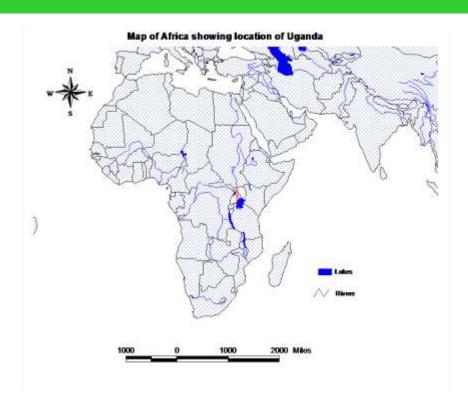


Using spatial analysis to explore synergies between REDD+ and NSBAPs; Uganda's experience





Richard Kapere



Introduction



National Biodiversity Strategy and Action Plan (NBSAP)

- Uganda is still in the process to develop her NBSAP 2, the first one having expired in 2012
- Consultations have been held both nationally and with the CBD secretariat and comments are being incorporated.
- The document is expected to be ready by December 2014 after presentation to Cabinet

REDD+ Strategy

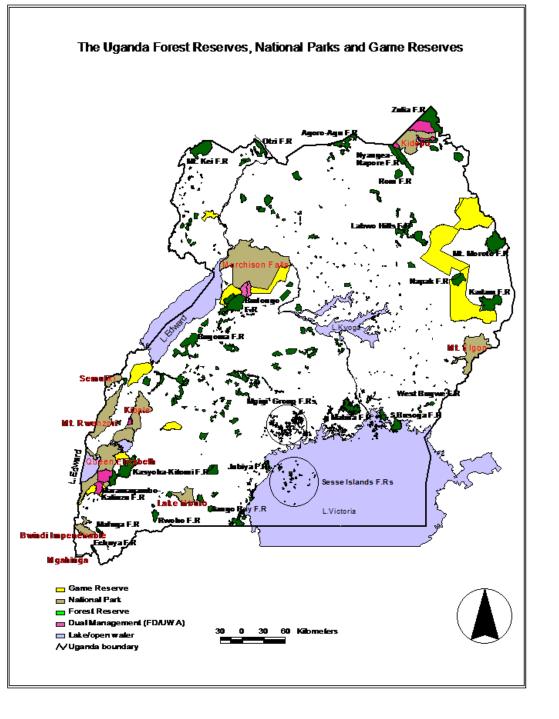
- Uganda REDD Preparedness Proposal (R-PP) was approved and has been funded for implementation and the process has started.
- The proposal preparation process involved Consultations with Stakeholders and selected studies were done.
- Some of the following outputs are envisaged at the end of the R-PP implementation period (REDD+ Strategy):
- Strategies and actions for addressing the drivers of deforestation and forest degradation
- > A National forest reference emissions level and future scenario.
- ➤ A National Monitoring system for Measuring, Reporting and Verifying effects of REDD-Plus Strategy options on GHG emissions and other multiple benefits.
- Information/database on forestry resources (status, trends, deforestation, degradation, Governance, etc..)
- Potential emissions reduction activities and sites.
- REDD+ Strategy options are likely to be adopted by end of 2016 or early 2017
- Only interim guidance on implementation on demonstration and or Sub national activities related to REDD+ has been developed.



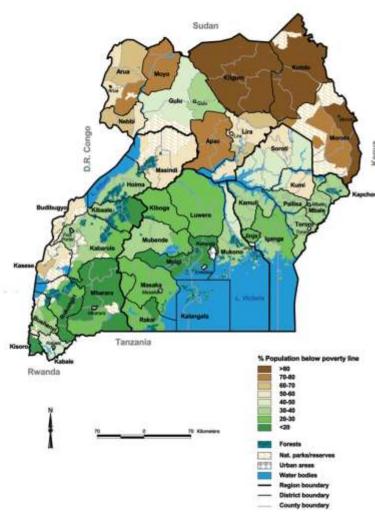
Use of Spatial analysis in the two processes above to determine biodiversity threats hence decision making

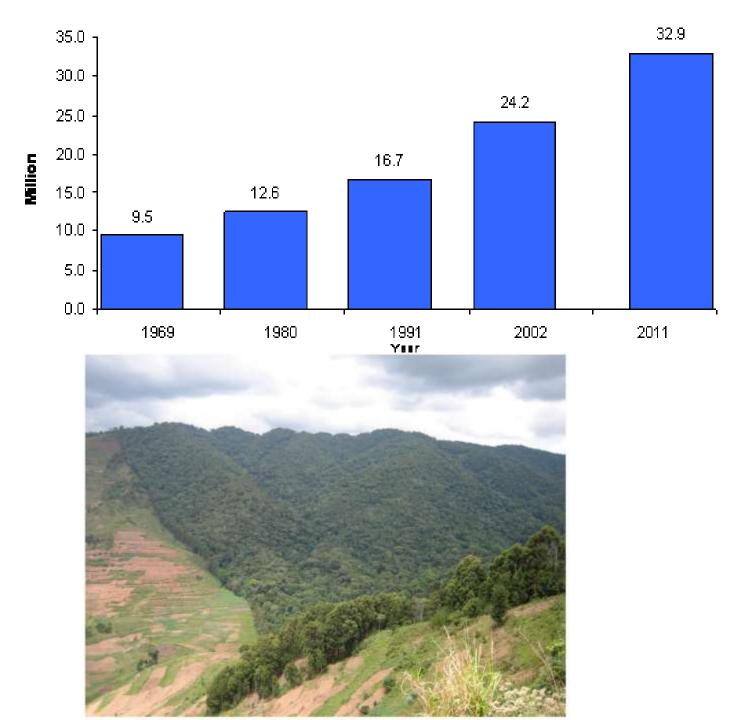


- Vegetation/biomass maps in relation to demographic and poverty maps
 - Vegetation/PA maps of Uganda
 - Poverty situation maps
 - Population trend maps
 - Repetitive Land cultivation (scarcity) maps
 - Carbon stocks and pressures

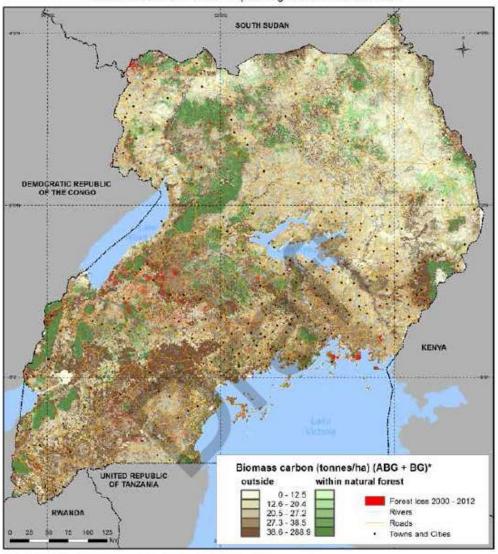


1999 County-Level Rural Poverty Incidence





Natural forest is defined as 'Tropical High Forest' and 'Woodland'



* (ABG + BG) = Above ground + below ground biomass carbon

Source

Biomass Carbon: Seatchi, S.el. at "Benchmark map of forest carbon stocks in tropical regions across three continents", PNAS, 108, 24 (2011). 9899-904, http://carbon.jpl.nasa.gov/

Porest Cover Less: Hansen, M. C., P. V. Pötapov, R. Moore, M. Hancher, S. A. Turubanovs, A. Tyukavina, D. Thau, S. V. Stehman, S. J. Goetz, T. R. Loveland, A. Kommateddy, A. Egorov, L. Chini, C. O. Justice, and J. R. G. Townshend, 2013, "High-Resolution Global Maps of 21st-Century Forest Cover Change," Science 342 (15 November): 850–53, Data available on-line from: http://earthenginepartners.appspol.com/science-2013clobal-forest

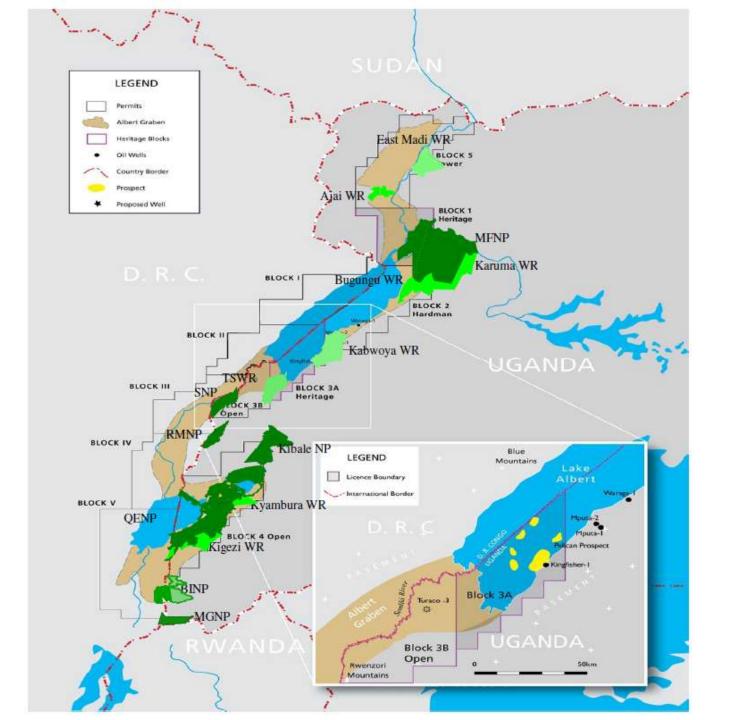
Natural Forest: 'Tropical High Forest' from classes 3 and 4 and 'Woodland' from class 5 of the Generalised National Biomass study (NBS) dataset.



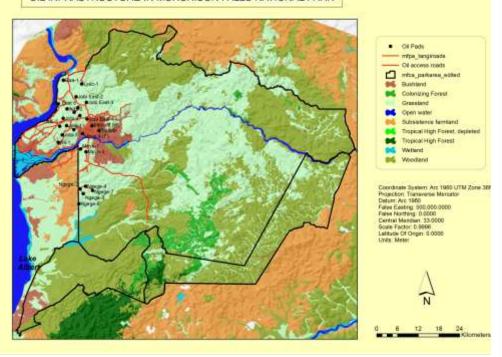
Use of Spatial analysis continued.....

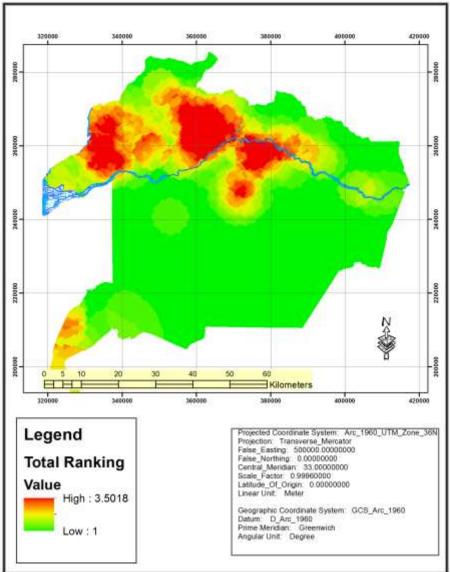


- Land use maps in relation to Biodiversity hotspot areas
- > Oil discoveries (oil-human activity interface and biodiversity)
- > The cattle corridor associated with charcoal production
- > Agricultural production especially commercial agriculture-Tea, Tobacco, Sugar cane, Maize



OIL INFRASTRUCTURE IN MURCHISON FALLS NATIONAL PARK







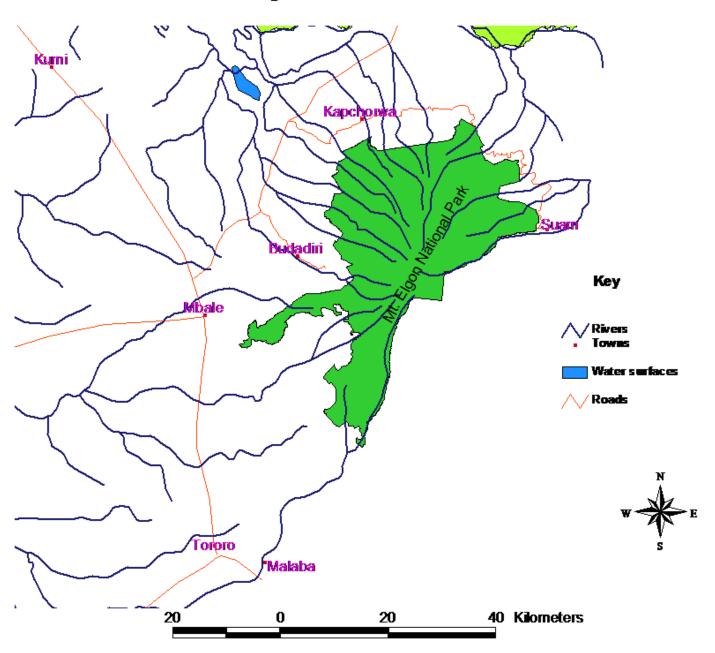
Use of Spatial analysis continued......

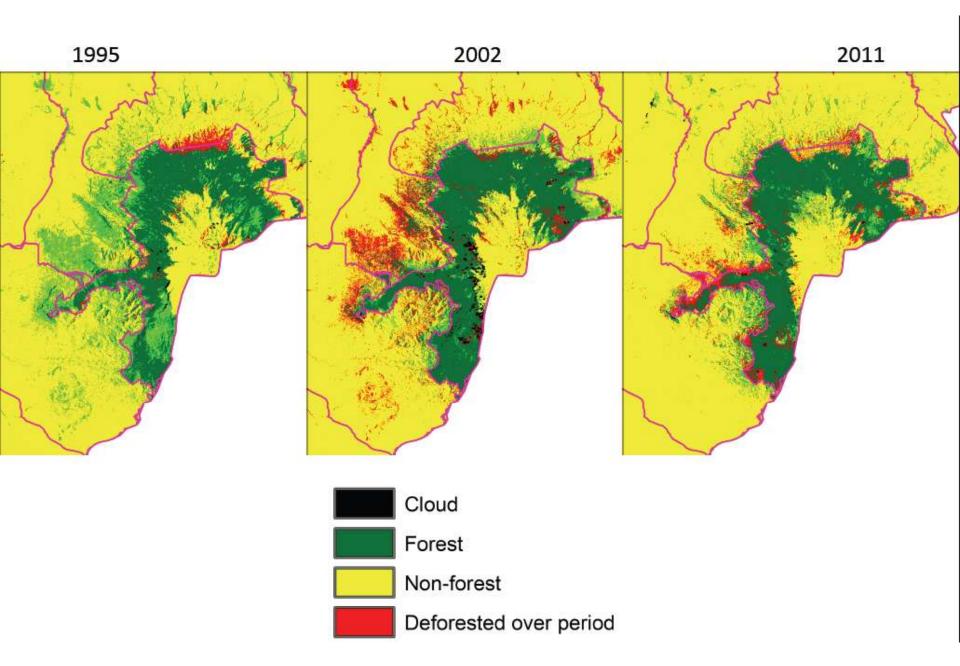


Hydrological maps

- ➤ Hydropower and thermal power developments in relation to the Decisions to manage catchments
- Mining in biodiversity hot spots and population influx

Mt. Elgon Watershed



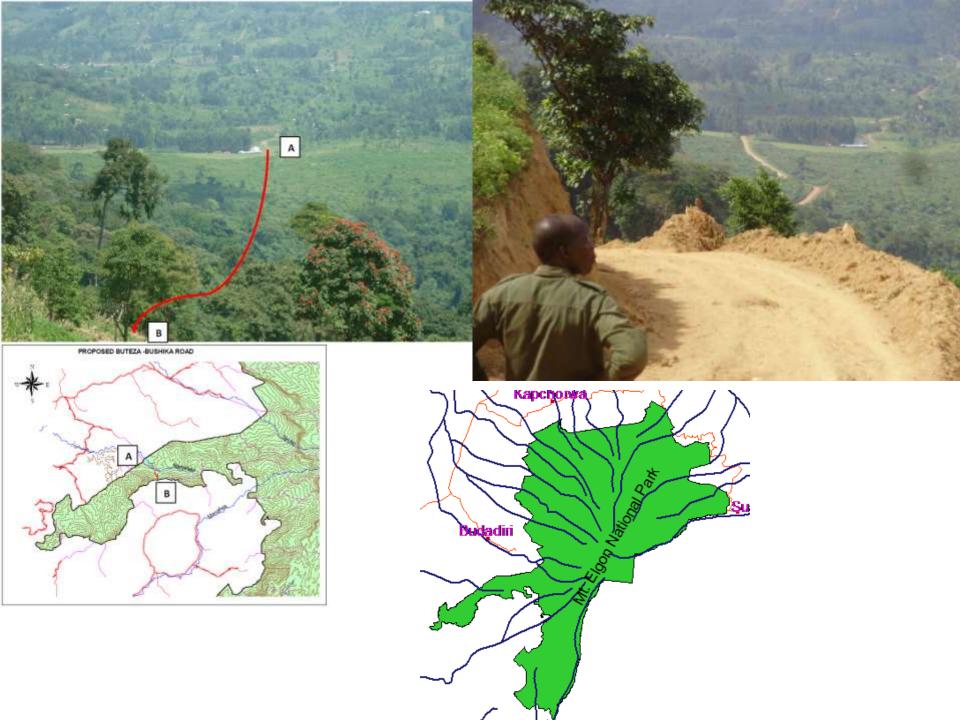




Use of Spatial analysis continued.....



- Shapes of protected areas at gazettment
- ➤ Roads for community-connectivity; markets, Health services, Politics in relation to loss of biodiversity





Some of the Nationally appropriate actions influenced by the awareness

- Prioritization of Biodiversity management within the ongoing development of the National Development Plan 2015/16 to 2019/20 (Nature-based Tourism)
- ➤ Put in place and implement measures that restore and preserve the integrity of ecosystems that provide critical wildlife habitats and host endangered species
- > Create buffer areas and corridors to conserve Protected Areas from encroachment.
- On-going process to develop National Standards for Forest certification under e.g. the FSC standards
- > Influence markets of forest products
- > Influence Government procurements of forest products

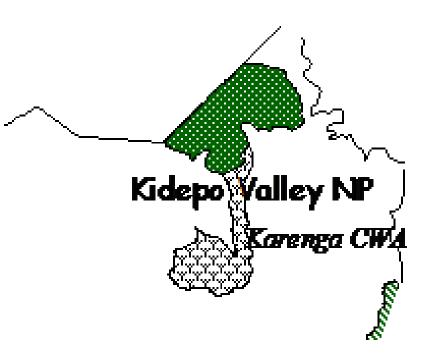


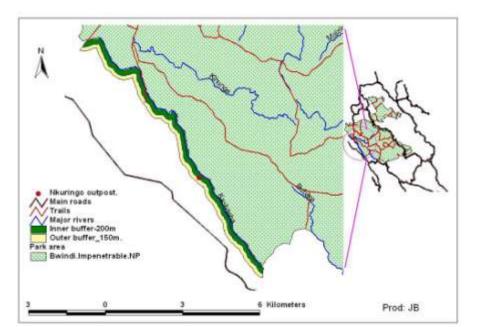
Some of the Nationally appropriate actions

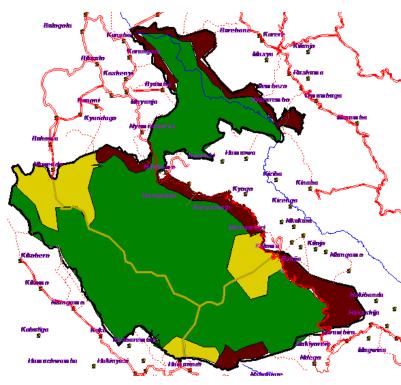


continued.....

- Management of Invasive and Exotic species
- > Invasive management Plan being developed
- Forest restoration
- ➤ Farm Income enhancement project-National project to supply tree seedlings
- ➤ Tree planting in degraded areas within Kibale National Park-FACE the Future project
- Management of biodiversity/wildlife corridors and buffer zones
- Management Plans of Karenga Community Wildlife Reserve and Nkuringo Buffer zone being developed









Conclusion



- Spatial analysis has the potential (some of it already used) to help Uganda come up with the following National Targets in the draft NBSAP2 which are related to REDD+ Strategy study outputs proposed above and REDD+ related Aichi targets:
- ✓ By 2020, at least 17% of the protected areas in Uganda are conserved through
 effectively and equitably managed, ecologically representative and well-connected
 systems for socio-economic benefit of the population (Aichi 11)
- ✓ By 2020, Wetland ecosystems providing essential services are being sustainably managed, and where necessary restored, taking into account environmental, economic and social needs (Aichi 11)
- ✓ By 2020, ecosystem resilience and the contribution of biodiversity to carbon stocks has been enhanced, through conservation and restoration, including restoration of at least 15 per cent of degraded ecosystems, thereby contributing to climate change mitigation and adaptation and to combating desertification (Aichi 15)
- ✓ By 2017, Uganda's biodiversity is reasonably protected from natural disasters (Aichi
 5)



Conserving for Generations

