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A spatial assessment of REDD+ policies in Brazil and the Congo Basin: the REDD-Pac project

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Identify REDD+ policies that are economically efficient, socially acceptable, can safeguard and enhance ecosystem values and help meet the goals of the Convention on Biological Diversity

Provide a global forum for sharing and improving global data on forests and deforestation drivers, and developing best practices for national REDD+ and land-use planning

Nov. 2011- Nov. 2015

Background



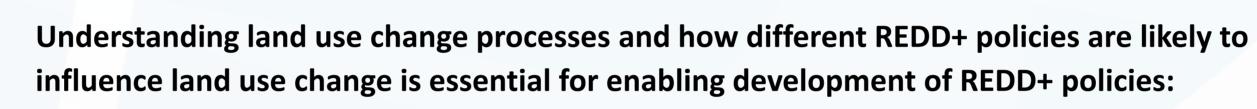
Global forests have lost 130 million hectares between 1990 and 2009 and carbon emissions from deforestation represent around 12% of total global greenhouse gas emissions (FAO 2010; Van der Werf et al. 2009).





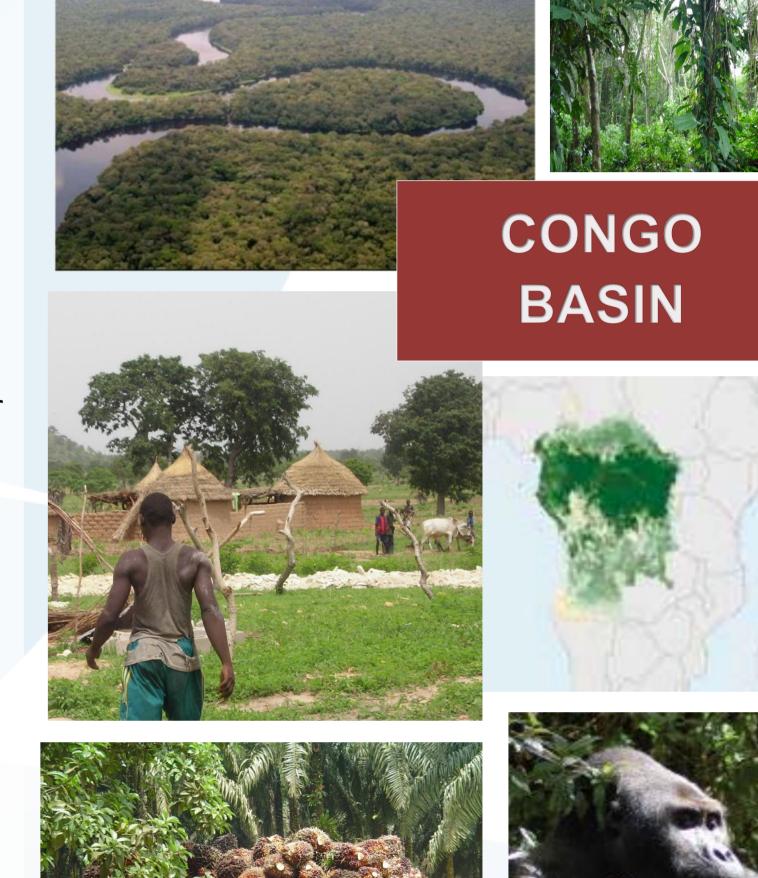






that promote economic development

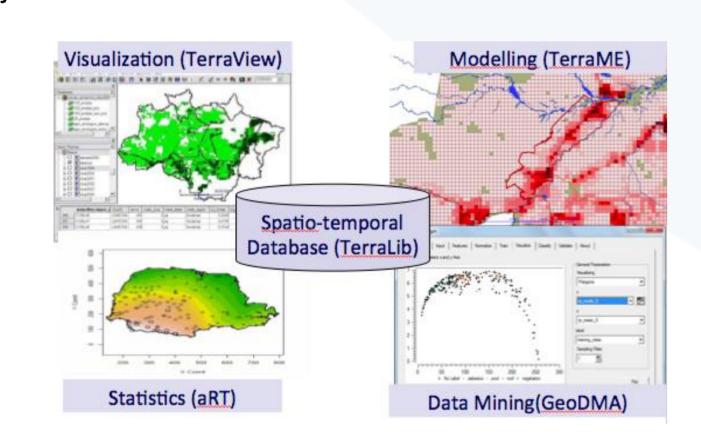
that safeguard and enhance biodiversity and other ecosystem values and help countries to meet the objectives of the UN Convention on Biological diversity (CBD)



Expected Outcomes

DATABASE

The project will leverage INPE's experience with TerraView/TerraLib/TerraMe framework to build the joint REDD-PAC database

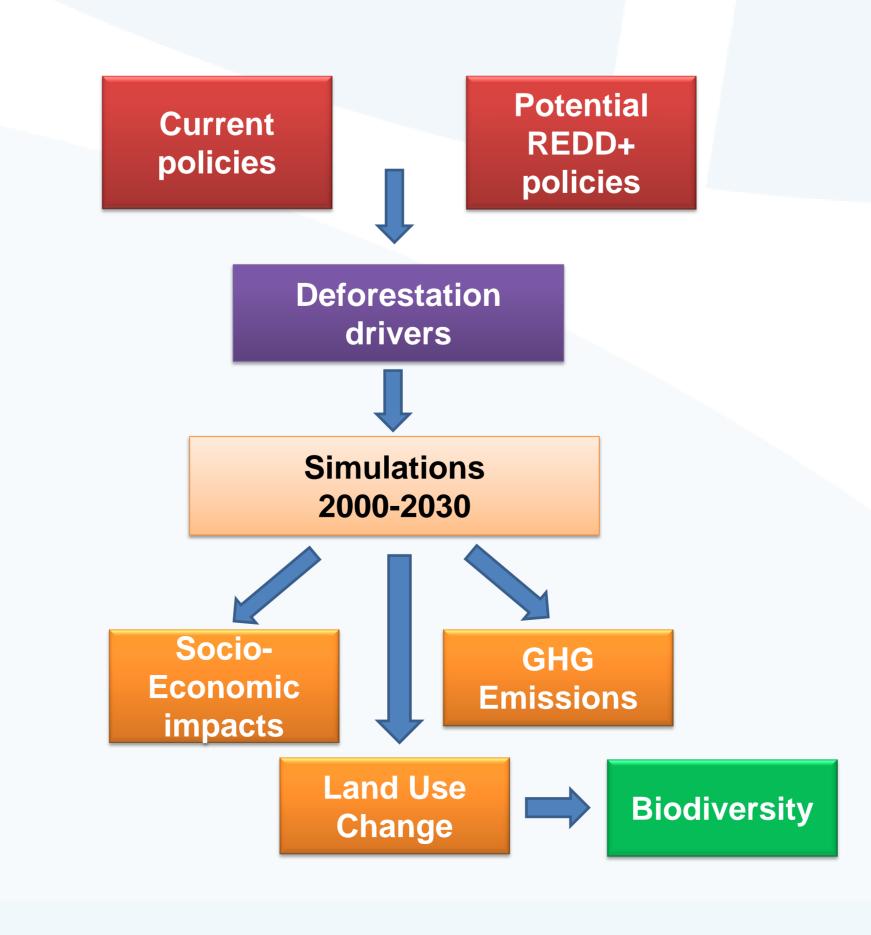


Land cover maps: INPE will improve its geospatial technologies and develop new methods to determine the land uses in each Brazilian biome and an hybrid land cover map will be built at IIASA for the Congo Basin

- Moreover, information will be gathered at the finest resolution possible about :
 - the legal status of the land e.g. protected areas, forest concessions, indigenous reserves etc..
 - the current land-use policies
 - the enforcement of the land use regulations
 - land-based sectors i.e. agriculture, forestry, mining, and bioenergy
 - demography
 - infrastructures
 - **GDP**

Regional / national land use MODELS

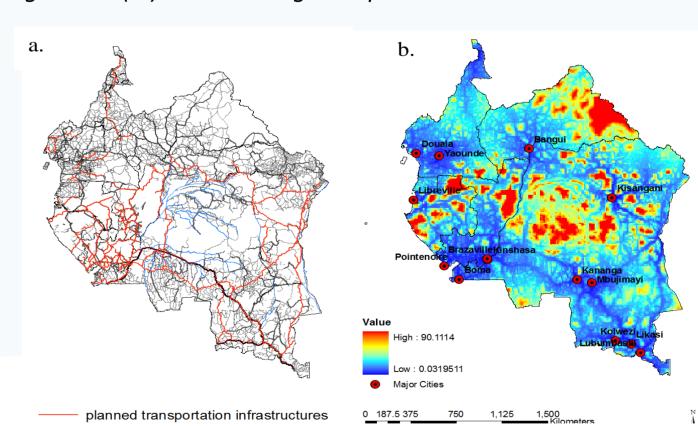
- The project uses **GLOBIOM**, a global, partial equilibrium model including the agriculture, forestry and bioenergy sectors. It is developed at IIASA as a basis to further develop national/regional models
- Detailed land representation will allow representing national/regional specificities while national-international consistency will be ensured through the linkage to the global model
- The land use model will use as input results from biophysical models and will be linked to other models from INPE and UNEP-WCMC (biodiversity models, cellular-automata models, etc...)



SCENARIOS

- Scenarios will be of two types:
 - a no-additional policy scenario that only takes into account the policies which are currently implemented
 - scenarios that test the impact of different policy options, including REDD+ policies

Example of scenario: Realization of new transportation infrastructures in the Congo Basin (a.) and resulting transportation time to the closest city (b.)



 Scenarios will be defined through a consultative process with local stakeholders and workshops will be organized to present the results to the same community









