



REDD+ FOR THE GUIANA SHIELD

Technical Cooperation Project



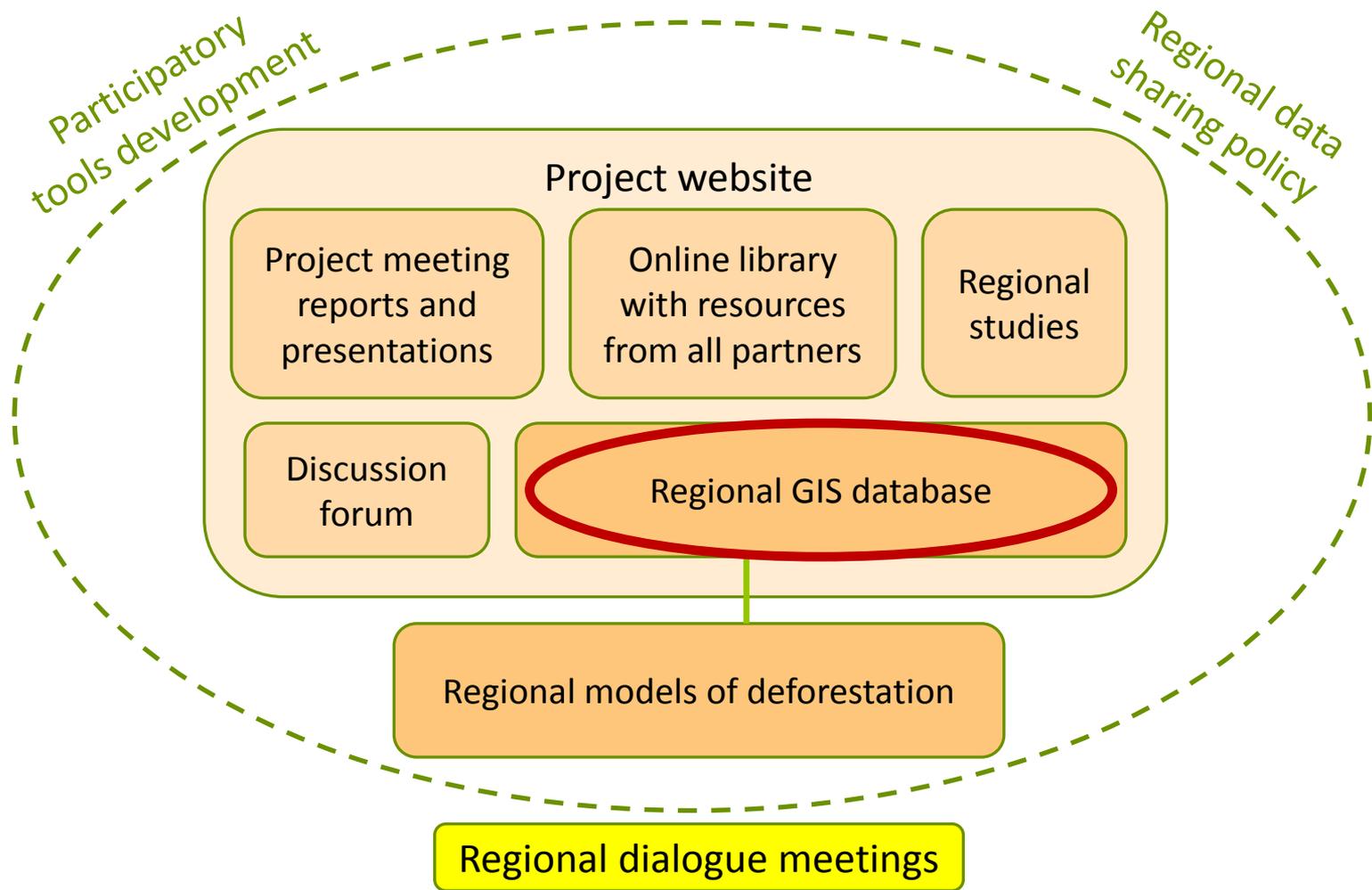
SESSION 5 – Regional GIS database

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3rd SC meeting - Cayenne, French Guiana

Regional tools



Objectives

- Among the regional tools channel, the project aims to develop a spatial database of drivers of deforestation and degradation in the Guiana Shield.
- Its objectives are to:
 - Understand at the regional level, the spatial distribution of the drivers of deforestation and degradation to support the regional dialogue and improve the overall understanding of the impact of different activities source of deforestation and degradation;
 - Better understanding of the availability of data for the Guiana Shield on drivers of deforestation/degradation, in particular to identify the needs for production of additional data;
 - Feeding a spatially explicit model of future deforestation to enable the correlation between factors of deforestation/degradation and predicting variables of deforestation/degradation (e.g. proximity to a road, population density, etc).



What data to be researched?

- The thesis project of Camille Dézecache will serve as guiding principle for the establishment of the database
- The desired data correspond to all the variables that might explain deforestation and that could be correlated with historical maps of deforestation
- To the extent possible, this data should be available for each time point for which a map of deforestation exists (three or four time points to be defined between 2000 and 2012)
- As an example, depending on availability, the following data will be collected :
 - Road network (primary and secondary roads, forest tracks);
 - Hydrographic network;
 - Urban areas;
 - Mining concessions;
 - Permanent forest domain, forest concessions;
 - Natural parks / protected areas;
 - Administrative map;
 - Map of soil fertility and quality;
 - Precipitation map;
 - Agricultural areas;
 - Topography;
 - Map of gold favorability;
 - Demographics;
 - Etc.



Conception and data collection

- ONF Guyane will propose a structure for the database that must be validated by the team of REDD+ project
- The data will be collected under the supervision of PhD student Camille Dezécache facilitated, to the extent possible, by the project leader and the focal points
- The data collected will be forwarded in a systematic way to ONF Guyane, along with a specific identification sheet
- ONF will be in charge of managing the database and ensuring its operation, adding and processing of data; ONFI responsible for creating an online portal to host it
- The database will be developed in QGIS
- During the data collection, special attention will be given to the policy of sharing information



Data homogenization and database management

After receiving data, ONF Guyane will be in charge of:

- **Check the overall quality of the data** (complete and usable data) without going into the detail of the content
- **Process the data** (e.g. modification of the projection) and enter it into the database
- **Spatialize the data** (if non-spatial statistical data) at a level of disaggregation that will have been previously agreed
- The **comparison with other available data on the same factor**, for the country and neighboring countries of the project
- **Select the best data available**, particularly in view of homogenization with data from neighboring countries
- **Study the feasibility of homogenization with data from neighboring countries** and if possible, homogenize the data so as to obtain a usable layer for all of the targeted region
- **Identify the missing data** to obtain a consistent and uniform coverage across all the Guiana Shield



Calendar

	En charge	mai-14	juin-14	juil-14	août-14	sept-14	oct-14	nov-14	déc-14	janv-15	févr-15	mars-15	avr-15	mai-15	juin-15	juil-15	août-15	sept-15	oct-15	nov-15	déc-15	
Conception de la Base de données	ONFG/ CIRAD/ONFI																					
Collecte de données	CIRAD/ONFI																					
Homogénéisation et administration de la Base de données	ONFG																					
Mise en ligne	ONFI																					





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