



An overview of Papua New Guinea's readiness efforts towards the mitigating of its greenhouse gases

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Session I NAMAs, BURs and MRV: - Part 2: Lessons learned from country-based practical experience in NAMAs, BURs and MRV institutional arrangements in the Pacific region The 22nd Asia-Pacific Seminar on Climate Change, 27-28 June, 2013, Sofitel Plaza, Hanoi, Vietnam









Presentation Outline

Objective

International Commitment

National Commitment

Policy

Activities

Lesson learned

Q&A

Objective



Share Papua New Guinea's readiness effort to reducing its greenhouse gases



Share lessons learned in the process



Background - Political



Situated north of Australia, west of Solomon and East of Indonesia



September 16, 1975 got its independence from Australia under Westminster arrangement



Divided into four regions, Southern, Highlands, Momase, and New Guinea Islands



The regions are sub-divided into 22 provinces



>800 languages and cultural backgrounds



Landownership is 97% customarily own while 3% held by government or privately held under 99 years lease back arrangement



7,059,653 people (2011 fig), 83% still live in rural areas.



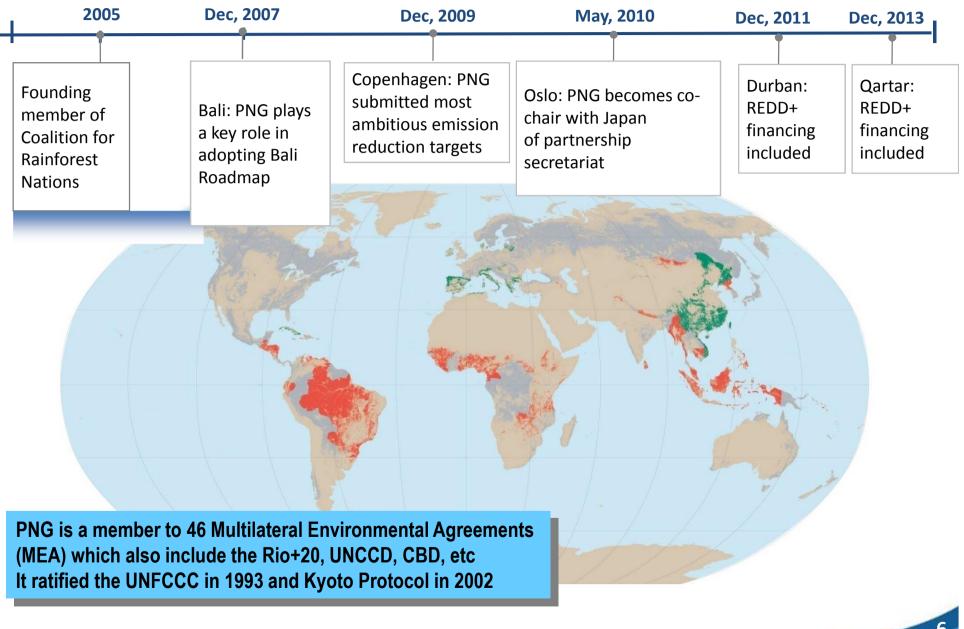
Average growth rate of 3.2%



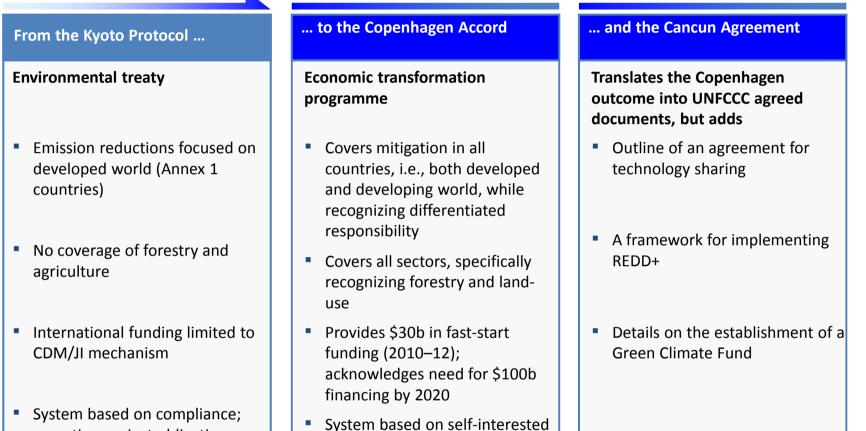


International Commitment

PNG is a global leader in pushing climate change negotiations forward



International climate change process is important

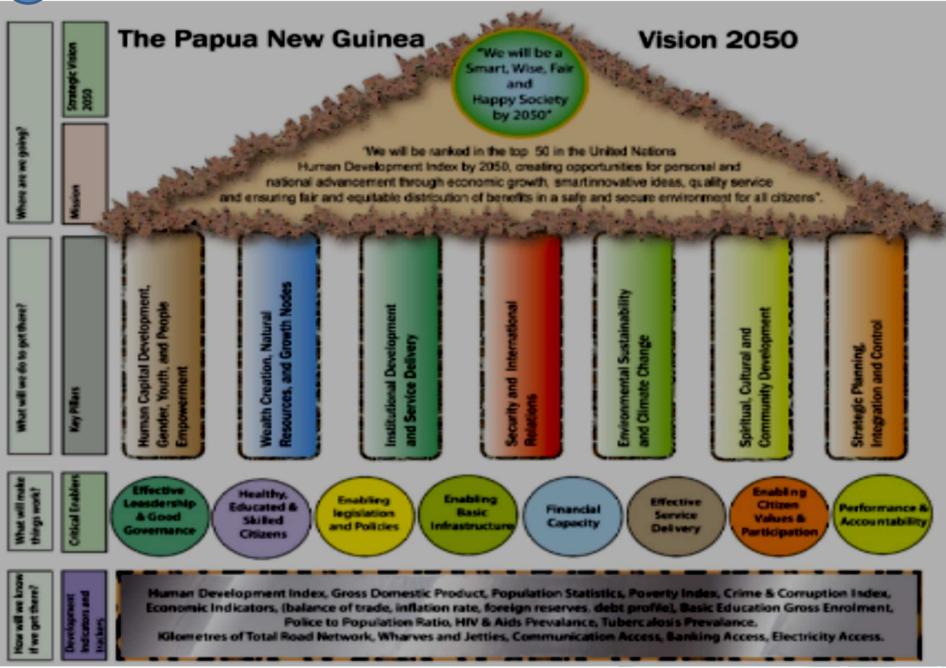


- reporting against obligations
- UNFCCC 80% of the game

- commitments within a framework for performance transparency
- UNFCCC 20% of the game

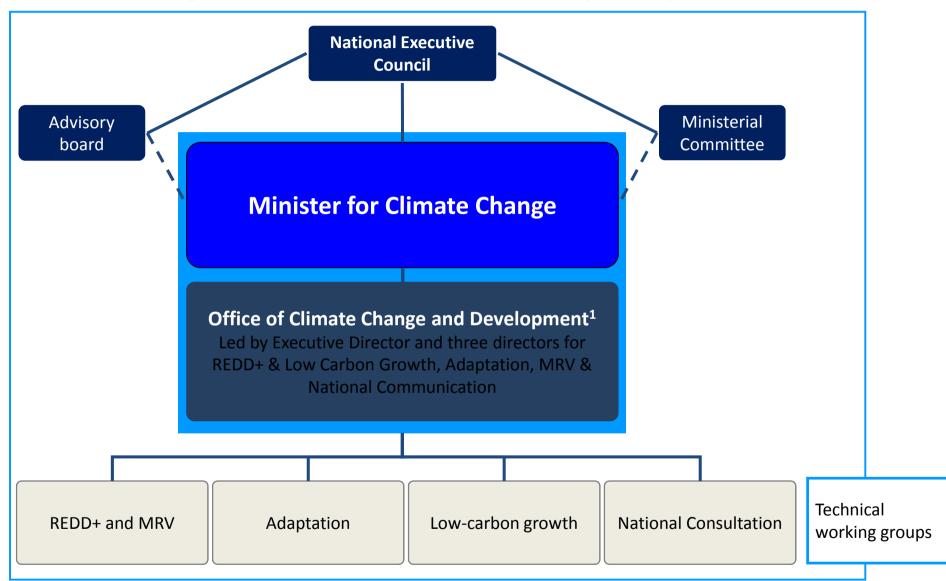


National Commitment





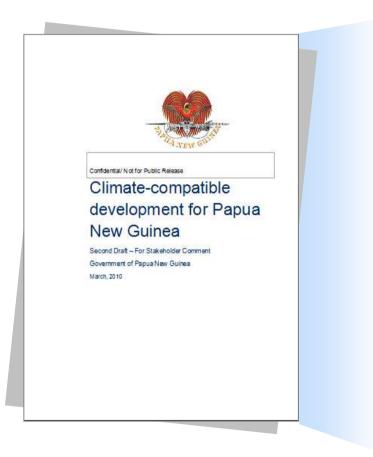
The OCCD's governance structure has been put in place



1 OCCD Executive Director reporting directly to Prime Minister SOURCE: NEC decision 54/2010, OCCD analysis



PNG's Climate-Compatible Development Strategy is an evolving document that describes economic development opportunities in alignment with Pillar 5 Vision 2050

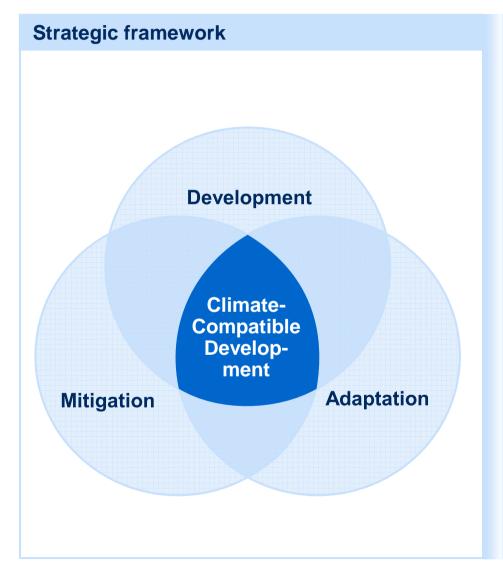


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- A reference document for PNG strategic framework of economic development, mitigation, and adaptation actions, which includes:
 - Environmentally-sustainable and lowcarbon economic growth
 - Opportunities of reducing carbon emissions
 - Adaptation to climate-driven hazards
- CCDS will be improved with inputs from further stakeholder consultation, pilots and MRV learning



PNG's Climate-Compatible Development Strategy combines economic development with mitigation and adaptation



Economic Development

 Achieve GDP per capita of USD 3,000 by 2030, as set out in our Vision 2050

Mitigation

- Potential to reduce emissions of greenhouse gases, by at least 50% by 2030 driven mainly by abatement measures in land use, land-use change and forestry
- Become carbon neutral by 2050, investing into low-carbon infrastructure today

Adaptation

- Reduce vulnerability to climate changeassociated risks
 - Gradual hazards (e.g., disease)
 - Event-driven hazards (e.g., landslides, coastal flooding)



Clear mitigation and adaptation priorities have been identified

Pilots and programs

 Mangrove planting to protect coastal village Coastal early flood warning system Coastal engineering Inland flood warning 	es
Review of agriculture leases	
 Locate palm plantation on non-forest land Afforestation/reforestation programs Secondary forest management Reduced impact logging 	
 Forest Conservation 	
 Renewable energy for Port Moresby Rural electrification via rehabilitation of existing and new micro hydro plants Energy efficiency measures Mitain capture in Palm Oil waste 	
	 Coastal early flood warning system Coastal engineering Inland flood warning Review of agriculture leases Locate palm plantation on non-forest land Afforestation/reforestation programs Secondary forest management Reduced impact logging Forest Conservation Renewable energy for Port Moresby Rural electrification via rehabilitation of existing and new micro hydro plants

GoPNG through OCCD has translated our country's constitutional priorities and long-term development goals into tangible actions





NOT EXHAUSTIVE

The journey so far has progressed significantly with different stakeholders

Nov 2009

Development of PNG's reaction concept to climate change

Government departments

- Department of Prime Minister
- Department of Environment and Conservation
- Department of Agriculture and Livestock



Development partners



March 2013

Provincial/local consultation and pilot projects to inform about, test and refine concept

Provinces/landowners



Civil society, esp. CBOs Private companies, Research and Academic Institutions

... and is responsible for ensuring a whole-of-government approach to Climate Mitigation design and implementation

OCCD

- Landowners
- PNGFA/JICA
- FRI
- DEC
- DAL
- DLPP
- Mapping Bureau
- Mineral Resources
- UPNG
- NARI
- DPE
- UNITECH
- Provincial government

- Feedback Insights Technical requirements
 - Capacities
 - → Limitations
 - Recommen-

- Program or system design requirements
- Synthesized information for decision making
- Strategy and policy recommendations
- Stronger stakeholder coordination and collaboration

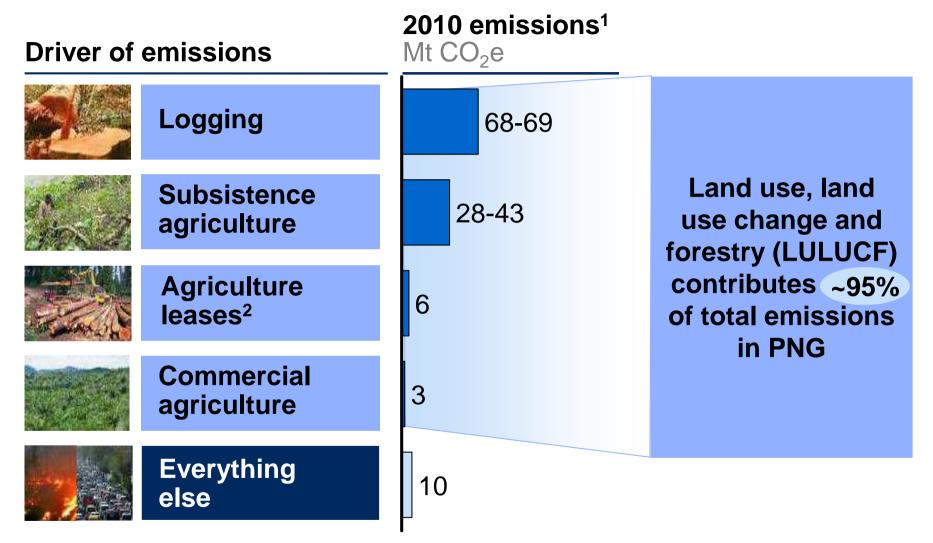


National Climate Change and Development Policy Thematic Areas

- Enabling Environment/Mainstreaming
- Data and Information/MRV
- Adaptation
- Mitigation
- Financing
- Partnership



Forestry and agriculture is the biggest driver of emissions in PNG



1 Estimate of 2010 extrapolated from 2008/09 data 2 Exact emission for 2010 still to be verified SOURCE: REDD+ technical working group



A number of priority abatement actions have been identified

Opportunities for PNG



Reduced impact logging



Agriculture leases review



Secondary forest management



Land use planning



Afforestation/ reforestation



Agriculture extension program



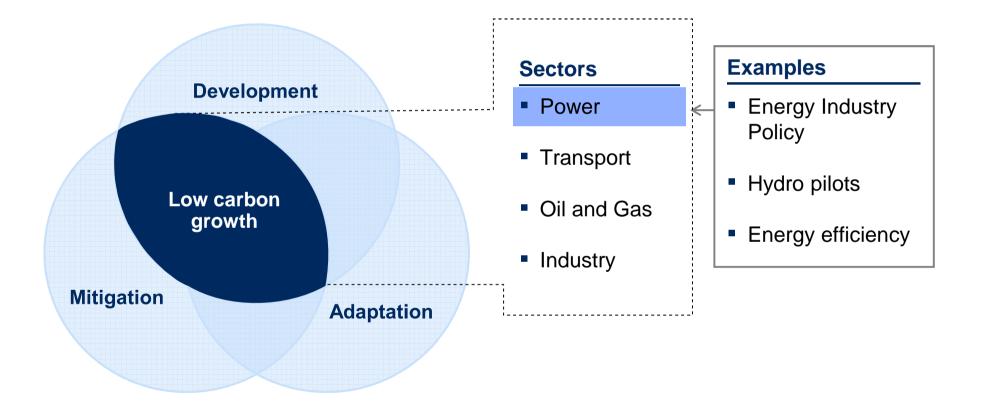
Community REDD+ schemes



Commercial plantation on nonforest land



Low carbon growth includes all non-LULUCF sectors





The production of clean electricity and development of low-carbon sectors are important components of PNG's climate compatible development

Produce "Clean"-Electricity

Solar

 Solar panels convert sunlight into electricity



 Solar panels can be installed close to location of usage (roofs)

Build Low-Carbon Sectors

Agriculture

- Invest in quality and marketing of coffee, cocoa and copra
- Increase production and quality of fresh fruit and vegetables to reduce imports



Hydroelectric power

- Benefiting from constant water flows to generate electricity
- Requires construction of pipe leading to a turbine



Tourism

- Promote eco- and niche tourism
- Develop hotels and activities for domestic tourist market



Geothermal

- Clean energy can be produced from heat at volcanic areas
- Requires technical expertise and large capital investments



Processing

- Develop industry around low-cost energy hubs (hydro, geothermal)
- Encourage processing of wood and agricultural exports







Activities (Govt)

#	Туре	Description	Activity	Location
1	PNGFA	April-Salome REDD+ Pilot Project	A forest concession are of 521,500 ha involve the holistic REDD+ project approach	East Sepik
2	PNGFA	Central Suau	A lowland forest concession with area of 60, 780 ha to capture reduce impact logging which also involve FPIC, land boundary mapping and land- use planning	Milne Bay
3	PNGFA	JICA/PNGFA Project	Capacity development Forest base-map	NCD
4	OCCD	UN-REDD Programme	National Monitoring System Stakeholder engagement	NCD
5	PNGFA	EU/FAO/PNG FA	National Forest Inventory	Nation- wide
6	NCD	Waste Management Facility	The National Capital District will be support by JICA to building facility for both solid and liquid waste. Potential methane capture there.	NCD

Activities (Non-Govt)

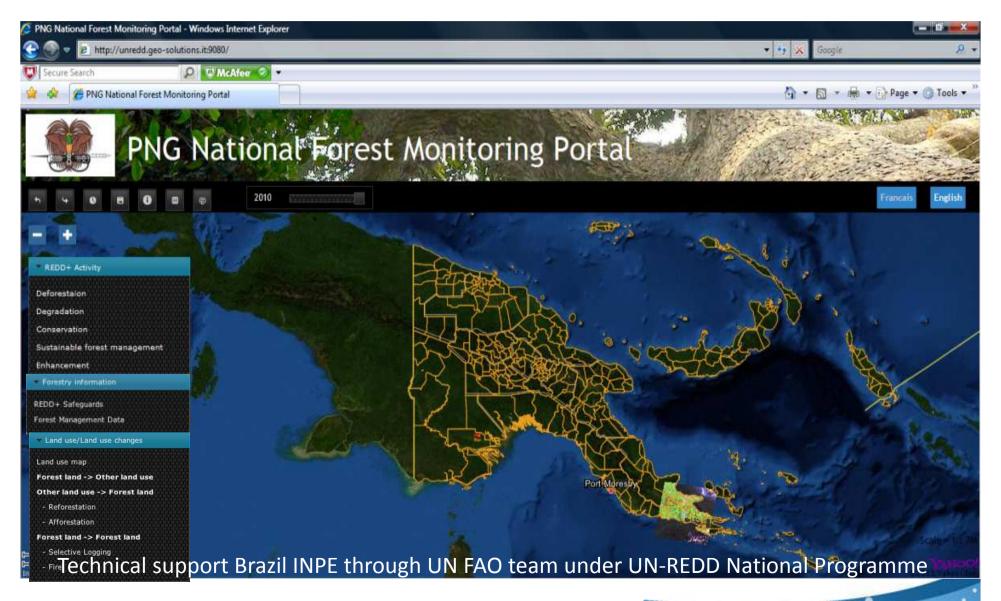
#	Туре	Description	Activity	Location
1	WCS	Village REDD+ demonstration	Grassroots capacity building on forest inventory, FPIC, carbon rights study, land boundary mapping, and land-use planning.	East Sepik
2	TNC	Central Suau	Grassroots capacity building on carbon biomass measurement and land boundary mapping and land-use planning	Milne Bay
3	TNC	Manus	Ridge to reef conservation project	Manus
4	ForCert	Village base planning	Grassroots capacity building on forest inventory and conservation as a business model	East New Britain
5	ForCert	Village base planning	Grassroots capacity building on forest inventory and conservation as a business model	West New Britain



Activities (Industries)

#	Туре	Description	Activity	Location
1	PNG Power Ltd	Divune Hydropower CDM Project	With the support PPL has manage to get their Program of Activity by the CDM Board is expected to generate estimated GHG emission reduction over a period of 7 years of 145,600 tCO ₂ ^{-e}	East Sepik
2	NBPOL	Methane Avoidance CDM Project	Sangara Methane Avoidance Project is expected to generate estimated GHG emission reduction over a period of 10 years of 666,360 tCO ₂ -e	Oro
3	NBPOL	Methane Avoidance CDM Project	Hagita Methane Avoidance Project is expected to generate estimated GHG emission reduction over a period of 10 years of 582,241 tCO ₂ -e	Milne Bay
4	Oil Search Ltd	Flare and Vent Gas Conservation CDM Project	The project will cover various location of their processing facilities (CPF, CPF Refinery, APF, and GPF). An estimate GHG emission reduction 674,030 over 7 years period	Central and Southern Highlands
5	STC	Grand Papua Hotel	Steamship Trading Company has build two hotels that are using 50% of their energy from solar and are recycling their water usage.	NCD

MRV



BUR 1: Next Steps (Inventory Schedule/Timeline)



Technical support by USAid EPA & UNFCCC ALU project through SEA GHG Inventory Project



Lessons Learned

Good Political leadership is important



4

A stand alone and designated office to deal with the issue of climate change, GoPNG created Office of Climate Change & Development



Develop a good and sustainable network of key and relevant stakeholders that can work together to develop and implement policies



Alignment of different sectoral policies with the Vision 2050 Pillar 5 and the National Climate Change Policy





Lessons Learned



A Policy that can deliver must be supported by sustainable funding and technical support both nationally and global



Activities must be supported by funding that's additional, predictable transparent and credible sources like the green climate fund.



Very good technical support by Annex I Parties is very important for developing country like PNG



Capacity building is important to delivery of sustainable tangible outcomes







Questions?

