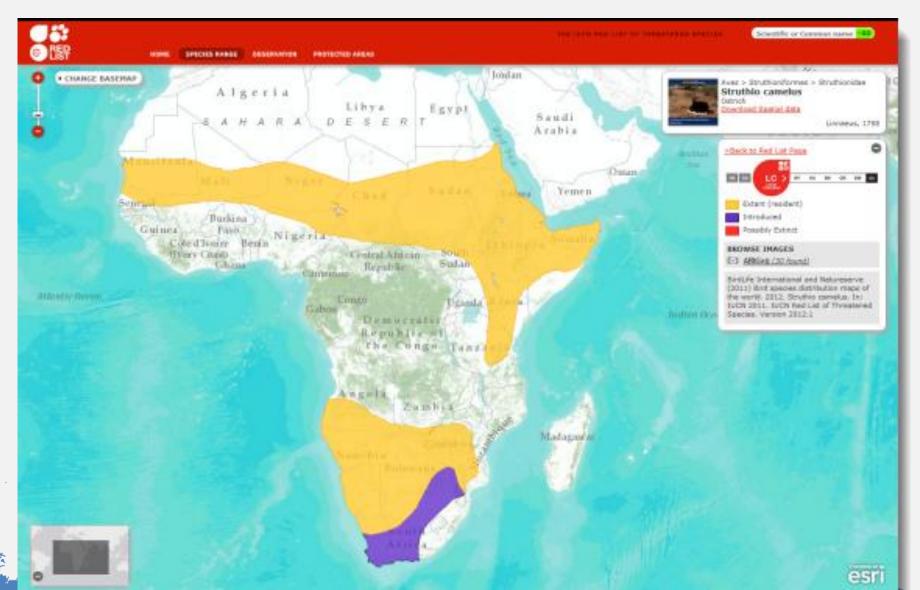


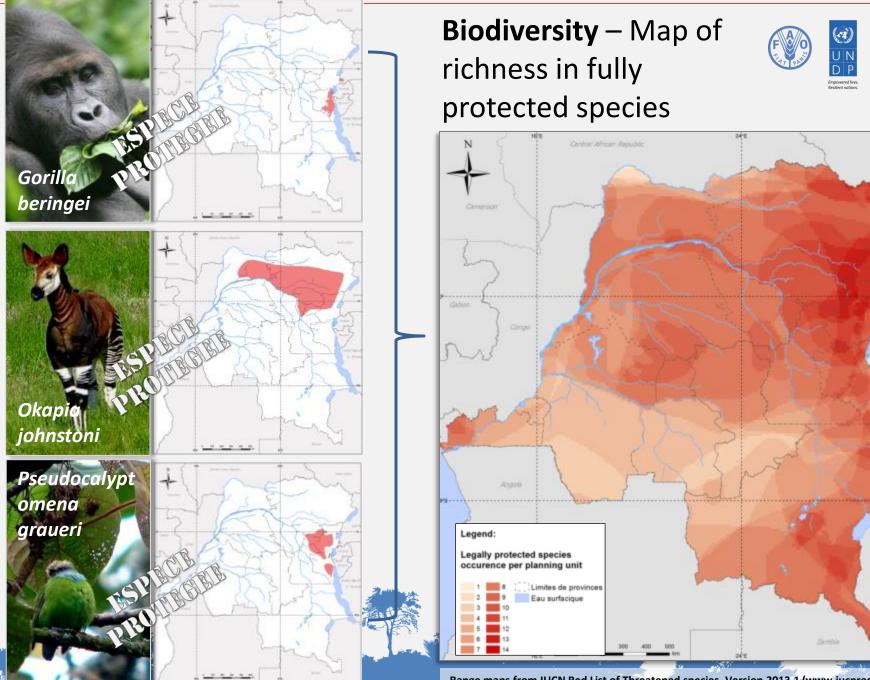




Biodiversity







Range maps from IUCN Red List of Threatened species. Version 2013.1 (www.iucnredlist.org)

UNEP



Protected areas

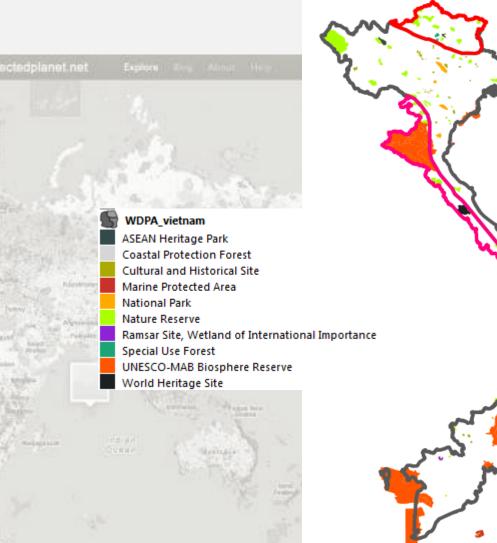






Protected areas





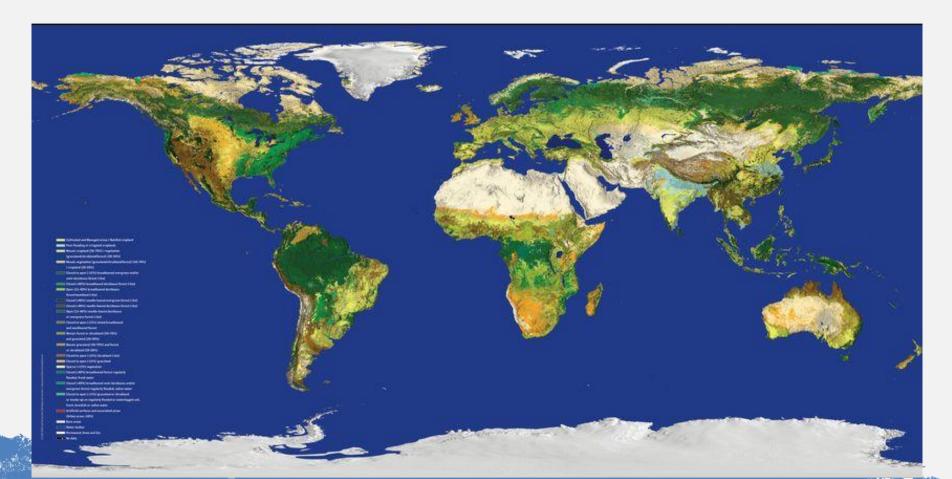




Land cover



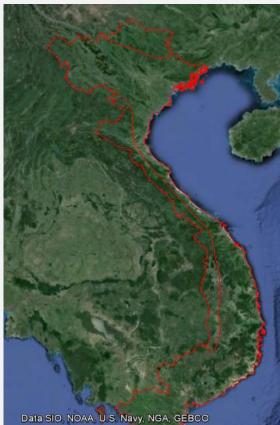






Satellite imagery



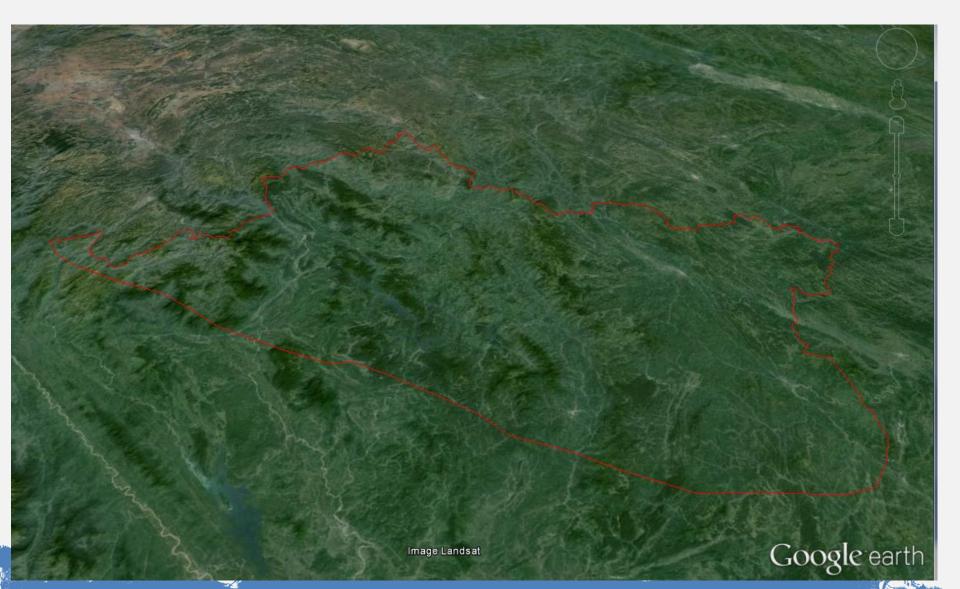


Data SIO, NOAA, U.S. Navy, NGA, GEBCO Image Landsat



Google earth









S AND

A selection of relevant international sources of spatial data that could be useful for REDD+ planning

National data is likely to be more relevant where it exists, but where detailed national data is lacking, global or international data sources can be useful for providing spatial data for REDD+ planning. The below table contains a selection of relevant data sources.

Spatial database	Description	Link	Notes (what maps relevan to your country could this data be useful for?)
Major databases		•	
UNEP Environmental Data Explorer	The Environmental Data Explorer is the authoritative source for data sets used by UNEP and its partners in the Global Environment Outlook (GEO) report and other integrated environment assessments. Its online database holds more than 500 different variables, as national, subregional, regional and global statistics or as geospatial data sets (maps), covering themes like freshwater, population, forests, emissions, climate, disasters, health and GDP.	http://geodata.grid.unep.ch	
FAO	FAO's main data portal on the topics under its mandate, containing data on 119 topics in 198 countries, including 44 datasets, 22 databases, 234 000 maps, and 59 000 pictures.	http://data.fao.org	
FAO	Core spatial datasets relevant to forests and climate change	http://www.fao.org/climatechange/54 267/en	
CGIAR <u>Centers</u> - GeoSpatial Sites	The 15 CGIAR International Research <u>Centers</u> provide spatial data for sustainable agricultural development.	http://csi.cgiar.org/MapServices.asp	
UNData	Has databases on, for example education, finance, health, human development, industry, information and communication technology, population, refugees, tourism and trade	http://data.un.org	
Ecosystem carbon sto	cks	1	•
Above-ground biomass carbon Above-ground	Pan-tropical forest carbon mapped with satellite and field observations. Source: Woods Hole Research <u>Center</u> . Lead researcher: Alessandro <u>Baccini</u> Forest carbon stocks in tropical regions across three continents.	http://www.whrc.org/mapping/pantro pical/carbon_dataset.html http://carbon.jpl.nasa.gov/data/dataM	
biomass carbon	Source: NASA. Lead researcher: Sassan Saatchi	ain.cfm	
Soil carbon	Global carbon in soils to 1m depth based on the Harmonized World Soil Database (HWSD)	Not yet available for download. Contact UNEP-WCMC at <u>climate@unep-wcmc.org</u>	
Biodiversity and ecosy	ystems		
The IUCN Red List of	The IUCN Red List of Threatened Species [™] provides taxonomic, conservation	http://www.iucnredlist.org	

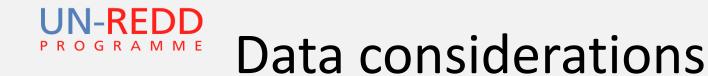


Initial spatial analyses



that can help to choose REDD+ activities

- Carbon stocks
- Natural forest
- What existing values of forests are important to conserve?
 - Biodiversity
 - Ecosystem services
 - Location of communities, IPs
- Land use
 - Land cover
 - Protected areas
 - Concessions
 - Agricultural zones
 - Biophysical features (soil, topography, climatic variables...)
- Administrative units and infrastructure (roads, dams...)
- Drivers of deforestation and forest degradation





- © copyright <u>Click here</u>
- Citations
- Quality



2. Priority MBs



- Identify a priority list of MBs for your country
- What datasets are available for your priority MBs? Are they you first priorities?

PROGRAMME





Supporting, planning for REDD+ activities through spatial analysis. Regional Workshop, Asia-Pacific Clinic session name: How local stakeholders can effectively participate in collecting and validating data, and how spatial analysis can also be used to help enhance participation in decision making

Country:

Country participant's names:

Click here to enter text.

UNEP

Objectives of session:

Summary of work covered in session:

Proposed next steps resulting from discussion:







 Proposed next steps resulting from discussion

Will you share the datasheet?

- Useful information from the session What datasets might you use?
- Missing information from the session

What would have been helpful?

 Names of resource persons to contact in future

lucy.goodman@unep-wcmc.org

