



**The Project
for
Capacity Development on
Forest Resource Monitoring for
Addressing Climate Change**

February 2011

**Japan International Cooperation Agency
(JICA)**



Project Title

“Capacity Development on Forest Resource Monitoring for Addressing Climate Change”

Executing Agency

PNG Forest Authority

Overall Goal

Forests in PNG is conserved and managed in sustainable manner as an important mitigation and adaptation measure against climate change.

Project Purpose

To address climate change, the capacity of relevant institutions in PNG is enhanced for the monitoring of nation-wide forest resource including carbon stock.

Outputs

1 Nation-wide forest base map is improved by using remote sensing technology.

2 National level forest resource database is improved.

3 To address climate change, the monitoring system of forest resource including carbon stock is improved.



Inputs

1 Experts

(a) Long Term Experts

- Chief Advisor / Forest management
- Project Coordinator

(b) Short Term Experts

- Remote sensing expert
- Forest GIS/Database expert
- Biomass Survey Expert

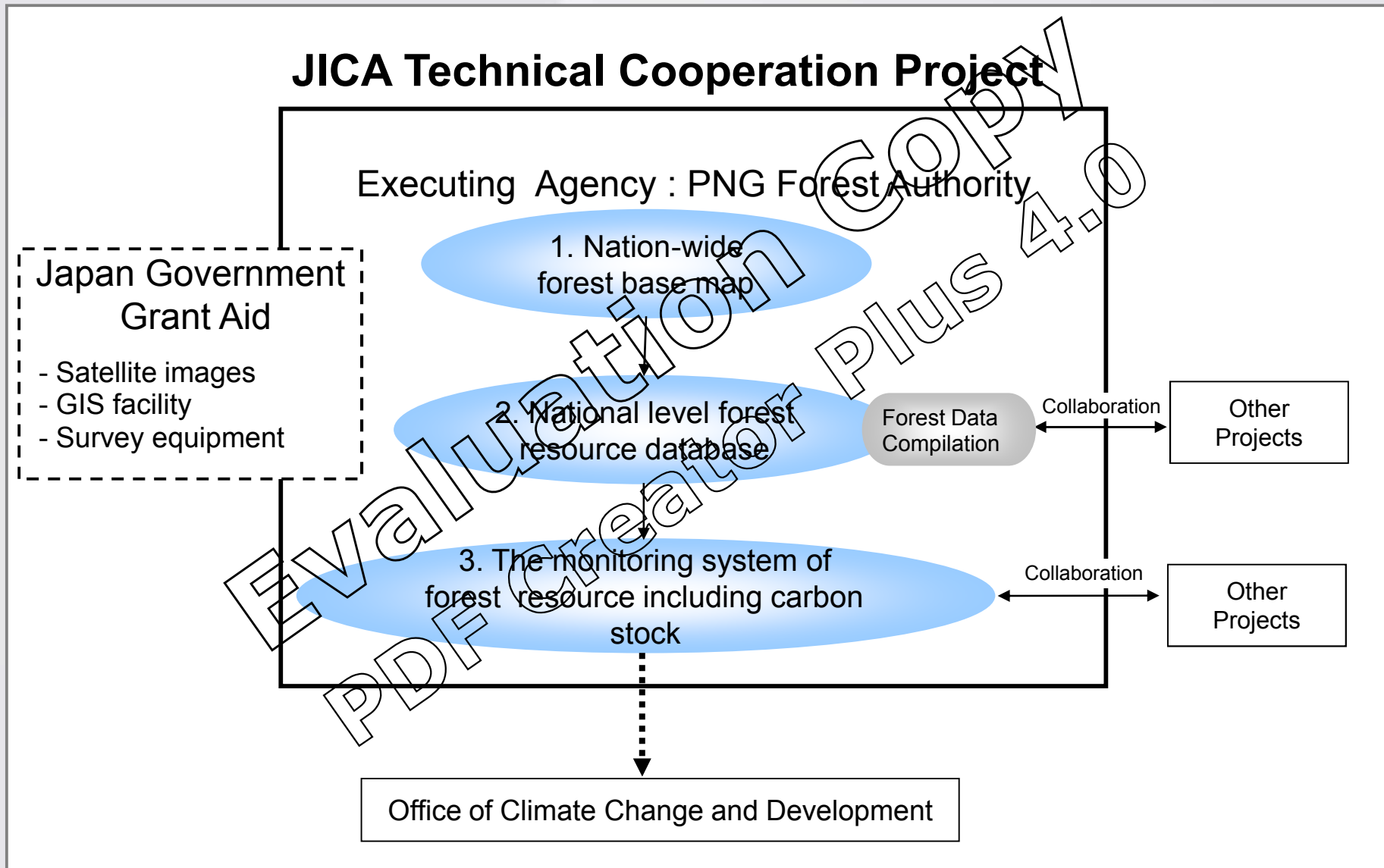
2 Training in Japan / PNG

Duration

3 years (from March 2011 to February 2014)



Overall Structure (Illustrative)





Activities related to Output-1

Output-1

Nation-wide forest base map is improved by using remote sensing technology.

Activities

- 1.1 Capture and analyze current condition of remote sensing utilization in forest sector.
- 1.2 Prepare a basic design of remote sensing analysis based on the result of 1.1.
- 1.3 Conduct preliminary analysis of remote sensing data.
- 1.4 Conduct on-site checking of the result of the preliminary analysis.
- 1.5 Conduct secondary analysis of remote sensing data using the result of on-site checking.
- 1.6 Develop nation-wide forest base map.
- 1.7 Train related institutions/personnel for above activities.



Activities related to Output-2

Output-2

National level forest resource database is improved.

Activities

- 2.1 Capture and analyze currently available data on nation-wide forest resources.
- 2.2 Prepare a basic design of national level forest resource database based on the result of 1.2 and 2.1.
- 2.3 Develop the nation-wide forest resource database linked with the forest base map and ground survey data.
- 2.4 Train related institutions/personnel for above 2.2 to 2.3 activities.



Activities related to Output-3

Output-3

To address climate change, the monitoring system of forest resource including carbon stock is improved.

Activities

- 3.1 Participate in national multisectoral working groups for addressing climate change including REDD+ working group to promote communication and collaboration with relevant public and private organizations.
- 3.2 Liaise with the Office of Climate Change and Development (OCCD) to ensure the project activities are implemented in line with national policies and strategies.
- 3.3 Estimate the past change of forest carbon stock by analyzing the developed national forest resource database.
- 3.4 Develop preliminary Reference Emission Levels for REDD+, based on the estimated past change in forest carbon stock.