

National MRV System
Social and Environment Safeguards Workshop

Workshop Document

11 September 2013, Grand Papua Hotel



Office of Climate Change and Development Papua New Guinea

Joe Pokana
occd

HIGHLY CONFIDENTIAL

Not to be quoted without permission of the Office of Climate Change and Development of Papua New Guinea

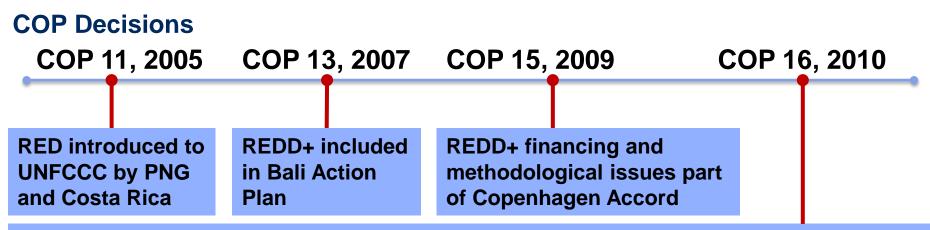
jnpokana@gmail.com





- 2. UN-REDD National Programme
- 3. National Monitoring System





Section C: "Policy approaches and positive incentives on issues relating to reducing emissions from deforestation and forest degradation in developing countries; and the role of conservation, sustainable management of forests and enhancement of forest carbon stocks in developing countries"

REDD+

- → National forest monitoring system for the monitoring of REDD+ activities
- → REDD+ safeguards should be **promoted and supported** (paragraph 69)
- → Countries should develop a <u>system for providing information</u> on how the REDD+ safeguards are being <u>addressed and respected</u> (paragraph 71(d))

Annex I: Guidance and safeguards for REDD+

COP Decisions

COP 17, Durban 2011

COP 18, Doha 2012 COP 19, Warsaw 2013

Safeguards information systems and modalities relating to reference levels

- SBSTA focused on modalities for national forest monitoring systems and measurement, reporting and verification (MRV)
- + focus on financing of REDD+



REDD+ Safeguards Cancun Agreements

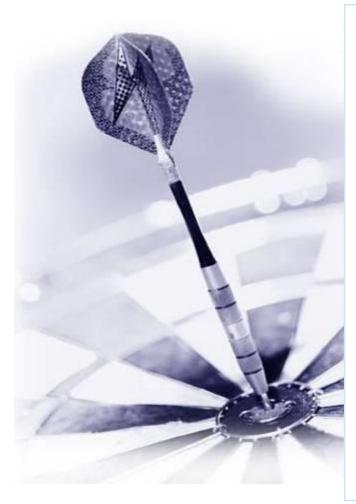
The seven Cancun Agreements (Decision 1/CP.16) REDD+ safeguards

- a) Consistent with the objectives of NFPs and international agreements
- b) Transparent and effective national forest governance structures
- C) Respect for the knowledge and rights of indigenous peoples and local communities
- d) The full and effective participation of relevant stakeholders
- e) Consistent with the conservation of natural forests and biological diversity
- f) Actions to address the risks of reversals (permanence)
- g) Actions to reduce displacement of emissions (leakage)

How can forest monitoring help [promote/support/address/respect] the REDD+ safeguards?



Objectives of PNG's UN-REDD National Programme



- Support the Government of PNG to progress its activities towards REDDplus readiness
- Complement existing efforts to establish a REDD-plus framework in PNG, including efforts from GoPNG, civil society, the private sector and development partners
- Focus on the refinement and implementation of a full MRV roadmap for PNG that supports PNG's overall REDD framework and readiness efforts

PNG's UN-REDD NPD has been in development since 2009

PNG's UN-REDD NPD formulation and validation process

2009

Joint Programme proposal formulation begins

Presented to Policy Board

2010

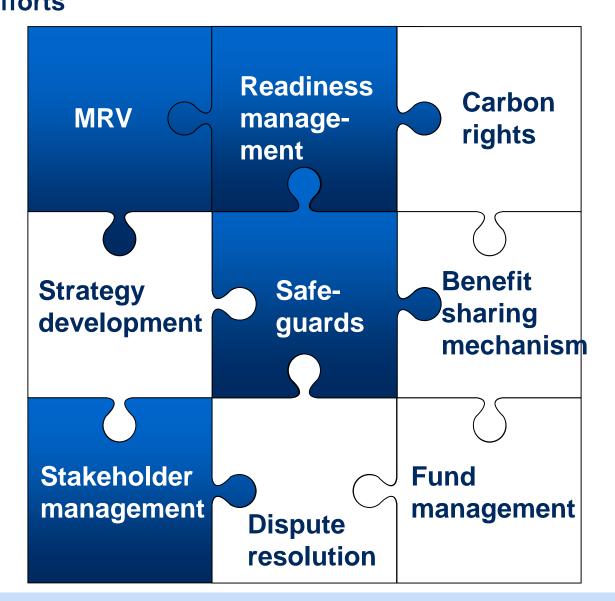
- GoPNG opts to review Proposal (National Programme Document) to align funding request with country needs
- Agreement to focus NPD on developing an MRV system for PNG
- NPD submitted to Policy Board

2011

- NPD conditionally approved by Policy Board
- OCCD revises Proposal and launches 1-month review period
- Validation workshop in Feb 2011 finalises NPD with stakeholder inputs incorporated
- Policy Board approves PNG's UN-REDD NPD on 28 Apr 2011

The UN-REDD National Programme is just one contribution to PNG's readiness efforts

UN-REDD



PNG's UN-REDD NP is expected to deliver on five outcomes

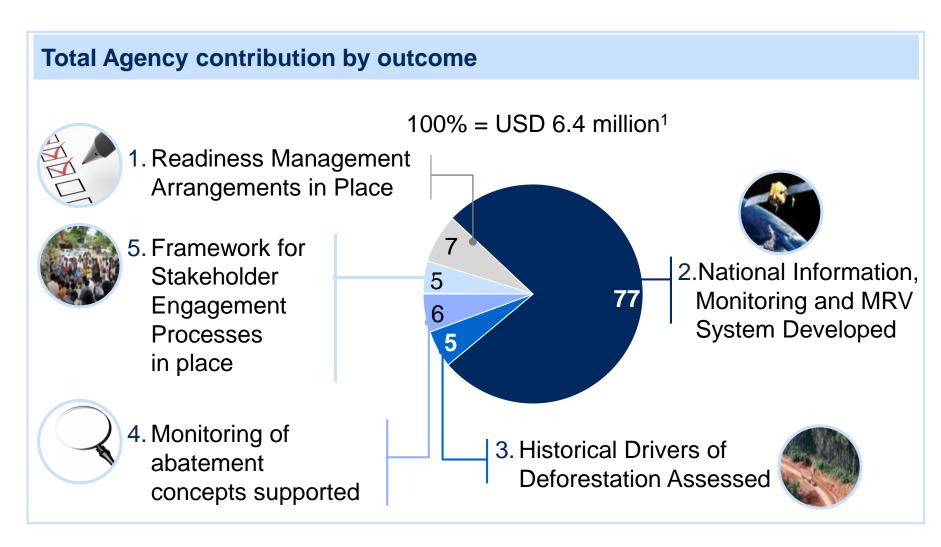
Outcome	Lead UN Agency	Potential Implementing Partners
1. Readiness Management Arrangements in Place	<u>U</u> N D P	DNPMOCCD
2. National MRV System Developed	F O PANS	DEC • UPNG • PNGFADAL • OCCDDLPP • UNITECH
3. Historical Drivers of Deforestation Assessed	F O PANS	PNGFA • UPNGDALOCCD
4. Monitoring of Abatement Concepts Supported	F AO	PNGFAOCCD
5. Framework for Stakeholder Engagement Processes in place	<u>U N</u> D P	• OCCD

Each outcome fits into a part of PNG's climate change priorities

		Priorities for 2011	Relevant UN-REDD NP Outcome
	REDD+	 REDD+ pilots for key abatement levers REDD+ readiness, e.g., benefit sharing approach 	1. Readiness Management Arrangements in Place
	Low- carbon growth	 Rural electrification, e.g., new micro hydro plants Energy efficiency measures Renewable Energy, e.g., geothermal 	Deforestation Assessed 4. Monitoring of
	Adapta -tion	 Mangrove planting Coastal Early Warning System Food security and agricultural yield changes 	Abatement Concepts Supported
-1	MRV & Cons.	 MRV System Consultation, education, awareness Second National Communication 	2. National MRV System Developed 5. Framework for Stakeholder
Others		 A number of priorities, e.g., Securing interim funding of USD 50 million Draft Climate Change Act 	Engagement Processes in place

The National Programme allocates funding to 5 outcomes

USD Millions



1 Includes 7% Agency indirect support costs

SOURCE: UN-REDD National Programme Document



Towards REDD+: the Papua New Guinea efforts in building its National Forest Monitoring System





HIGHLIGHTS:



• PNG is realizing its "National Forest Monitoring System" as a system that will address all the information, monitoring and MRV needs under the Convention;



• The National Forest Monitoring System will be developed with a multiple purposes approach, e.g. forests, land use, land tenure, food security, biodiversity and rural livelihoods;



• The National Forest Monitoring System is a long-term effort that will be developed with a clear and strong institutional base;



• The design and implementation of the National Forest Monitoring System is including a full and effective participation and capacity development of all relevant institutions and stakeholders;



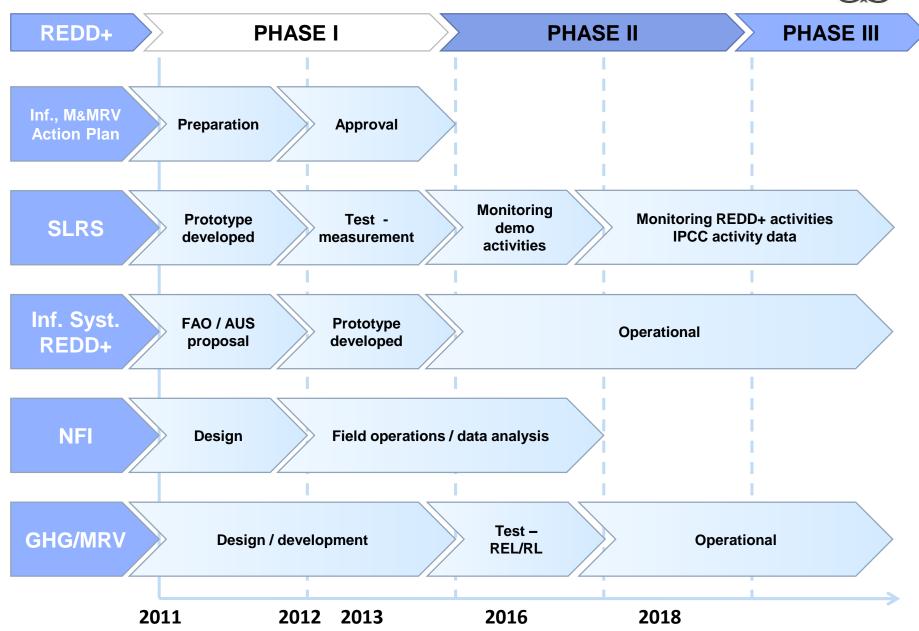
• The National Forest Monitoring System will provide free access, transparency and timely delivery of all relevant data and information to all relevant stakeholders;



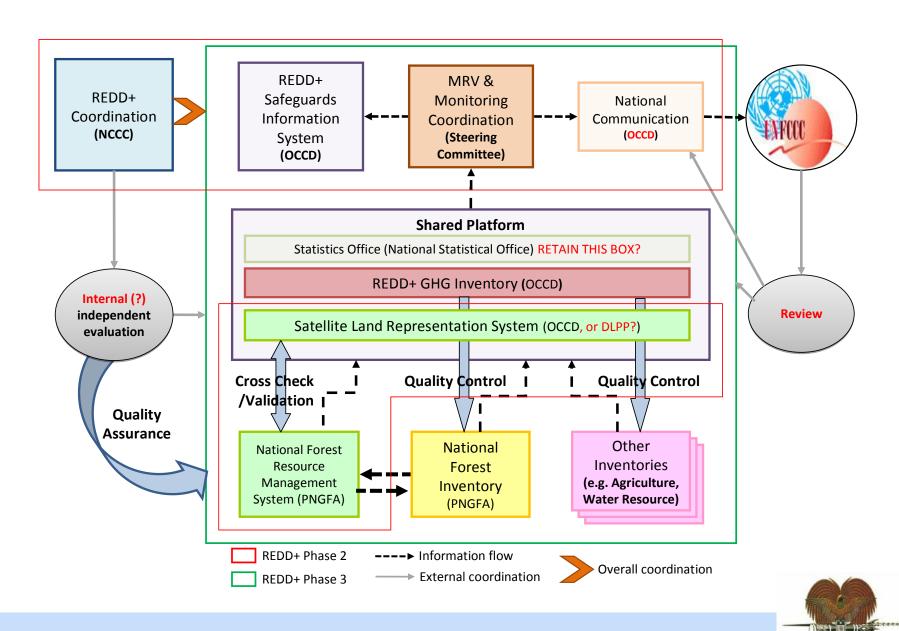
• The National Forest Monitoring System is currently under development with contributions and supports from UN-REDD Programme, AusAID (Australia), and JICA (Japan).

PNG INFORMATION, MONITORING & MRV ROAD MAP

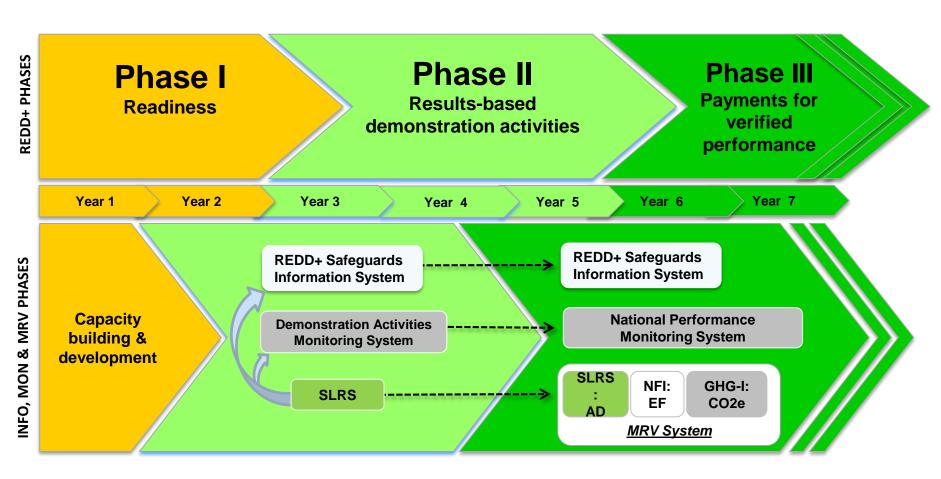




INSTITUTIONAL ARRANGEMENT:



REDD+ PHASES & NFMS ELEMENTS: Bringing it all together





ONGOING ACTIVITIES:



• MRV Technical Working Group: coordinated by OCCD with the participation of all the country relevant stakeholders;



• NEW 2011 Forest Map: coordinated by PNG Forest Authority with technical support from JICA. This map will be use as baseline to assess past and future forest changes;



• 1st National Forest Inventory: coordinated by PNG Forest Authority with technical support from UN-REDD. The NFI it will be the key element to assess forest related emission/removal factors



• 1st Information, Monitoring & MRV Action Plan: coordinated by OCCD participation of all relevant country institutions and relevant stakeholders;



• Prototype for a Satellite Land Monitoring System: coordinated by OCCD with technical support from UN-REDD and INPE. A team of PNG experts has attended a course in Brazil, the beta version of the prototype with its web-portal have been presented in Durban in COP17

START-UP PHASE: development of a prototype for the National Forest Monitoring System

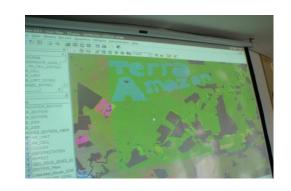
- Build on existing national forest monitoring experiences
- FAO (UN-REDD) / INPE collaboration
- Two components: TerraPapua platform

National forest monitoring WEB-Portal

- Combination of open-source database, user interface, tools and algorithms adapted according to country needs
- Free-of-charge and supported by analysis and programming teams in Brazil (INPE) and FAO
- linkage of information from other technical partners and contributors for analysis and verification.



TERRAPAPUA PLATFORM:



- Application of INPE national forest monitoring techniques and satellite image processing to PNG context (TerraAmazon software platform)
- Two weeks training on software utilities at INPE Amazonia, Belem, Brazil (Sept 2011)
- Follow-up and country implementation in FAO-HQ (on going in Rome, 21Nov-2Dec 2011)



BUILD ON TERRAAMAZON PLATFORM:

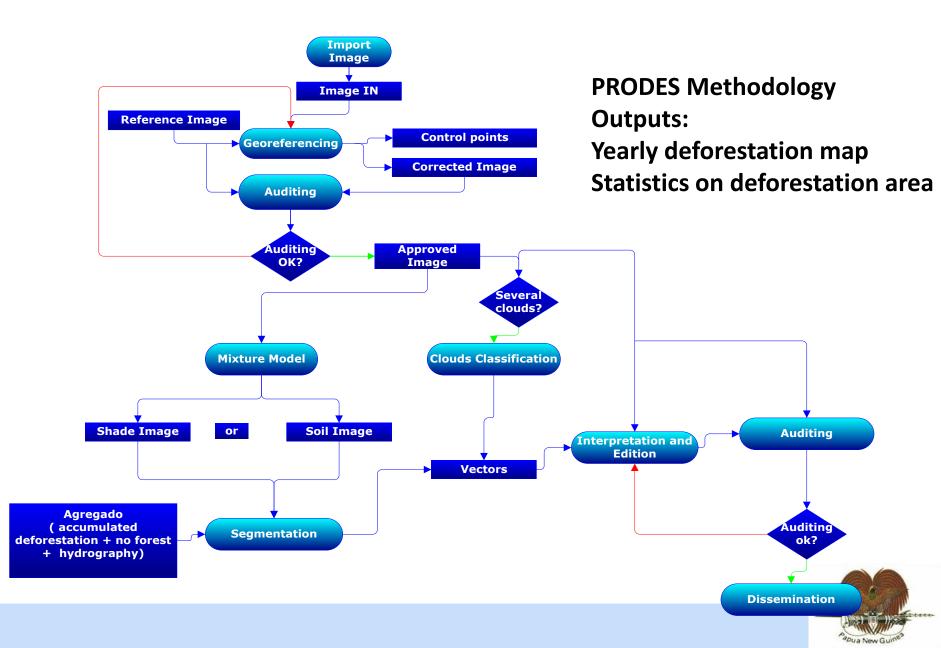




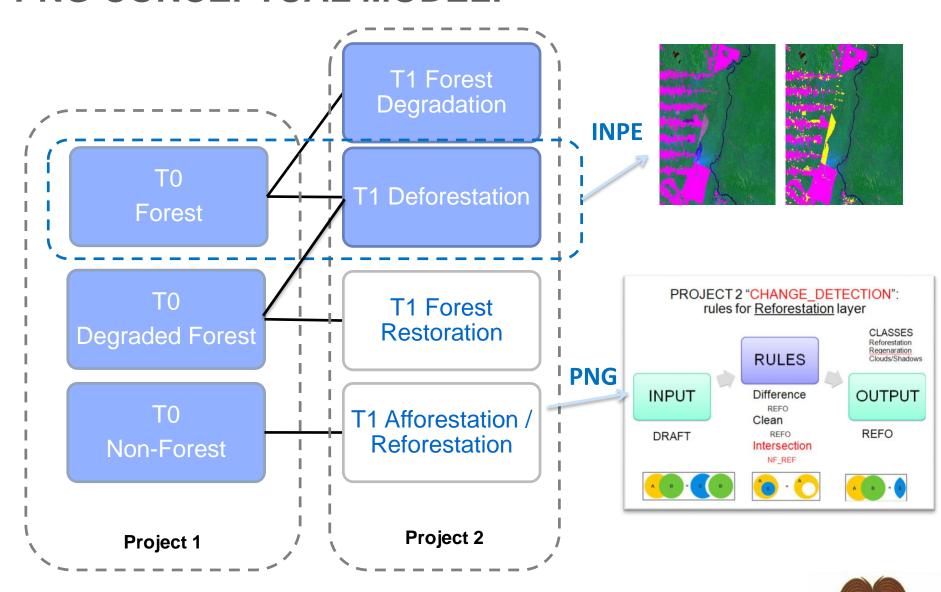
- RS/GIS software platform designed to be a multi-user editor of geographic vectorial data stored in a unified database
- Free of charge (open-source)
- Self sustaining system (open to improvements)
- Up to 20 concurrent users during the interpretation phase



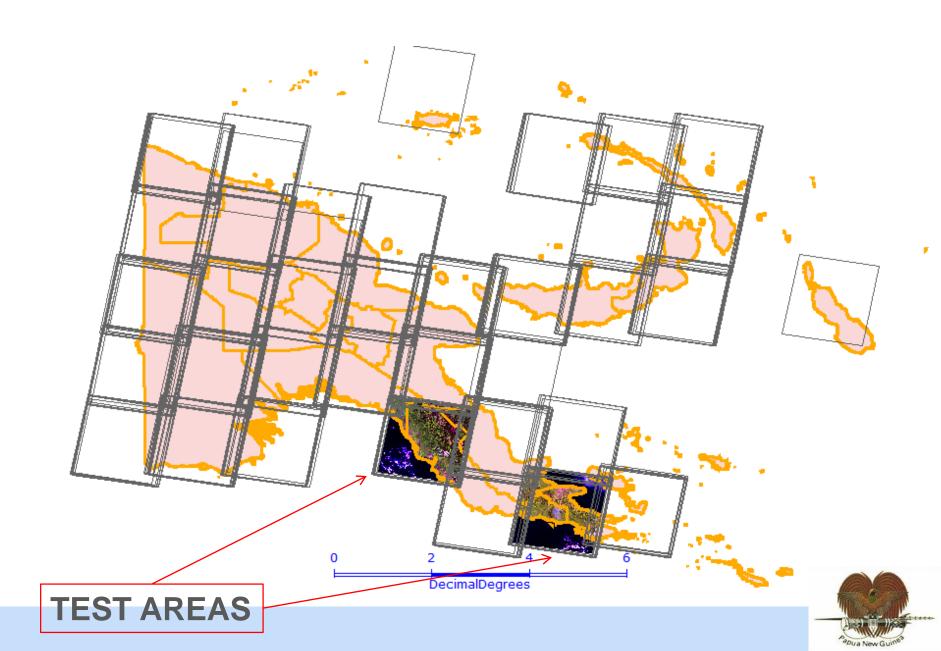
TERRAAMAZON IN BRAZIL:



PNG CONCEPTUAL MODEL:

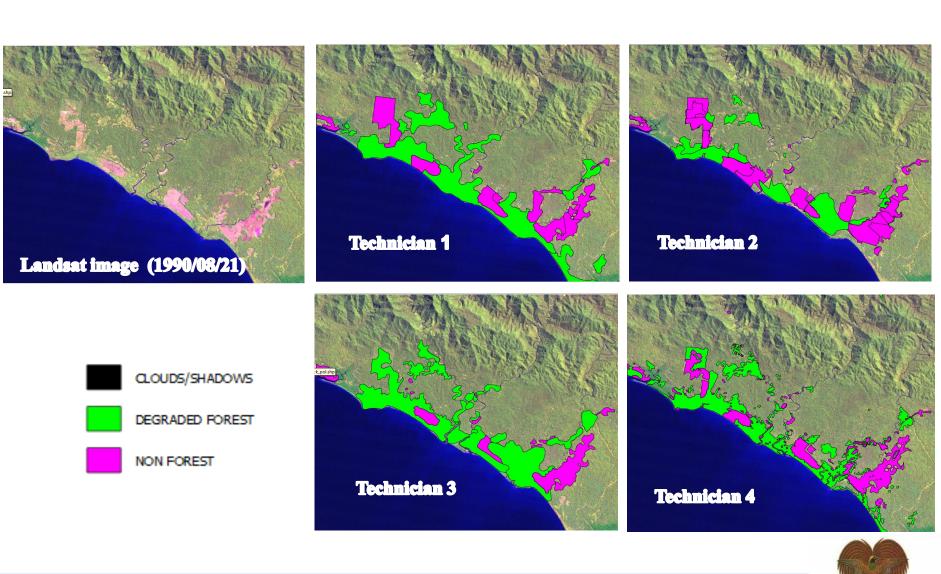


TERRA-PAPUA WORKSHOP FAO HQ, 21Nov.-2Dec2011:



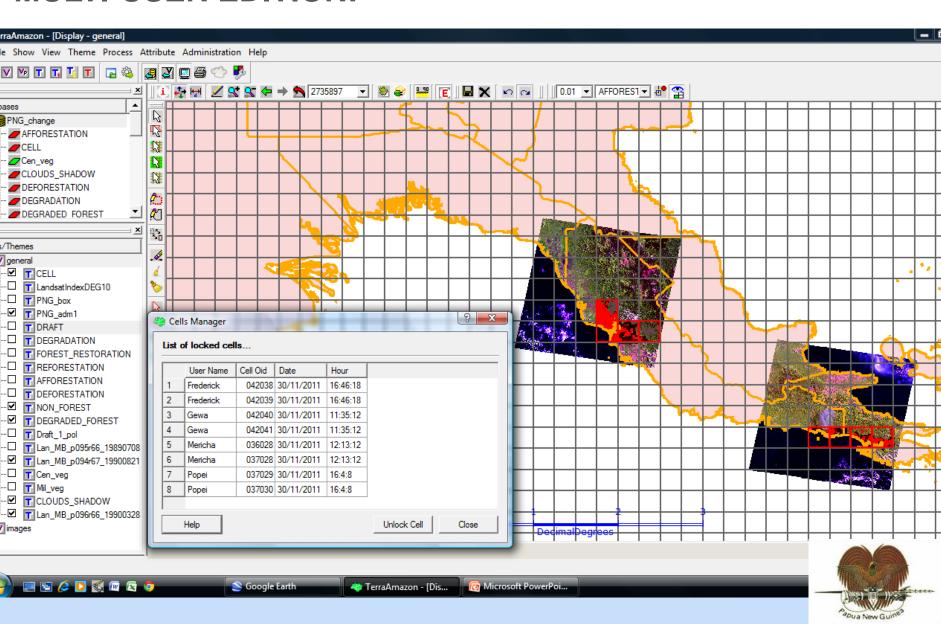
TERRA-PAPUA WORKSHOP CALIBRATION OF IMAGE INTERPRETATION:

FAO HQ, 21Nov.-2Dec2011



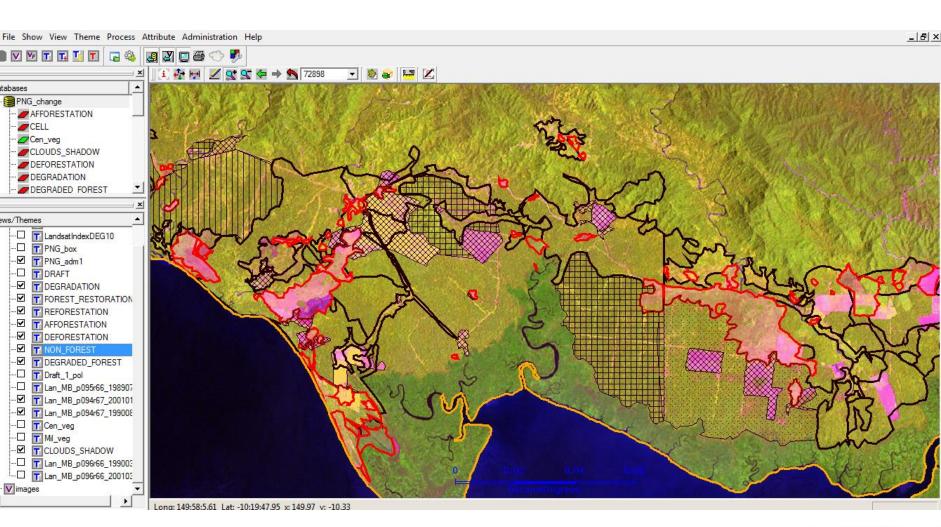
TERRA-PAPUA WORKSHOP MULTI-USER EDITION:

FAO HQ, 21Nov.-2Dec2011



TERRA-PAPUA WORKSHOP RESULTS:

FAO HQ, 21Nov.–2Dec2011





PAPUA NEW GUINEA NATIONAL FOREST MONITORING WEB-PORTAL:

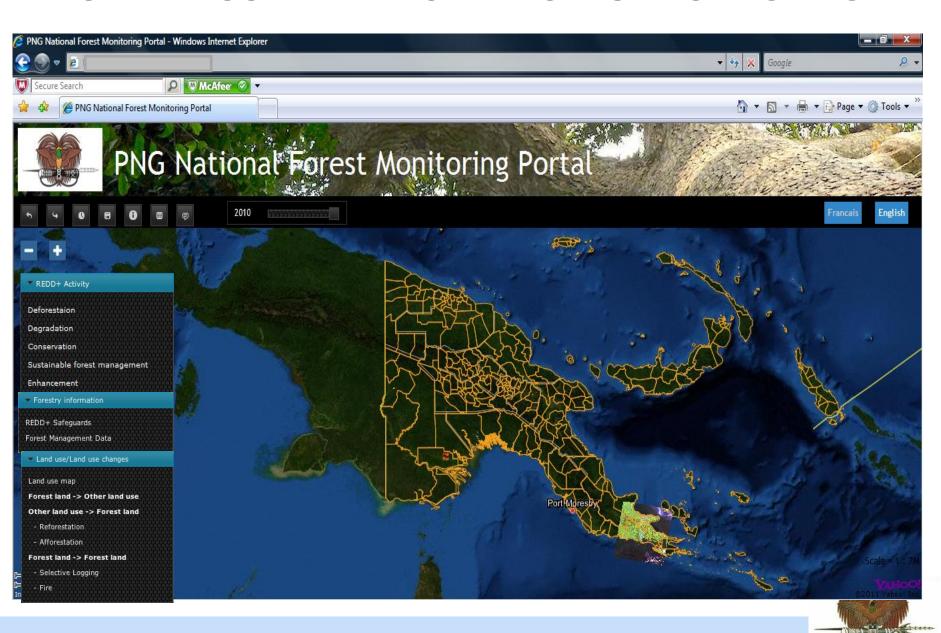
- Web portal under development through the support of FAO, UN-REDD Programme, expected to be on-line June 2012
- Enable the country to follow all the actions related to the implementation of its national REDD+ policies and measures and to communicate its results to the international community (transparent and open data access)

In practice...

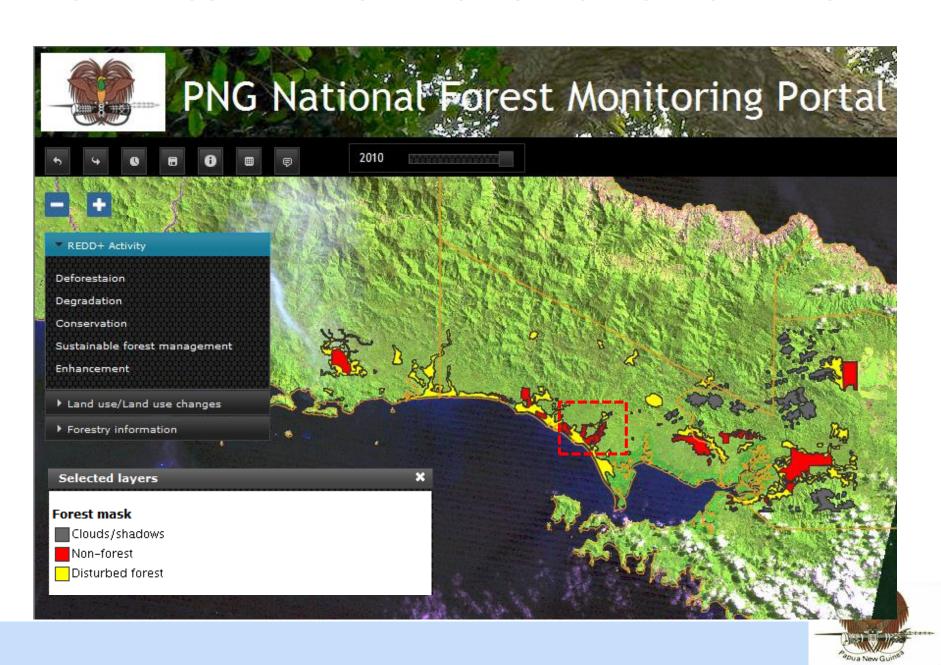
- Allow any user to interact with the system through a web-interface;
- Visualise data; download statistics; visualise information on logging concessions, protected areas, REDD+ activities,....
- Allow users to provide feedback on areas of deforestation, etc.



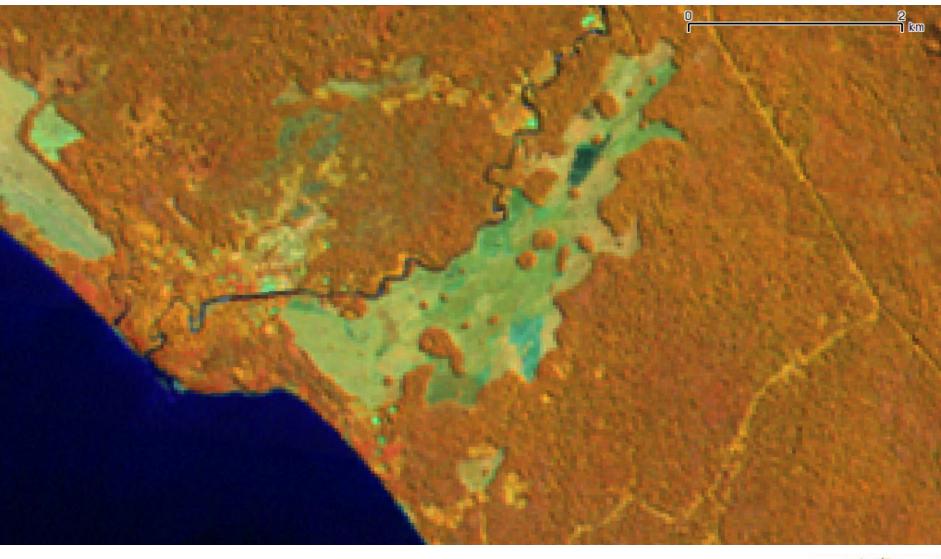
PAPUA NEW GUINEA NATIONAL FOREST MONITORING WEB



PAPUA NEW GUINEA NATIONAL FOREST MONITORING WEB-PORTAL:

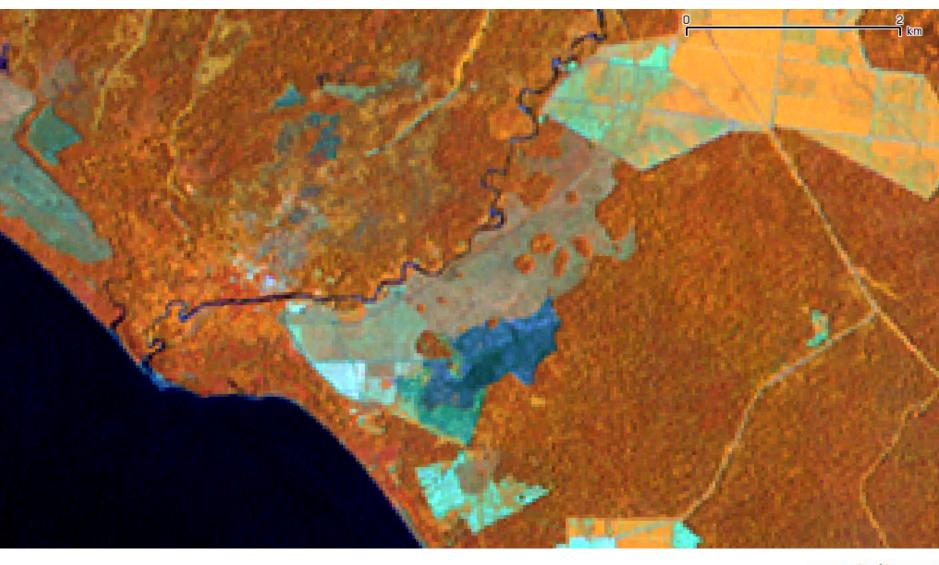


LANDSAT 1990



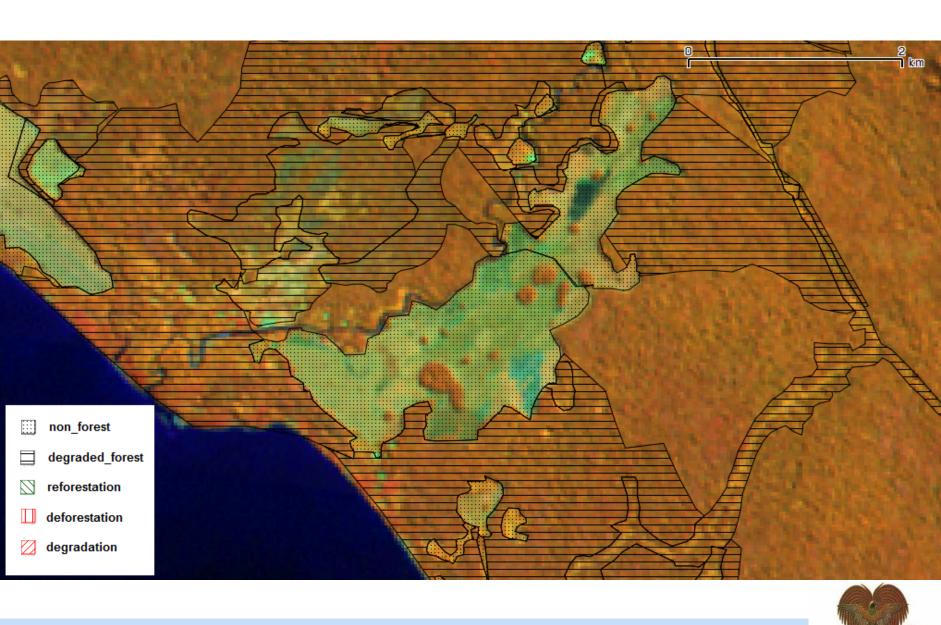


LANDSAT 2000

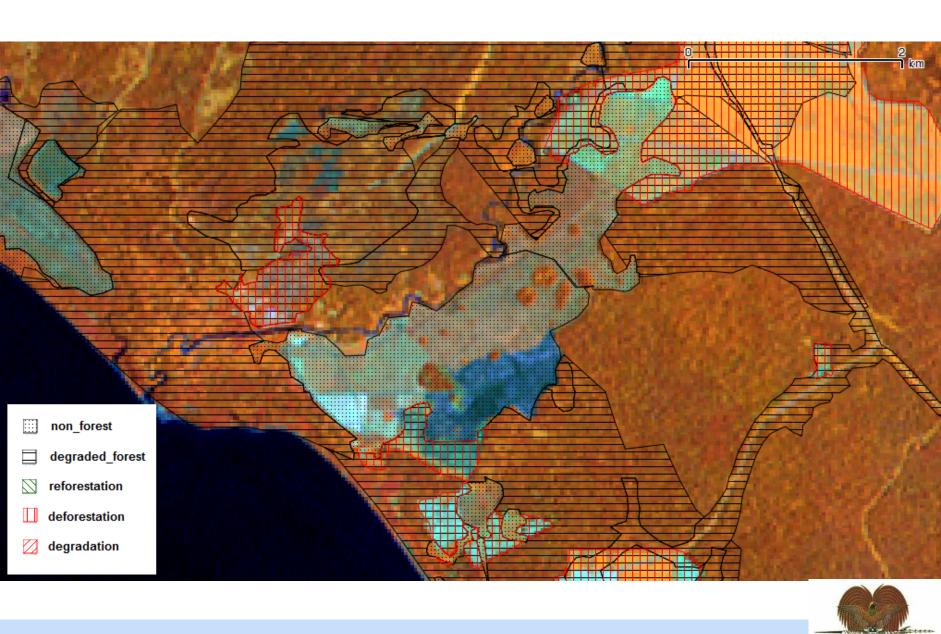




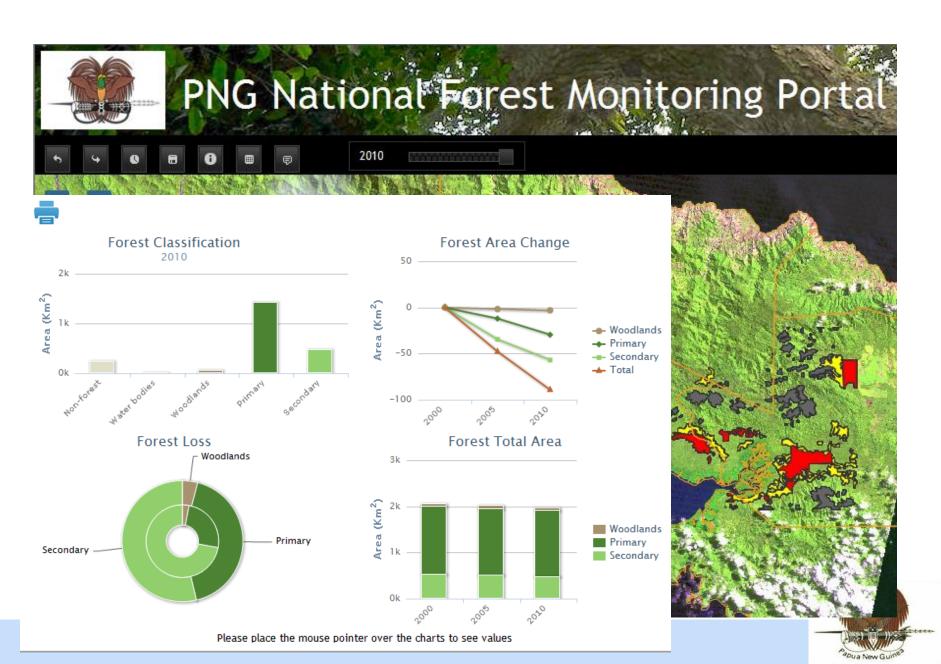
LAND USE ASSESSMENT 1990



LAND USE ASSESSMENT 2000



PAPUA NEW GUINEA NATIONAL FOREST MONITORING PORTAL:



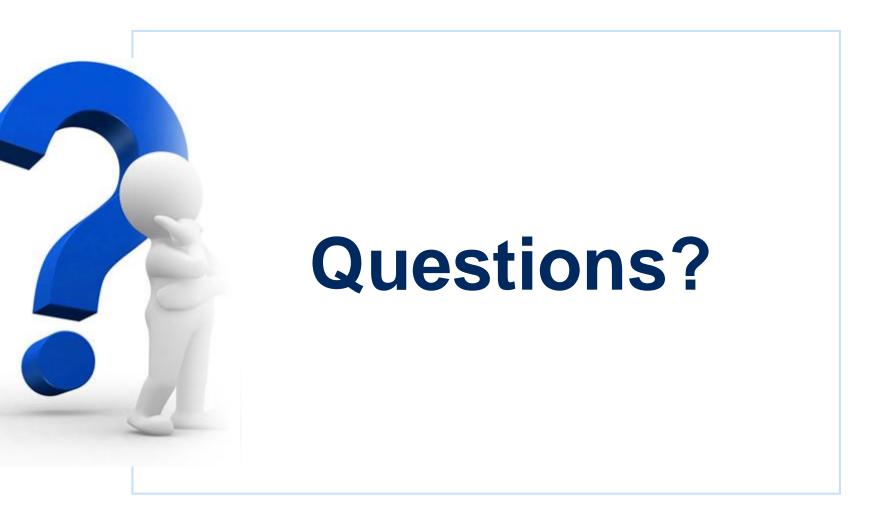
Summary

- 1
- Forest monitoring is required to assess the outcomes of REDD+ activities
- Are the activities working??
- Porest monitoring can also provide useful information on the REDD+ safeguards
- Online "web-GIS portals" can allow open access to forest monitoring (and therefore some safeguard) information
- 4

Forest monitoring is not a silver bullet!

- Useful for as part of the system to provide information on the safeguards
- Other information is needed!

Thank you





MRV and National Communication Division
Office of Climate Change and Development
P O Box 4017, Boroko 111, NCD. Papua New Guinea

Ph: +675 325 7528

Fax: +675 325 7620

Email: info@occd.gov.pg

Website: www.occd.gov.pg