


Analyses to identify priority areas for the implementation of REDD+ actions

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The logic to identify benefits beyond carbon of REDD+

- 
- What are the no-carbon benefits we want to achieve through the implementation of REDD+?
 - What actions can maintain or enhance these benefits and who are the stakeholders involved in the implementation of these actions?
 - Where are located the areas more suitable for the actions that can maintain and enhance these benefits?
 - How can we integrate all these information in the REDD+ national strategy and in the national safeguards approach?

Benefits and risks are not spatially uniform

The implementation of the REDD+ actions depends on the more suitable areas.

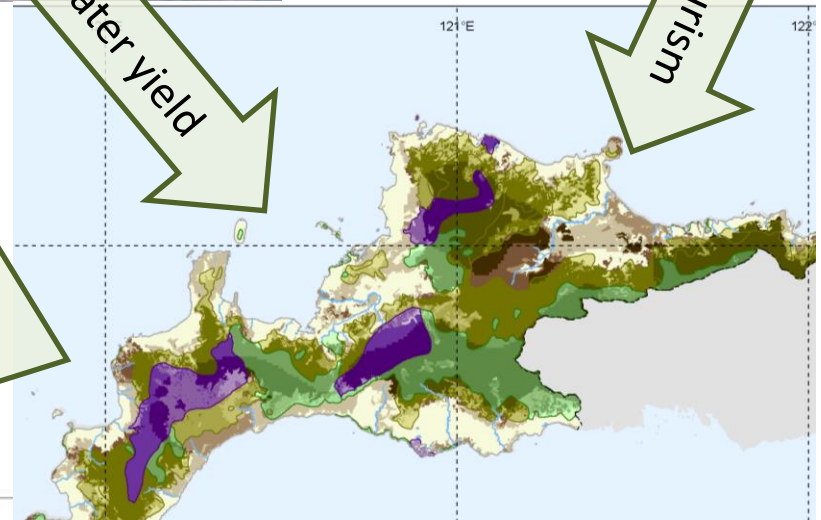


Water yield

Ecotourism



Plantations

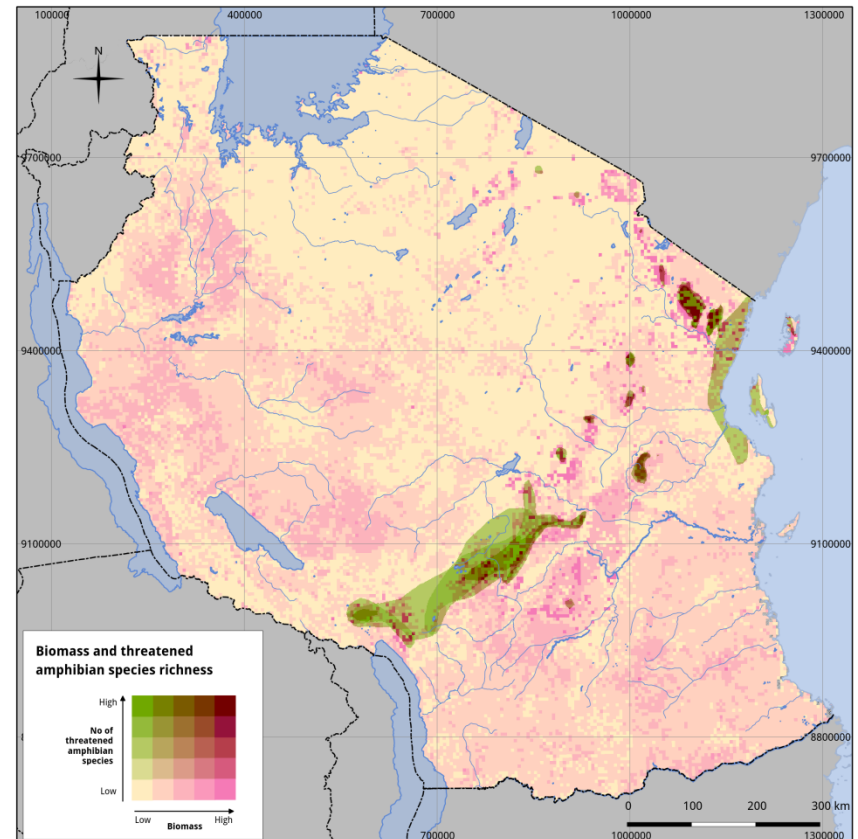


Identification of priority areas for benefits beyond carbon of REDD+

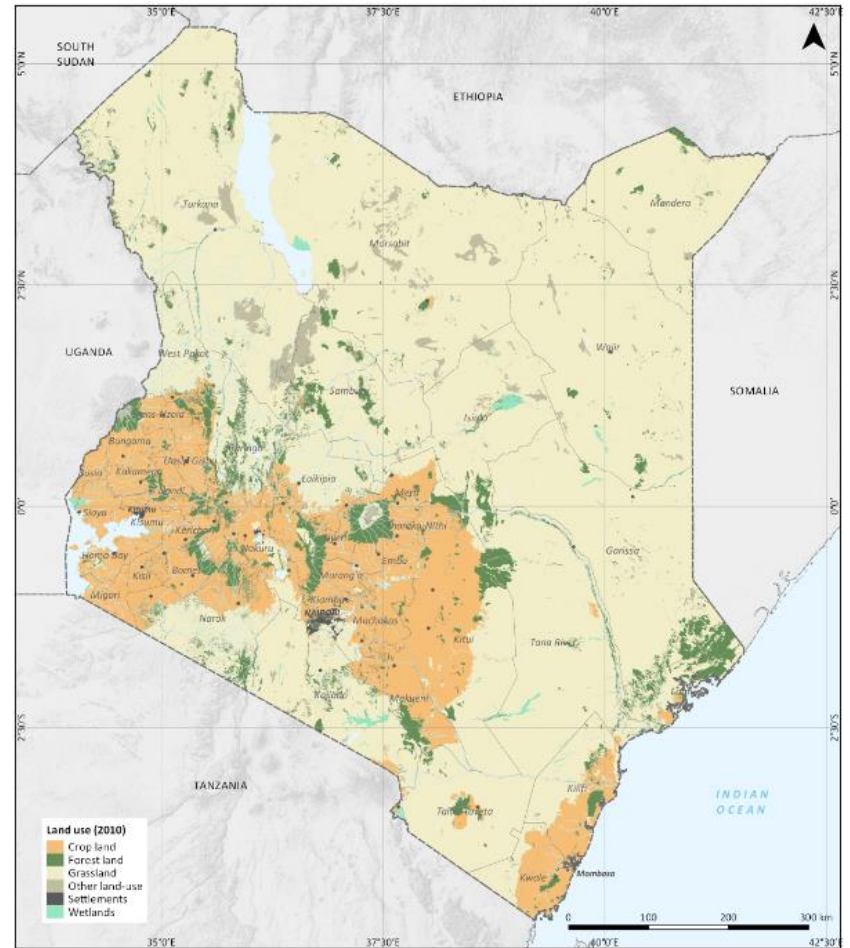
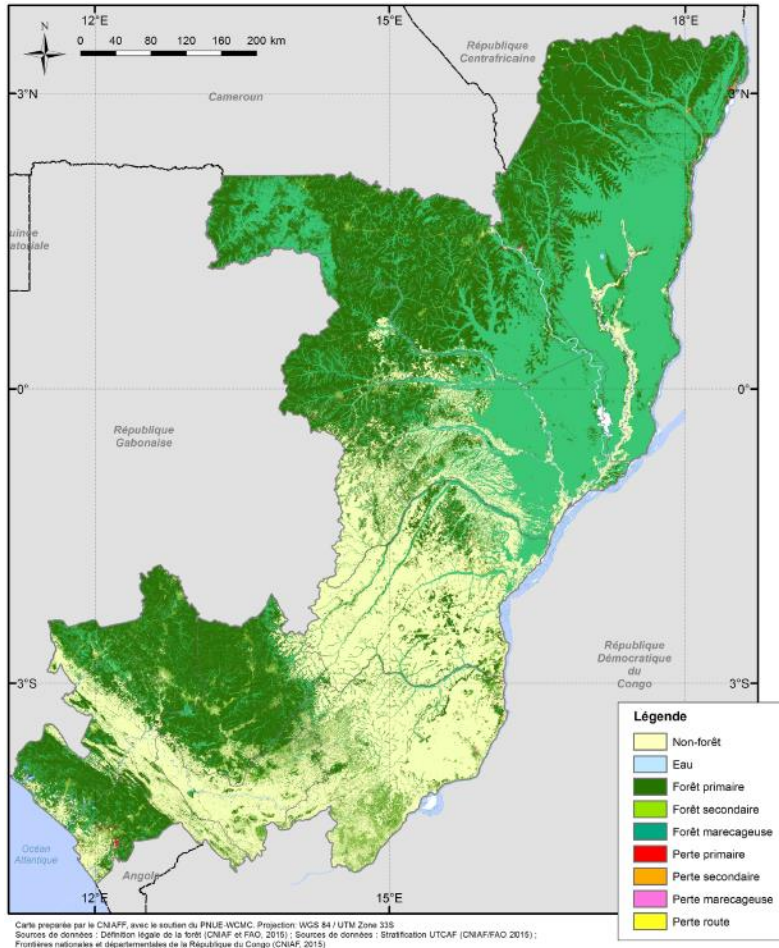
It's useful to identify a specific question that the analyses should answer.

Some initial questions could be:

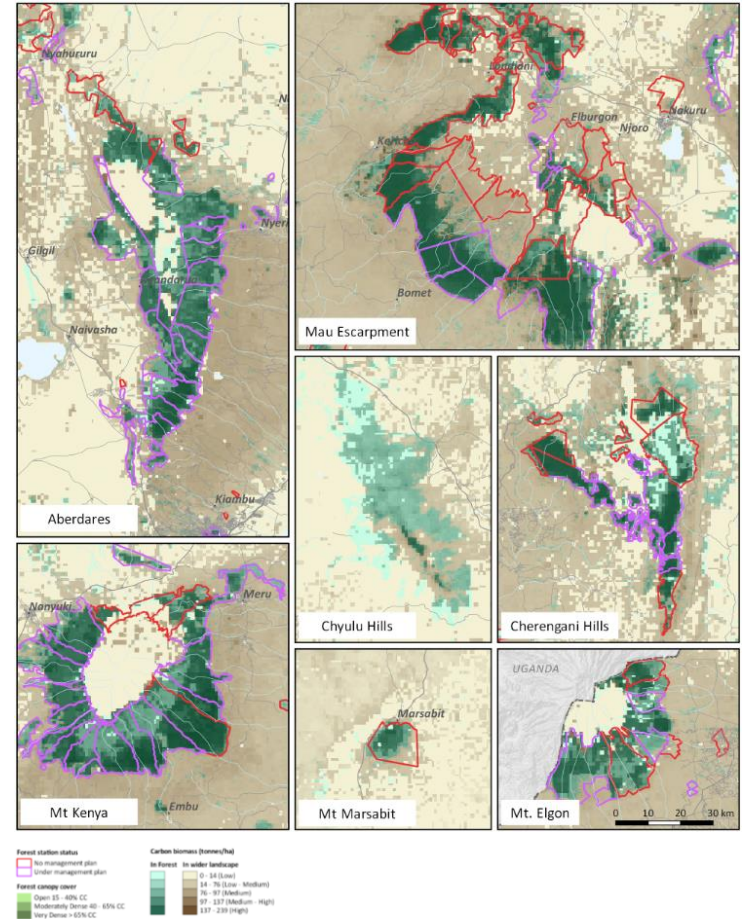
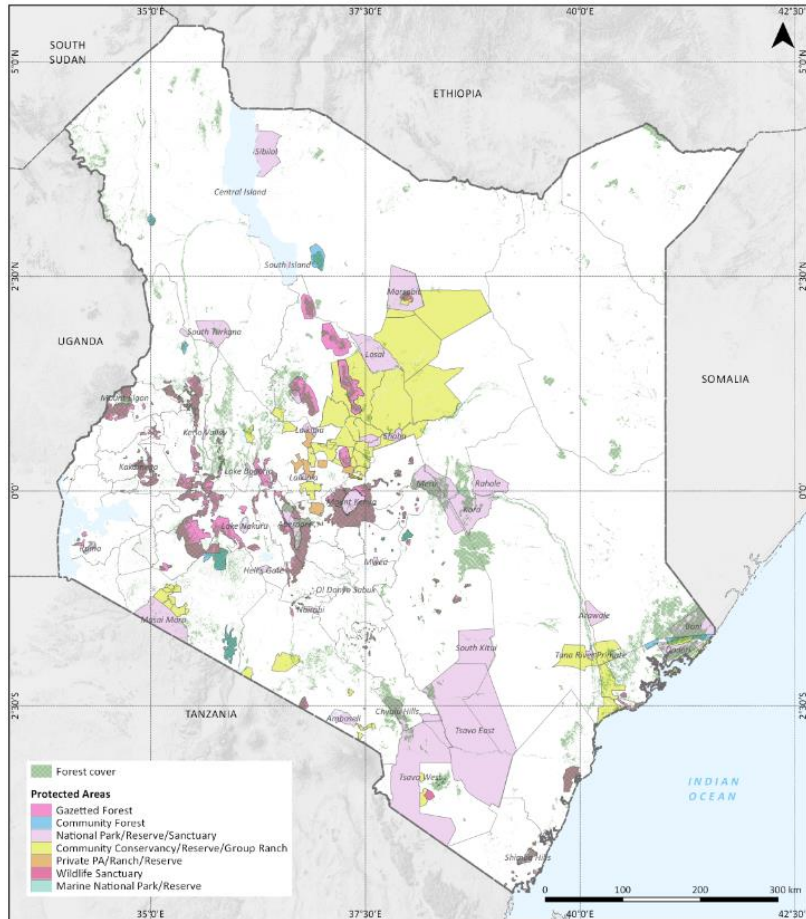
- *What are the critical conditions for the success of the action?*
- *Where are the highest risks for the implementation of the action?*
- *How are the benefits currently distributed?*
- *What are the costs and compromises required for the implementation of the action?*



Where is the forest?

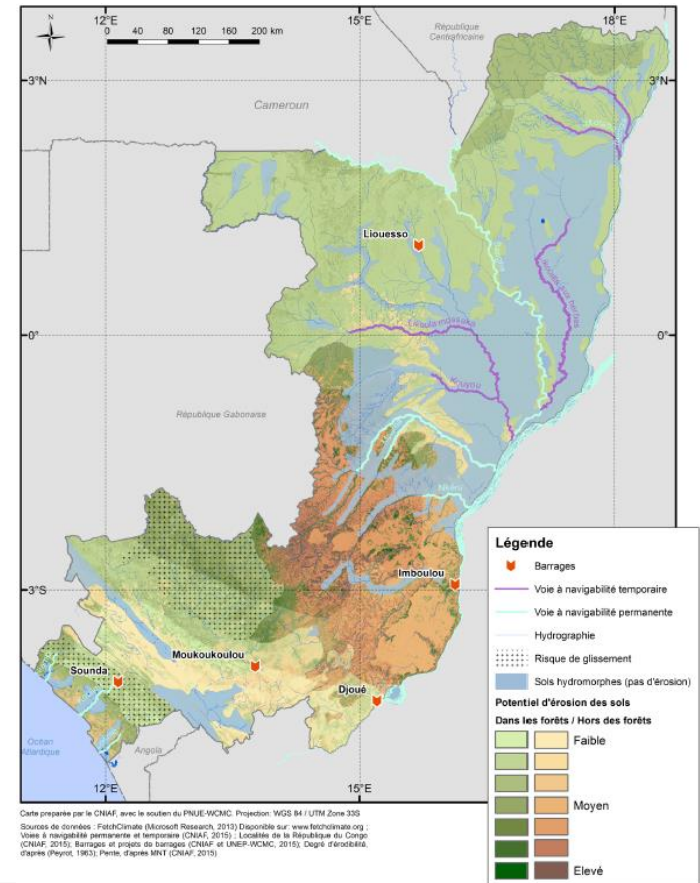


What is the land tenure or the type of management in the forested areas?



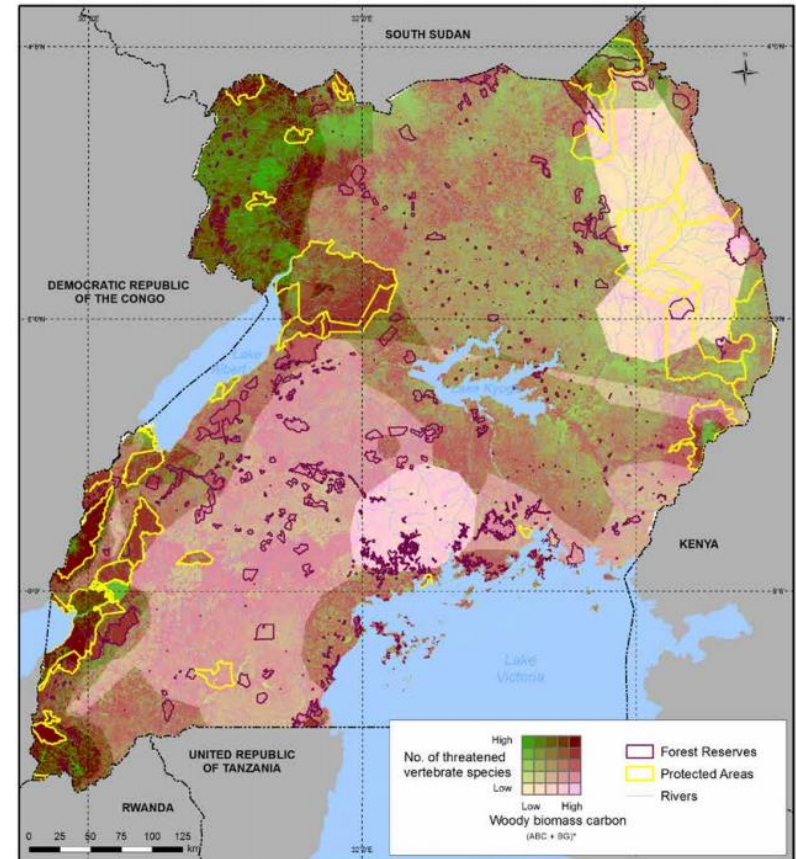
What is the role of forest in soil erosion protection?

- *By utilising slopes, average annual precipitations, we can generate a map of soil erosion risk;*
- *This map shows the soil erosion risk inside and outside the current forest cover*

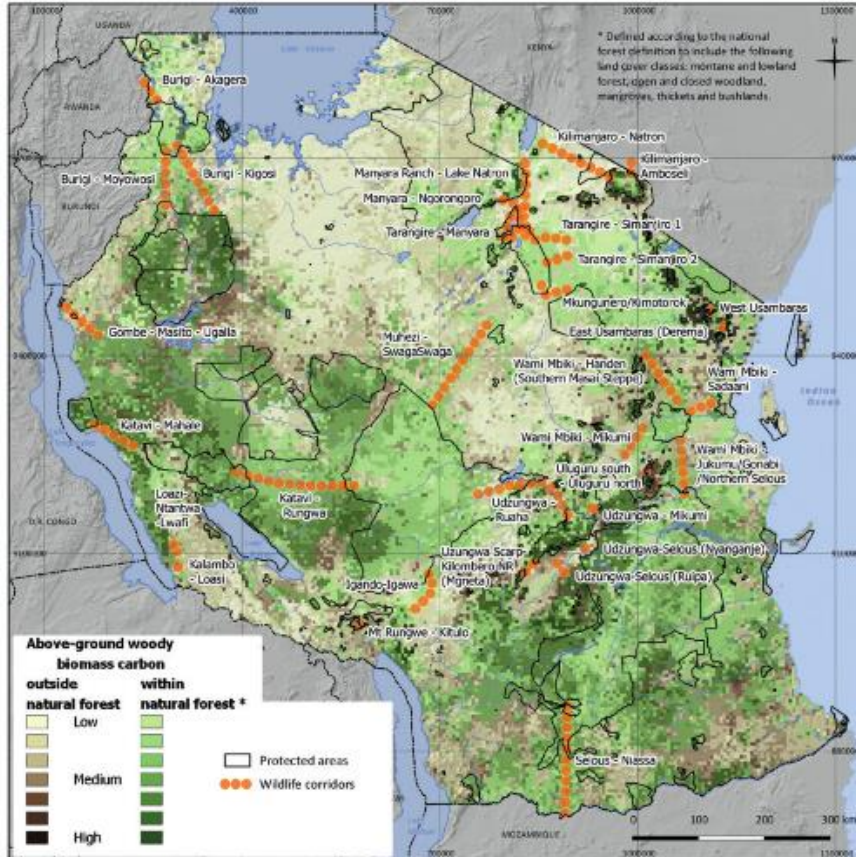


Where are located the areas highly threatened and with high biomass?

- *The IUCN distribution ranges for threatened species are used to generate a species richness index*
- *This layer can be combined with one indicating the distribution of carbon or biomass*



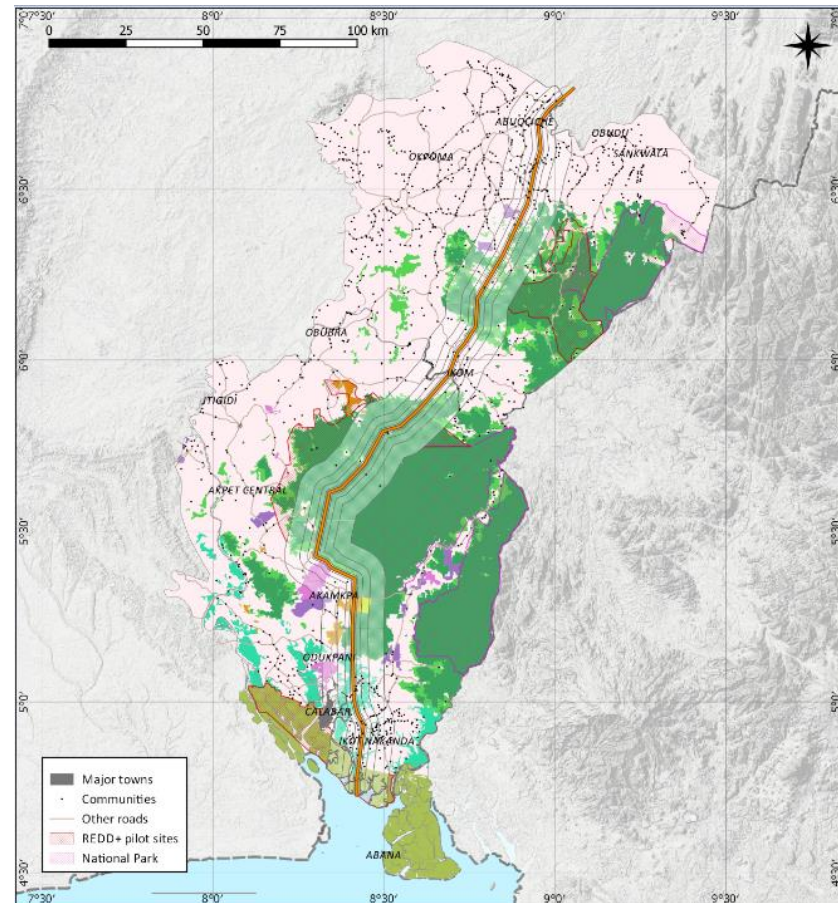
In which regions the forest ecosystems overlaps with wildlife corridors?



- *Carbon, location of natural forest, of protected areas and wildlife corridors*

Impact of infrastructures development on land use and forest cover

- *The map shows future development and the table shows the extent of each land use class affected at different distance for development*

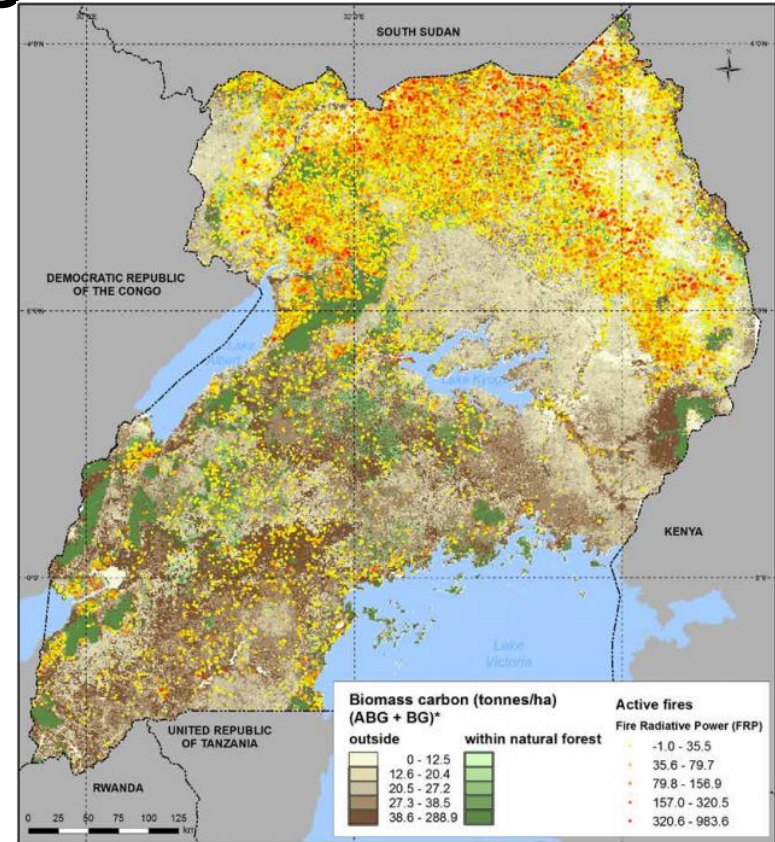


Area (ha) of each land cover class affected by total width of zone cleared for road construction and buffer zones

| | 200m | 500m | 1km | 2km | 5km | 10km | 20km | total land cover |
|----------------------|-------|-------|--------|--------|--------|---------|---------|------------------|
| Tropical High Forest | 1,624 | 4,033 | 8,097 | 16,186 | 42,218 | 91,215 | 192,971 | 640,638 |
| Open Forest | 677 | 1,649 | 3,073 | 5,649 | 12,413 | 19,726 | 33,571 | 120,663 |
| Mangrove | 194 | 475 | 912 | 1,680 | 3,848 | 7,528 | 17,405 | 94,989 |
| Swamps | 285 | 720 | 1,473 | 3,099 | 7,760 | 13,649 | 17,830 | 51,669 |
| Other Land | 2,346 | 5,927 | 12,024 | 24,326 | 59,020 | 113,702 | 224,485 | 1,204,098 |
| Oil Palm | 0 | 0 | 0 | 0 | 277 | 1,675 | 4,734 | 18,567 |
| Gmelina | 108 | 271 | 540 | 1,075 | 2,344 | 3,908 | 5,805 | 10,164 |
| Rubber | 15 | 49 | 121 | 298 | 1,073 | 2,671 | 8,443 | 13,399 |
| Regeneration | 0 | 0 | 0 | 0 | 141 | 1,356 | 1,470 | 1,470 |

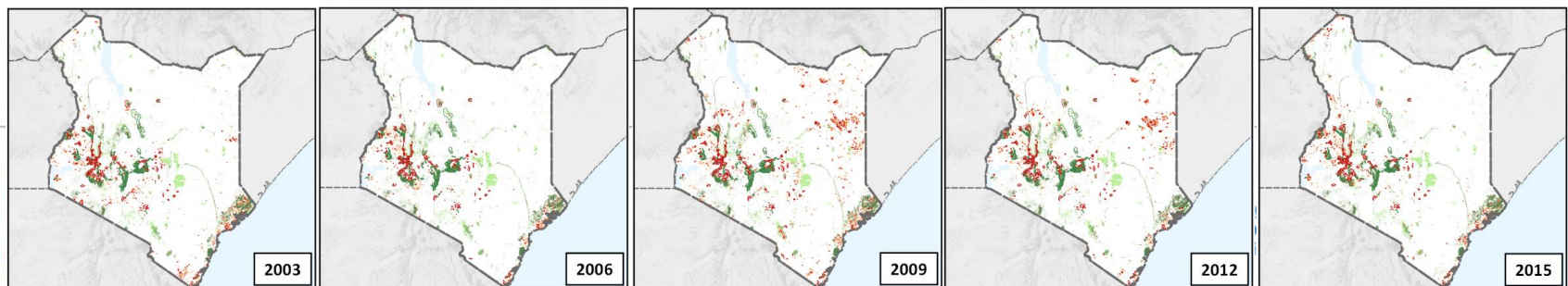
Where are located fires near forested areas?

- *Fires observations subdivided in 5 time series.*



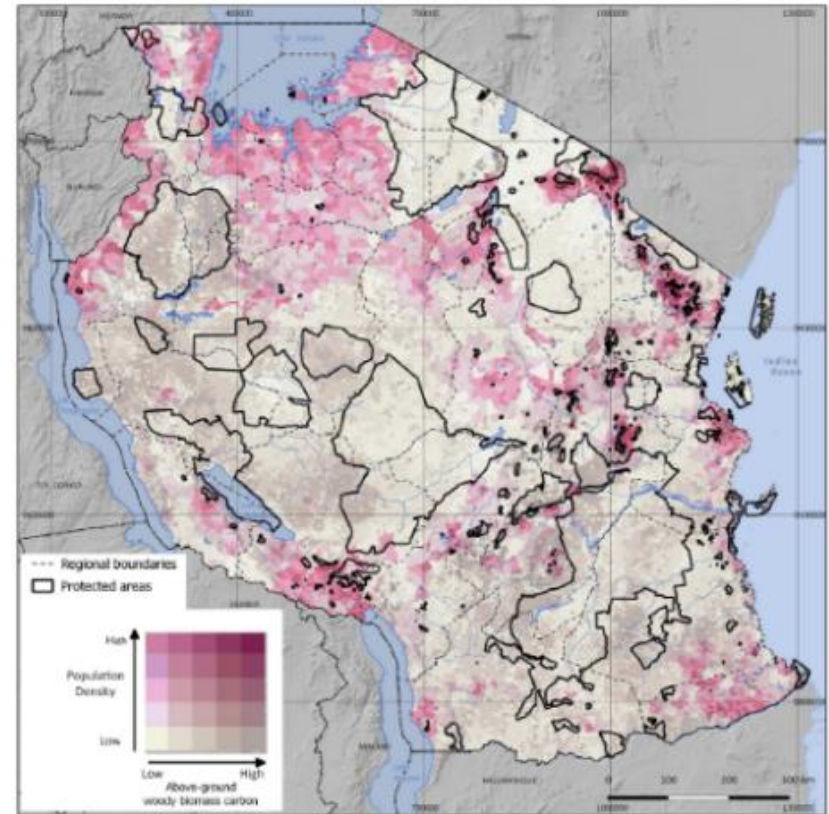
Observed fires in Jan-Mar

Fire Radiative Brightness (FRB): ● < 15.5 ● 15.5 - 24.4 ● 24.4 - 39.1 ● 39.1 - 71 ● > 71



What is the spatial location of population density and biomass?

- *By combining a layer showing the population density and another one the carbon biomass, we can observe where the layers have high or low values*



Spatial workflow

It's a sequence of analytical steps that use data and analyses to generate results, which answer a specific question.

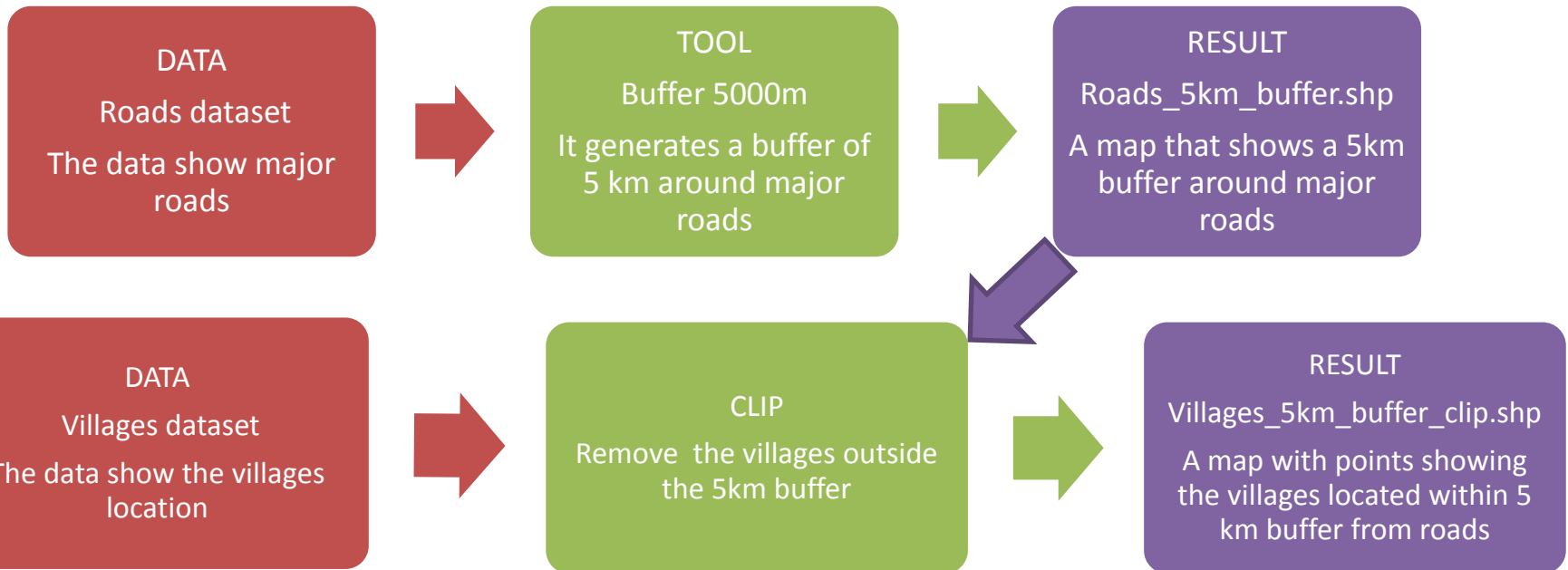
The simplest model includes a list of data, one analysis and one result – for example: “Show a 5km buffer area from a road”



Spatial workflow

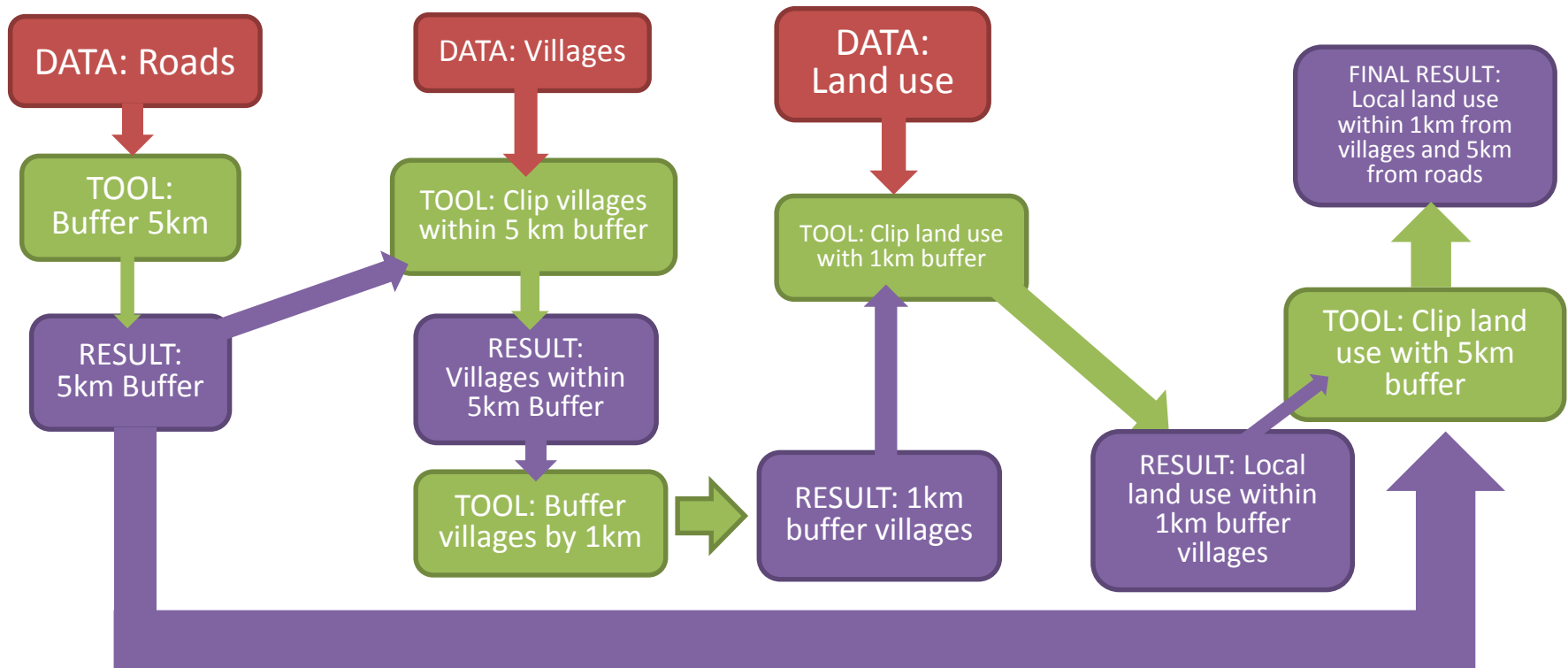
The complexity of the question determines the number of steps necessary to answer the question.

“Which villages are located within a distance of 5 km from the major roads?”



Spatial workflow

“Which villages are located within 5km buffer from major roads and how will they be affected in terms of local land use, within a distance of 1km from the villages?”



Why is this helpful?

- *It helps to define clear and specific questions as well as the information required to answers these questions.*
- *It helps to identify the criteria and conditions that can facilitate the provision of benefits, and it indicates how to measure the benefits*

*These analyses should help to identify **which are the most appropriate areas where to implement the actions** that can provide the benefits identified*



Thank you!

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