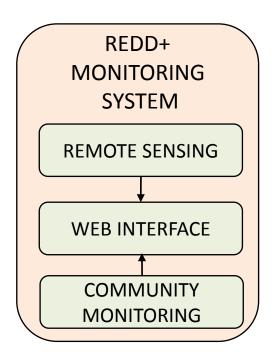


National Forest Monitoring Systems

Rome, 7 May 2012

Forest monitoring system



- Satellite data to monitor REDD+ activities at sub-national (demonstration) and national level
- Disseminated over internet through a web-GIS interface

 Measurements of area change (Activity Data)

ACTIVITY DATA
Satellite Land
Representation System





Monitoring system: the end

- To manage sustainably forest at national level
- To fulfill the requirement of the REDD+ Decision (1/CP.16) (establish an operational NFMS and move towards the phase 2)
- To demonstrate to the international community that the country is monitoring its redd+ activities in a transparent and verifiable way
- To secure funds for the implementation of national REDD+ and forest policies
- To monitor the national forest resources and the impacts of national forest policies

Forest monitoring system: Brazil

- PRODES Amazon Deforestation Monitoring Project (Annual Deforestation Assessment)
- DETER Near real-time
 Deforestation Detection with MODIS
 (Support for Law Enforcement for Deforestation Control)
- DEGRAD Amazon Degradation Monitoring Project
- **DETEX** Selective logging activities
- TerraClass Land use monitoring of deforested area (2008)



http://www.dpi.inpe.br/prodesdigital/prodes.php



FAO-INPE collaboration (Start-up Phase)

Quick implementation of TerraAmazon in UN-REDD countries:

- Free-of-charge and supported by analysis and programming teams in Brazil (INPE) and FAO HQ
- Training on software utilities and Brazilian national forest monitoring techniques at INPE Amazonia, Belem, Brazil DRC, PNG & Vietnam (Sept 2011) Tanzania & Zambia (April 2012) Paraguay (June 2012)
- Follow-up and country implementation in FAO-HQ/country









Web-GIS dissemination portal

- Web portal developed at FAO HQ (GeoSolutions support)
- Allow all end-users to follow and have open access to available forest data, updated frequently to represent national forest conditions

In practice...

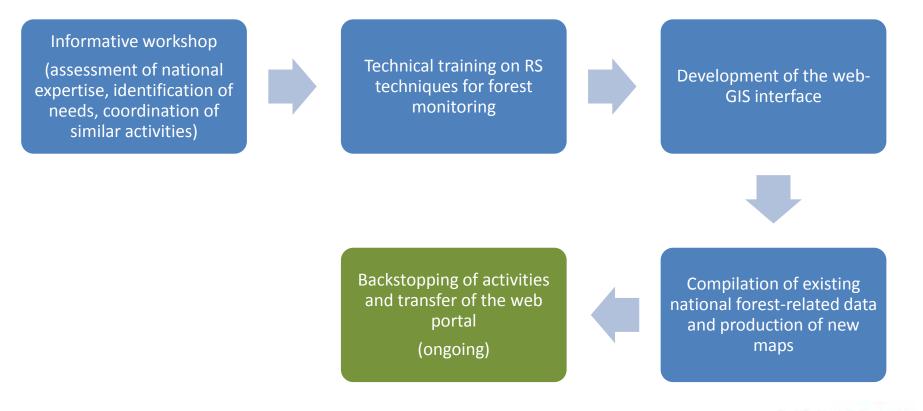
- Visualise information on REDD+ activities, logging concessions, protected areas,...
- Download statistics;
- Provide feedback on areas of deforestation, etc.

Launched in DRC, PNG and Paraguay www.rdc-snsf.org



Monitoring system: Paraguay

Targeted support for the development of the NFMS of Paraguay and the transfer of technologies







Paraguay: RS training

Capacity building

- Two weeks training in Asuncion
- About 20 technical experts from SEAM, INFONA, UNA
- 3 RS experts from FAO (FRA, FIN &UNREDD)
- Only free available software and open-source tools (TerraAmazon & Open Foris)

Results

 Development of methodologies for forest monitoring in Paraguay

http://km.fao.org/OFwiki/index.php/En_ Espa%C3%B1ol

- Production of wall-to-wall Landsat image compositions for the year 1990, 2000, 2005 and 2010
- Production of forest and forest change maps for a sub-region
- Autonomous and sustainable capacities to manage, process and analyze satellite data



Paraguay: web-GIS interface

http://paraguay-smf.org
(frequently updated!)









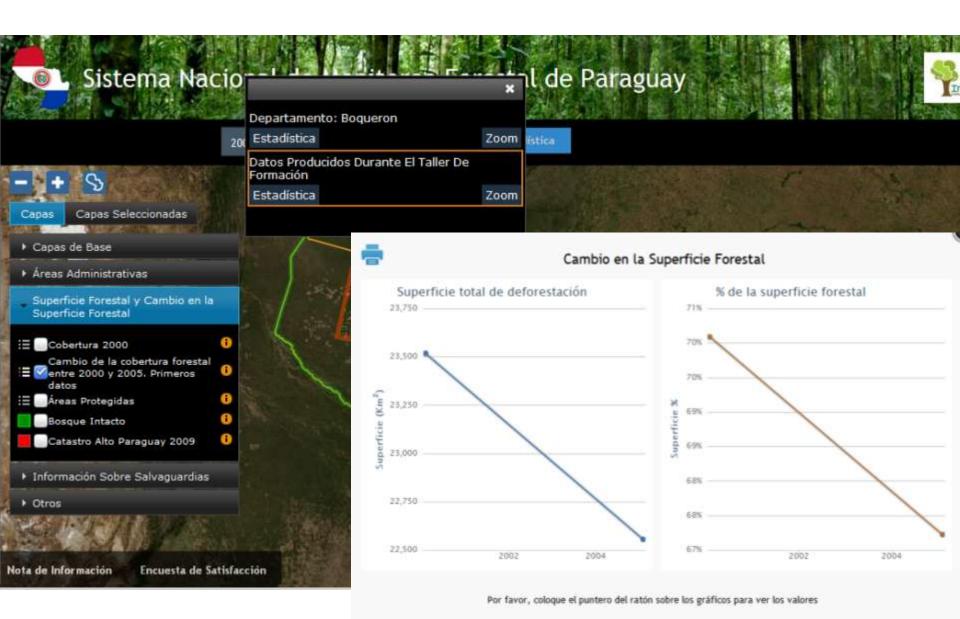


Sistema nacional de monitoreo forestal

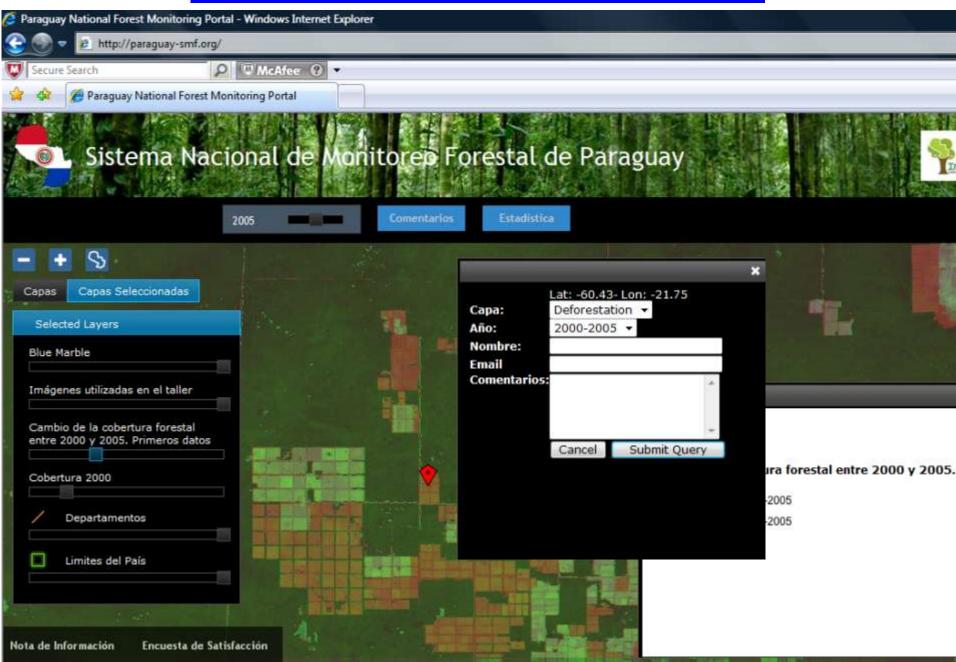


http://paraguay-smf.org

(en desarrollo continuo!)



http://paraguay-smf.org





Thank you for your attention

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