

添付資料 4.2.4 Project brochure (project annual report) ver. 1 – 6, Output 3 version

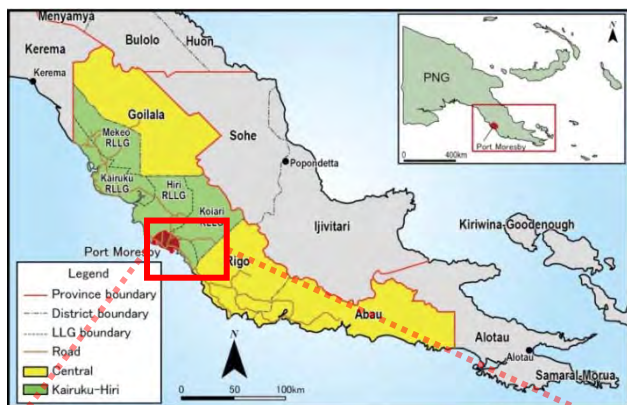
Background

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To address biodiversity conservation and support the development and management of a National Protected Area Network in PNG, the government of PNG launched the PNG Policy on the Protected Areas (PPA) in 2014. PPA guides communities, organizations and agencies to harmonize their efforts in a structured and logical approach to the development and management of Protected Areas (PA). The Project aims to support the implementation of PPA.

Project Target Areas

Project target areas include Central Province and several target PAs. The target PA for Output 2 is Varirata NP as terrestrial PA management model, and Koiari Rural LLG is the target LLG for livelihood development activities. Besides, Output 3 considers Motupore Island to be one of the candidates for marine/coastal PA establishment.



Technical Cooperation CEPA - JICA Biodiversity Project 2015-2020

The Project for Biodiversity Conservation through Implementation of the PNG Policy on Protected Areas



Conservation and Environment Protection
Authority (CEPA)

Japan International Cooperation Agency
(JICA)

Address: P.O.Box 6601, Boroko, National
Capital District, Papua New Guinea

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JICA Project Homepage:

[http://www.jica.go.jp/png/english/activities/
activity18.html](http://www.jica.go.jp/png/english/activities/activity18.html)

Basic Information of the Project

Project Period: Five (5) years commencing from June 2015

Implementing Agency: Conservation and Environment Protection
Authority (CEPA)
Japan International Cooperation Agency
(JICA)

Targets: Provincial administration(s), district
administration(s) and LLG government(s)
surrounding the target Protected Areas

Target Protected Areas: Terrestrial – Varirata National Park
Marine/Coastal – to be defined

Outline of the Project

Project Purpose

Institutional capacity of CEPA for protected area (PA) management is strengthened through enhancing national-level PA governance and sustainable use of natural resources with local communities in the model Protected Areas as per the provision of the Policy on Protected Areas.

Overall Goal

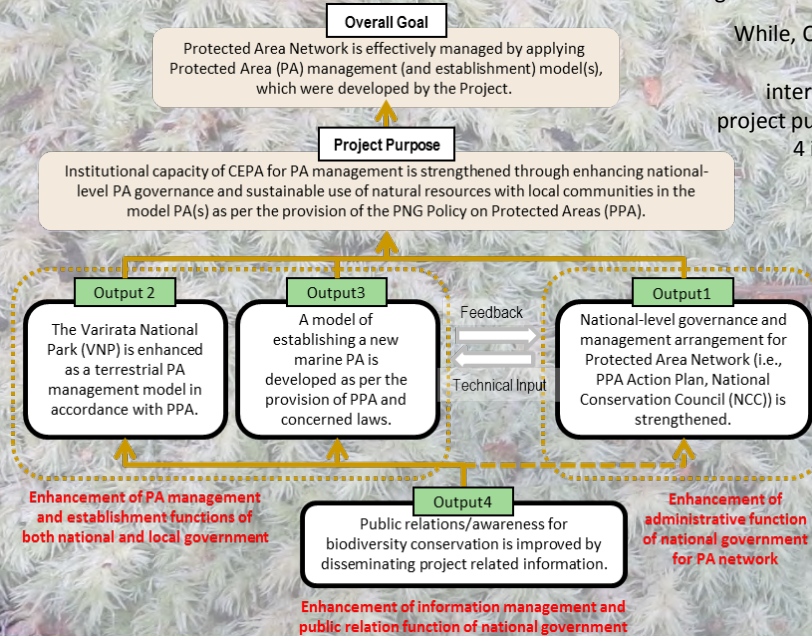
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Outputs

- National-level governance and management arrangement for Protected Area Network (i.e., PPA Action Plan, National Conservation Council (NCC)) is strengthened.**
- The Varirata National Park (VNP) is enhanced as a terrestrial PA management model in accordance with PPA.**
- A model of establishing a new marine PA is developed as per the provision of PPA and concerned laws.**
- Public relations/awareness for biodiversity conservation is improved by disseminating project related information.**

Project Design

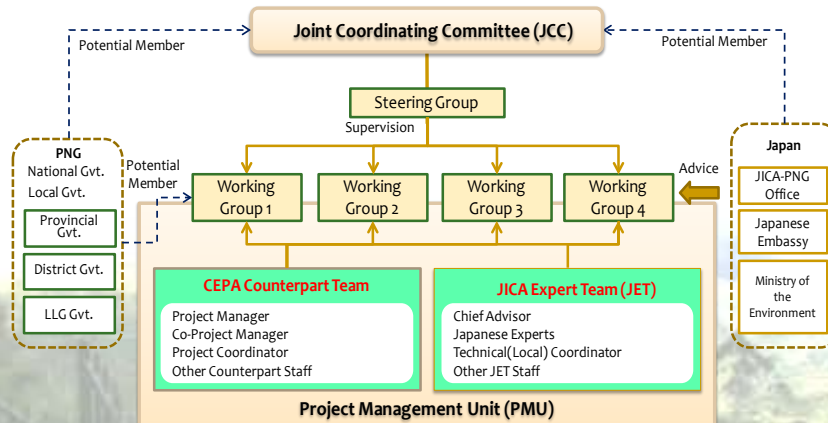
The project design can be interpreted to have three distinctive tasks; 1) enhancement of administrative function of national government for PA network (Output 1), 2) enhancement of PA management and establishment functions of both national and local governments (Output 2 & 3) and 3) enhancement of information dissemination and public relation function of national government (Output 4).



While, Output 1, 2 & 3 are in parallel interrelation to the project purpose, Output 4 is a supporting component for other Outputs.

Project Implementation Body

CEPA Counterpart Team and JICA Expert Team (JET) form the Project Management Unit (PMU) to be a project implementation body. Besides, Working Groups (WGs) are formed in specific task or/and output wise. The members of WGs are nominated from not only CEPA and JICA, but concerned institutions of national, provincial and local levels, universities, research institutions, NGOs and so on.



Project Coordination Body

The Joint Coordinating Committee (JCC) facilitates inter-organizational coordination of the Project. JCC meeting is agreed to be held at least once annually and whenever deems necessary. JCC will approve the Work Plan, review overall project progress, undertake monitoring and evaluation of the Project and exchange opinions on major issues that arise during the implementation of the Project.

Members of JCC		
1	Chairperson	Managing Director of CEPA (Project Director)
2	Co-chairperson	Chief Representative, JICA PNG Office
3		Director for Sustainable Environment Program, CEPA (Project Manager)
4		Director for Policy Coordination and Evaluation, CEPA (Co-Project Manager)
5		Representative from Department of National Planning and Monitoring
6		Representative from Central Province Administration
7		Representative from Kairuku-Hiri District Administration
8		Representative from Koiari Local-level Government
9		Representative of JICA PNG Office
10		JICA Expert(s) of the Project
11		Other officials mutually agreed upon

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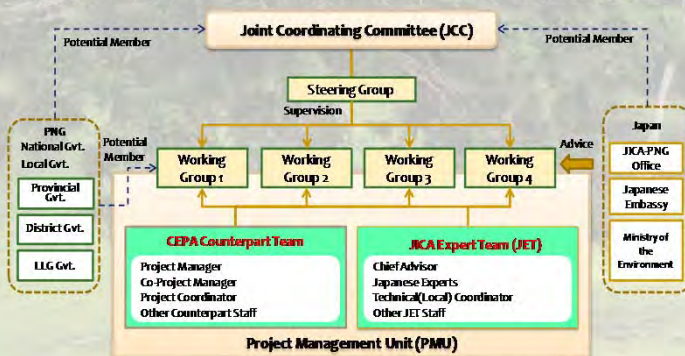
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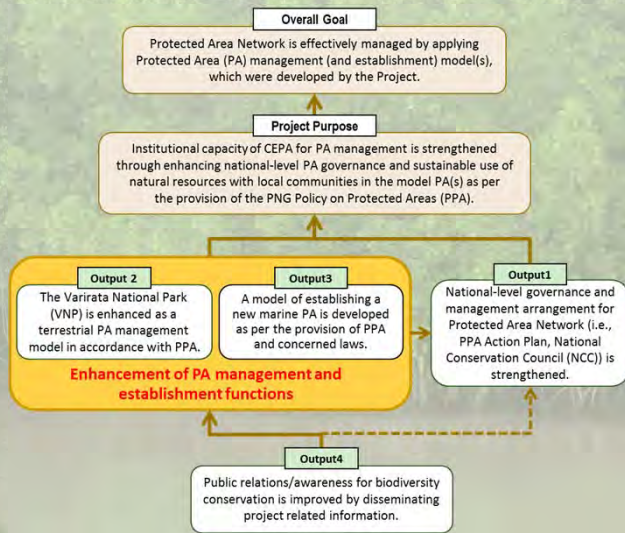
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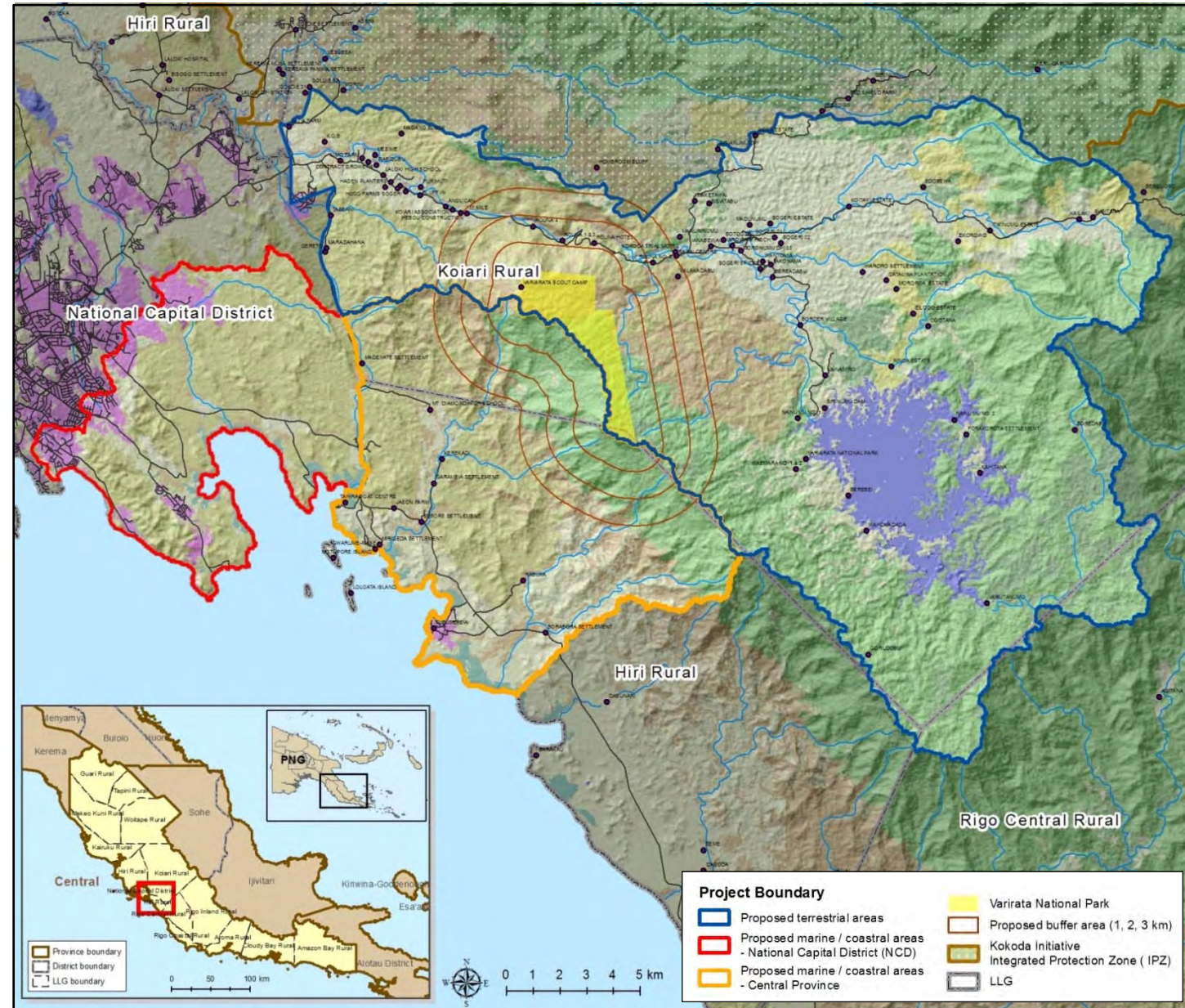
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The project design can be interpreted to have three distinctive tasks; 1) enhancement of administrative function of national government for PA network (Output 1), 2) enhancement of PA management and establishment functions of both national and local governments (Output 2 & 3) and 3) enhancement of information dissemination and public relation function of national government (Output 4). While Output 2 & 3 are core components to the project purpose, Output 1 & 4 are supporting components of the Output 2 & 3.



Project Target Areas

Proposed project target area covers approximately 612 km², which can be divided into two major types; terrestrial areas (396 km²) and marine/coastal areas (216 km²), as indicated below. The target PA for the Output 2 is the Varirata NP to develop a terrestrial PA management model, and Koiari Rural LLG is the target LLG for livelihood related activities. Besides, the Output 3 targets Bootless Bay and its coast for the establishment of a new marine/coastal PA model.



Project Key Achievement

Output 2

- Facility assessment of VNP with a detailed technical report covering over 200 existing facilities
- Facility renovation & maintenance of VNP
 - Installation of a total of 79 distance piles along 4 tracks
 - Installation of signboards with VNP map and background information
 - Installation of additional signboards
 - Construction of new Information Center
- Monitoring & Management
 - Installation of 20 camera traps
 - continued camera trapping (fauna and visitors)
- Conducting surveys
 - Biodiversity (fauna & flora)
 - Socio-economic (household & social mapping)
 - Soil & topographic
- Establishment of MoU for Bird Watching Project in partnership with PNG Tourism Promotion Authority, Pacific Adventist University (PAU) & Koiari LLG
- Sustainable livelihood development in VNP & Koiari LLG with community workshops
 - Development of at least 2 tour packages
 - Consultation of at least 2 tour operators
- Development Planning
 - Review of Koiari LLG 5 Year Development Plan and Central Province 5 Year Development Plan



Output 1

- Support for establishing National Conservation Council (NCC) and NCC operation
- Protected Area Bill review notes to incorporate into the new Bill



Output 3

- Development of "Road Map for new Marine Protected Area (MPA) Establishment at Bootless Bay & Motupore"
- Stakeholder consultation for proposed MPA establishment and protection of Bootless Bay & surrounding marine ecosystems
- Establishment of MoU for the Bootless Bay protection and mangrove protection project with University of PNG (UPNG), Central Province Conference (CPC) and CEPA
- Purchase of a boat (23 ft) and engine (40hp) for implementing marine work
- Conducting Rapid Marine Biodiversity Survey
- Establishment of a network "Bootless Bay Marine Conservation Initiative"
- Conducting Coastal cleanup event



Output 4

- Purchase of WorldView-2 imagery (Terrestrial areas: 494km², Marine / coastal areas: 223km²)
- Development of GIS database and preparation of GIS data and maps for each output: a detailed land cover map of proposed terrestrial areas, mangroves map of Bootless Bay, dogura Inlet and Tuna Bay, etc.
- Development of Public relations strategy for the Project
- Public Relation by creating a variety of project PR tools: Project webpage, facebook page, brochures, newsletters, factsheets, banner, sign boards, posters, polo shirt, logo for VNP, etc.

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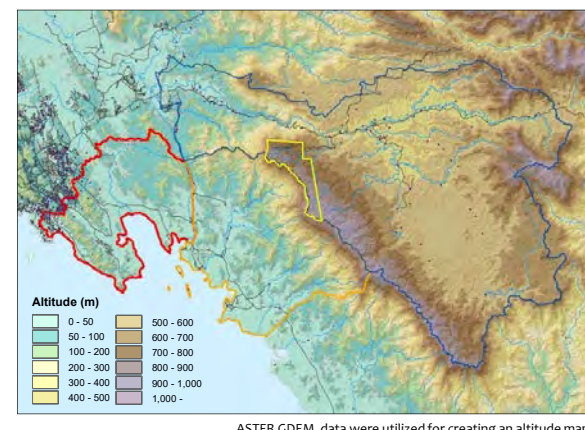
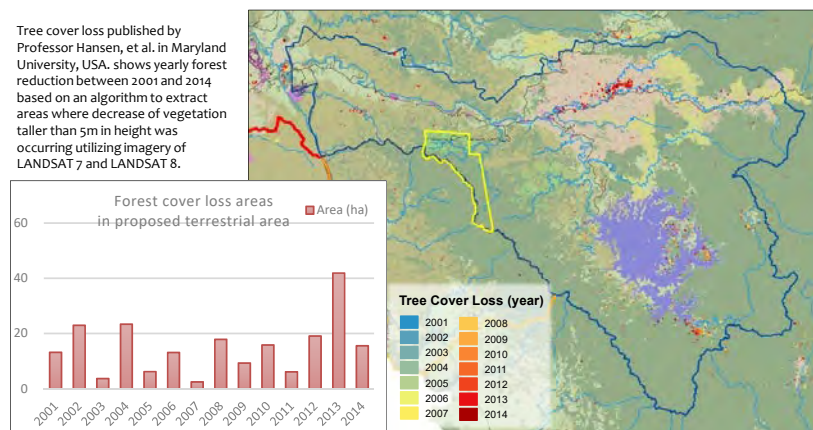
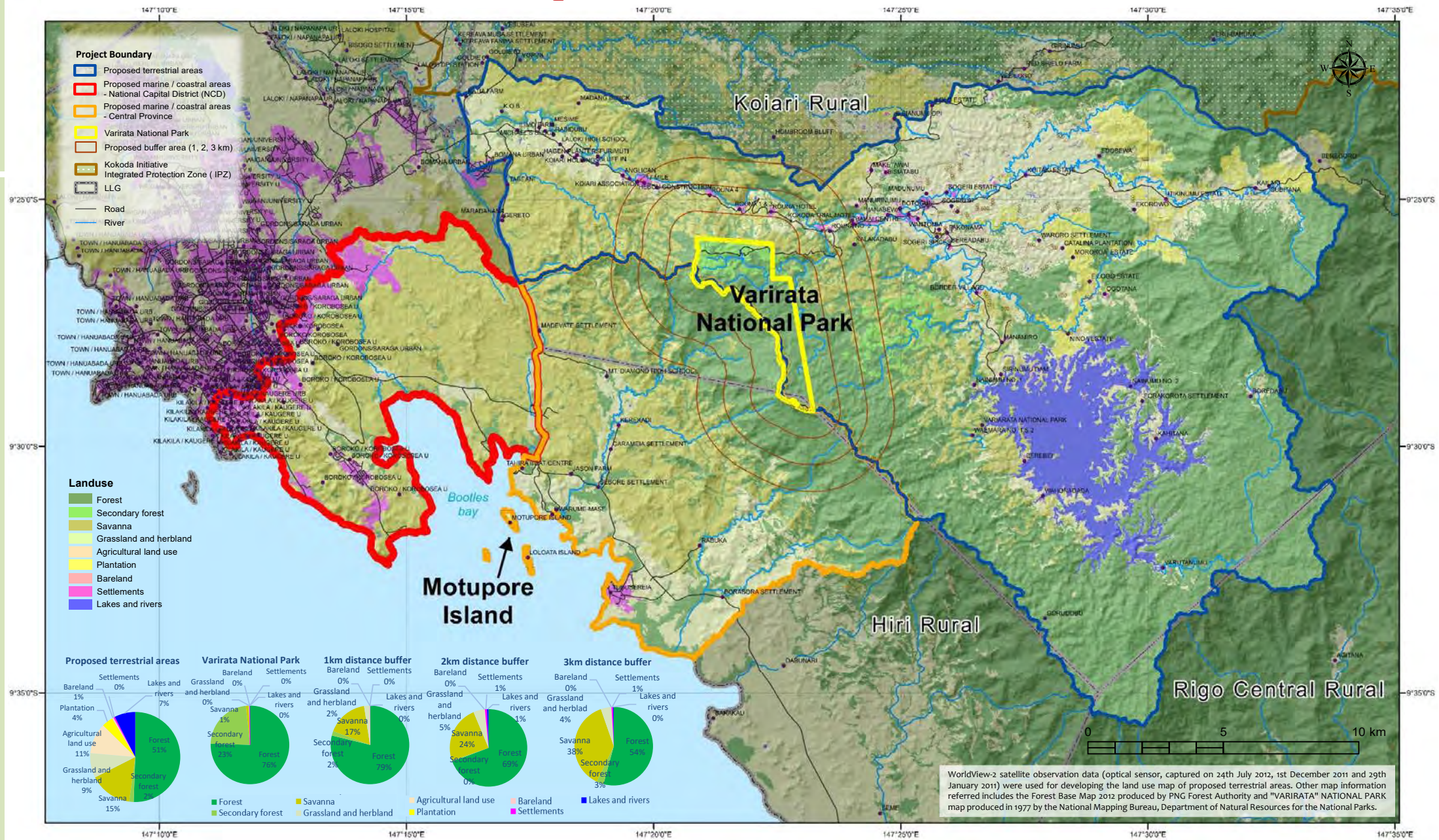
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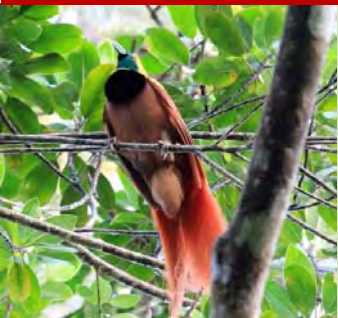
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Technical Cooperation CEPA - JICA Biodiversity Project 2015-2020

Annual Report 2017

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Implementation of the PNG Policy on Protected Areas



**CEPA - JICA
Biodiversity Project**



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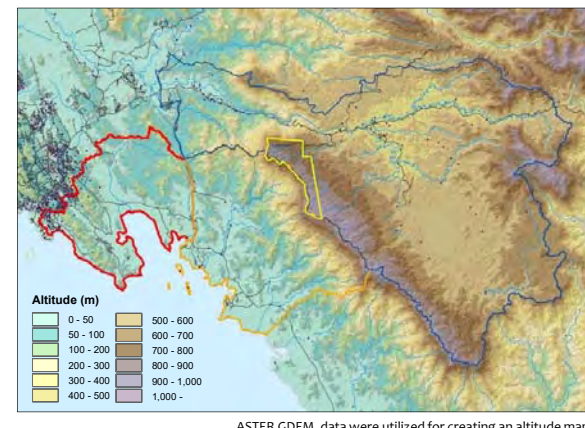
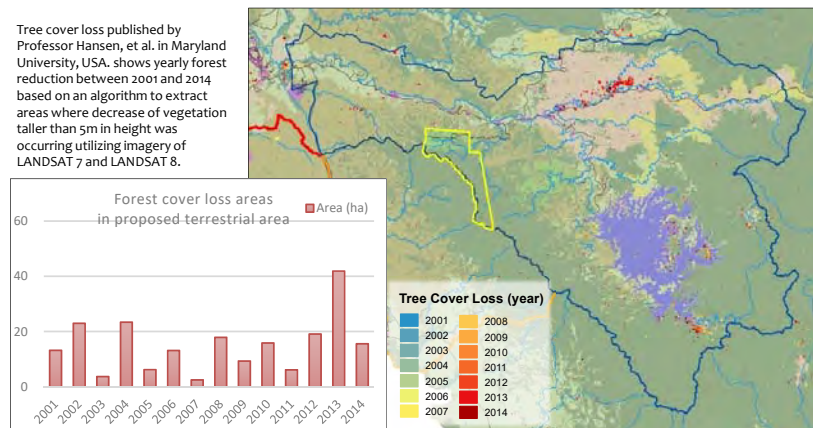
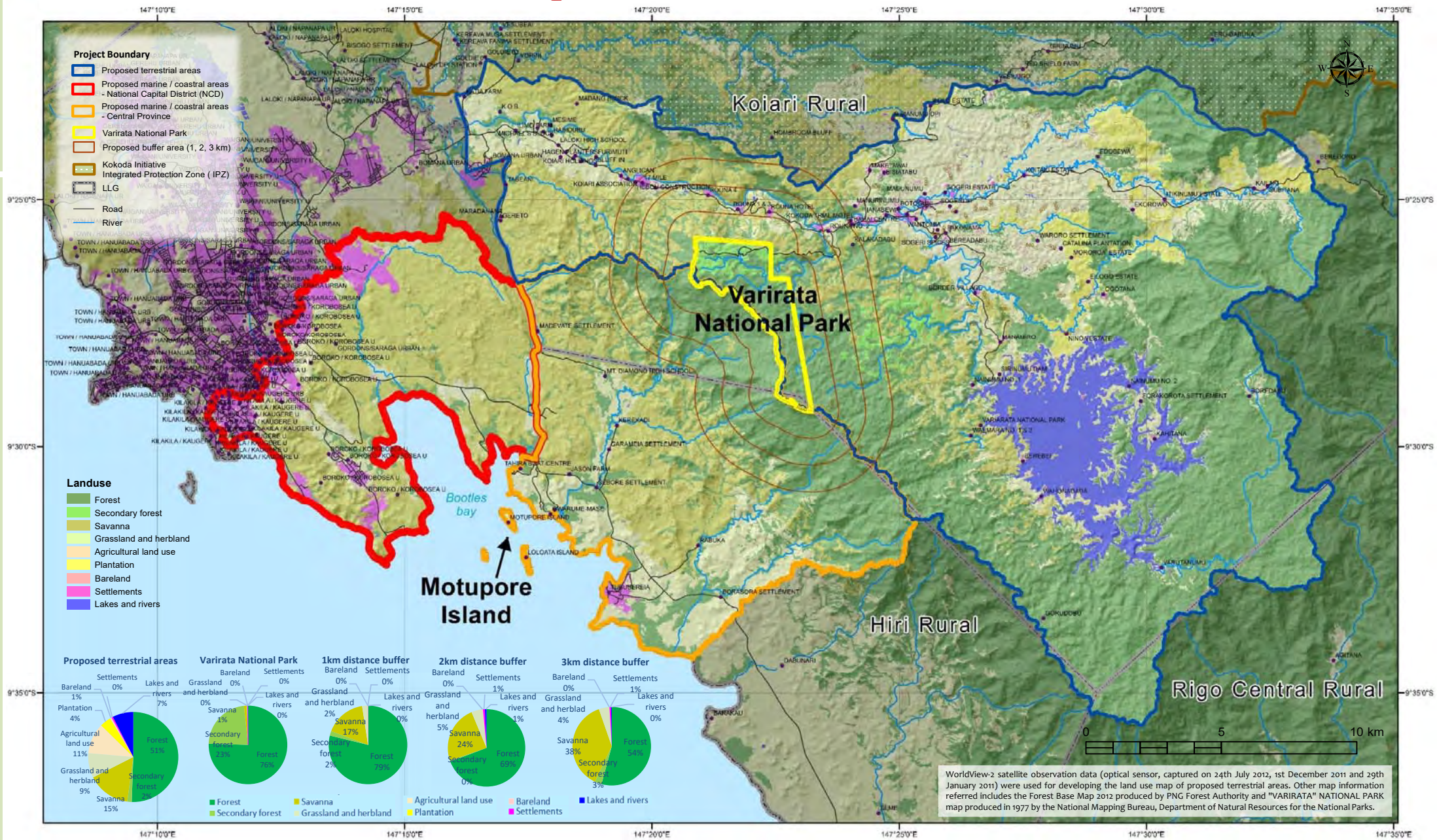
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Output 1 Strengthen National Level Protected Area Governance !!!

Strengthened national-level governance and management arrangement for Protected Area Network



The Project support for establishing the **National Conservation Council (NCC)** and operating the NCC.

Achievements by December 2017

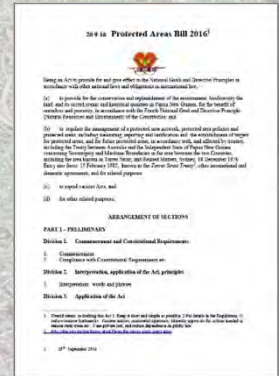
The Project reviewed existing legal framework, identified approach, and supported the process for establishing NCC.

- ✓ **Protected Area Bill review notes** to incorporate into the new Bill.

Targets for 2018-2020

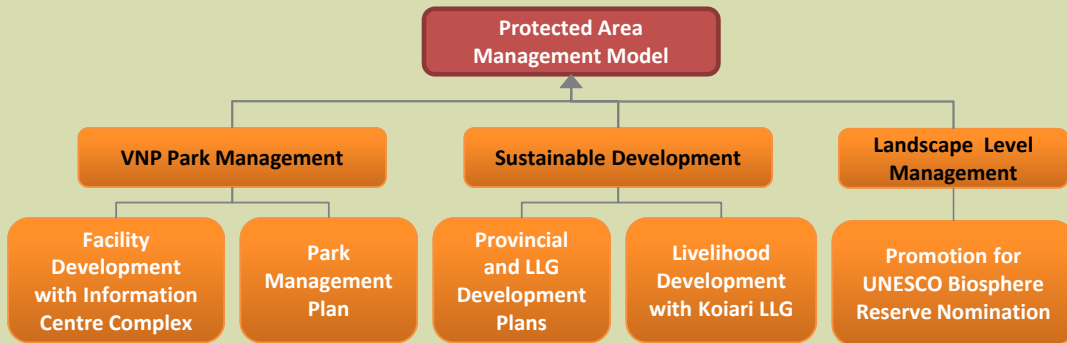
After the Protected Area Bill will become a Law,

- Nominate and appoint council members.
- Provide support for operating the NCC.
- Promote concept of MAB program as a mean of landscape-level management.



Output 2 Varirata National Park as the State's Management Model !!!

The Varirata National Park (VNP) has been enhanced as a **Terrestrial Protected Area Management Model**.



For contributing to public reputation/appreciation of VNP, we work for

- **Various park facilities** to be restored and developed.
- **Park management plans** to be developed and to be used.
- **Biodiversity conservation of VNP landscape** to be integrated into **the local governments' development plans**.
- **Livelihood development options** to be developed with Koiari communities.



Achievements by December 2017

Revitalization of Park Facilities and Development of Information Center (IC) Complex

- **The assessment of the facilities at the VNP** has been completed with a detailed technical report covering a total of **284 facilities**.
- Various **facility renovation, maintenance and development** works completed, and new wooden bridges, new distance piles along four tracks, signages, signboards, and other facilities have become functional.



- **IC Complex Master Plan** was developed, and development work has started based on the Plan. So far
 - ✓ **3 Car parking areas (Total 100m²)** were renovated.
 - ✓ **12 bar-type & 8 PVC car stop piles** (length 60m in total) were renewed or installed newly.
 - ✓ **40m masonry drainage** was installed on the existing open drainage.
 - ✓ **One wooden bridge (L=3m)** was renovated connecting IC complex and the main picnic area.
- **Old IC renovation** has been renovated to be **new auditorium**.
- **New Information Center Construction** was started under the supervision by JICA Expert Team.



Development of the Management Plan for the VNP

- The management plan will compose of the **conservation plan**, the **utilization plan**, and the **logistic support plan**.
- **Revival Plan** has been prepared using the results of various assessment results. **Financial management improvement plan** and **Plan for security improvement** in VNP were drafted.
- **Works to improve VNP management** was conducted as per the plan.
 - **Camera trap** has continued since Sep 2015, and the first **wrap up report of mammal and bird** was prepared.
 - **Trial community (four clans) patrol** was implemented.
 - Preliminary draft **park committee by-law** was prepared.
- **Biodiversity survey** has been conducted, and **interim monitoring report** was submitted.
- **Social mapping & socio-economic studies** of VNP have been carried out and **final draft report** was submitted.



Assistance of Development Planning of Local Governments

- Existing developing plans were assessed, and **Koiari Five Years Development Plan** was revised.
- **Key recommendations for enhancing biodiversity conservation** with revised **Central Provincial Development Plan** was submitted to Central Provincial Government.

Livelihood Development

- A **bird watching project including with livelihood development for local community** in partnership with PNGTPA, PAU and the Koiari LLG is ongoing from February, 2016.
- Various **Koiari community workshops** were done to discuss on **needs and expectations** for livelihood development.
- **12 potential tourism resources** were identified from the **tourism resource assessment**.
- **Two packaged tour** were proposed to Koiari LLG and local communities.
- **Draft livelihood development plan** was made.
- **Two social groups (Traditional Dance group and Traditional Cooking group)** were formed from the various meetings with target clan leaders of Koiari.
- **Trainings** were conducted for social group members, and they gave their traditional performances at **two events**, World Environment Day (June 2017) and Inaugural event of VNP facility (April 2017), to the public, and gained income.



Targets for 2018-2020

Development of IC Complex will be completed by September 2018.

- Auditorium (old IC)
- Wood deck connected to New IC and the auditorium
- New Information Center and Park Headquarters Building

Livelihood development activities will be carried out.

- Performance of social groups to be improved by means of conducting hands-on trainings and a study/exposure tour.
- VNP Incorporated land group (ILG) to be formed to be a partner for the park management and their own income generation.
- Sub-groups to be formed for park management by means of providing necessary training and trial employment.

MAB nomination form will be developed on the results of other Outputs.



Output 3 New Marine Protected Area to be created !!!

A model of establishing a new Marine Protected Area (MPA) as per the provision of PPA and concerned laws



For a model of MPA establishment, we work for

- **Deed for MPA** to be declared.
- **Regional Protected Area Round Table** to be established.
- **MPA Management Plan** to be prepared.



Achievements by December 2017

MPA establishment

- A **roadmap** for the establishment of a new MPA in PNG was prepared.
- **Rapid marine biodiverse survey** was carried out.
- **Five target site have been selected** for MPA establishment.
- One **memorandum of understanding with University of Papua New Guinea** was signed.

Officialization of MPA

- **Bootless Bay Marine Conservation Initiative (BBMCI)** was established as regional protected area round table.
- **Nineteen stakeholders** have been participated in BBMCI.
- **The road map was approved** by BBMCI.
- **Two workshops and four meetings** have been carried out under BBMCI.
- **Coastal clean-up event** was carried out under **BBMCI**.





MPA management

- **Zoning plan** was drafted for two target sites.
- **Various facilities to monitor MPA** has been procured.
- **Various signboard** has been installed.
- So far five potential MPA areas were identified, and possible establishment scenarios have been identified for each option.
- Under BBMCI, **working groups for MPA establishment** was set up, and a **coastal clean-up event** was held.



Targets for 2018-2020

MPA establishment will be carried out.

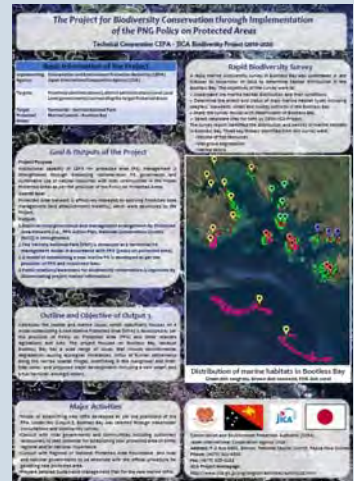
- MoUs with land owners
- Deed for MPA
- Marine biodiversity survey

Officialization of MPA will be supported.

- MPA proposal preparation
- Support for approval of MPA by provincial government or local level government
- Series of meetings and workshops under BBMCI

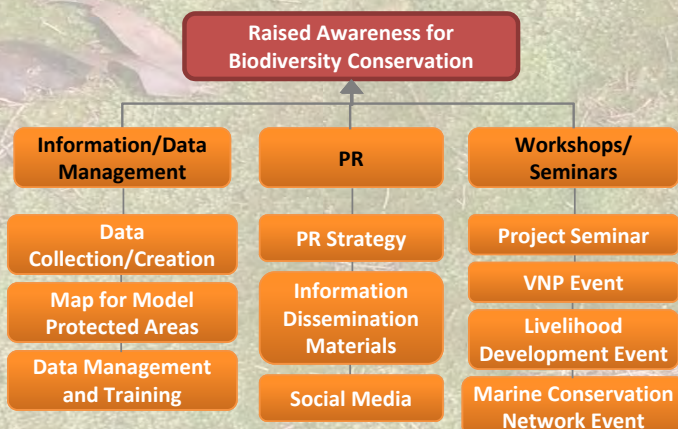
MPA management will be carried out.

- Boardwalk and observation tower
- MPA management plan including zoning
- Environmental education and awareness activities
- Monitoring MPA based on management plan



Output 4 Raising Awareness for Biodiversity Conservation and Data Management !!!

Public Relations (PR)/awareness for biodiversity conservation by disseminating project related information



For raising awareness for biodiversity conservation and the Project activities, we work for

- **Data and information for model Protected Areas (PA)** to be collected and managed .
- **Strategy for PR/awareness** to be developed, and **information dissemination materials** to be elaborated and disseminated through appropriate media as per the PR strategy.
- **Workshops/seminars** to be conducted for better PR/awareness.

Achievements by December 2017

Information/Data Management for Model PA

- **WorldView-2 imagery** (Terrestrial areas: 494km², Marine / coastal areas: 223km²) was purchased.
- **GIS database** has been developed, and also **data and maps for each output** have been prepared.
 - ✓ **facility maps** of VNP,
 - ✓ detailed **land cover/use map** of proposed terrestrial areas,
 - ✓ **mangroves map** of Bootless Bay, Dogura Inlet and Tuna Bay including Joyce Bay in the NCD and Central Province,
 - ✓ **reef map** of targeted MPA, etc.



PR of the Project Activities for biodiversity Conservation

- **A Public Relations strategy** for the Project has been developed.
- A variety of **project PR tools** have been created as per the Public Relations strategy.
 - ✓ Project webpage, facebook page,
 - ✓ brochures (volume 1-4 and Marine ver.),
 - ✓ news letters (volume 1-5),
 - ✓ factsheet (volume 1-2),
 - ✓ sign boards, banners, posters,
 - ✓ Guide map of VNP,
 - ✓ polo shirts, T-shirts, stickers,
 - ✓ logos for VNP and BBMCI, etc.
- Project activities were disseminated through **media**.
 - ✓ more than 10 news articles appearances in newspaper,
 - ✓ promotion of the Project in the World Wildlife Day event,
 - ✓ running of a booth and made a presentation at the World Oceans Conference in UN HQ, in New York,
 - ✓ major sponsorship of the World Environment Day event at VNP, etc.

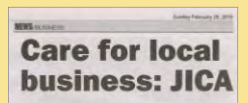


Workshops/Seminars for Better PR/Awareness

- **Seminars/workshops** has been held more than 10 times.

Targets for 2018-2020

- Public relations/awareness strategy and Action Plan for the Project will be reviewed and revised.
- A variety of project PR tools will be created continuously, including Bird Watching Guide book, Guide book for mangrove, sign boards for promotion of BW and mangrove protection.
- Data and maps for each output will be prepared such as VNP facility map (updated version), Management Zone map, Bird Watching map, and other maps related to biodiversity conservation and mangrove protection.
- Seminar / workshop will be held.



**Conservation and Environment Protection Authority (CEPA)
Japan International Cooperation Agency (JICA)**

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Project Homepage: <http://www.jica.go.jp/png/english/activities/activity18.html>

<https://www.facebook.com/pngbiodiv/>

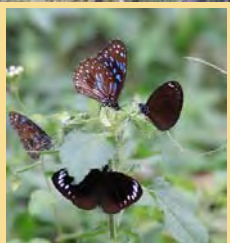
<http://pngcepa.com/projects/>



Technical Cooperation CEPA - JICA Biodiversity Project 2015-2020

Annual Report 2018

The Project for Biodiversity Conservation through
Implementation of the PNG Policy on Protected Areas



**CEPA - JICA
Biodiversity Project**



Project Period: Five (5) years commencing from June 2015
Targets: Provincial administration(s), district administration(s) and LLG government(s) surrounding the target Protected Areas
Implementing Agency: Conservation and Environment Protection Authority (CEPA), Japan International Cooperation Agency (JICA)
Target Protected Areas: Terrestrial – Varirata National Park, Marine/Coastal – to be defined

Background

PNG is one of the richest biodiversity countries in the world, while among the total population of 7.3 million in PNG, over 80% of them are in rural areas and still directly dependent on the natural environment with the rich biodiversity for their subsistence and livelihoods.

To address biodiversity conservation, the government of Papua New Guinea and Japan jointly launched a technical cooperation called the Project for Biodiversity Conservation through Implementation of the PNG Policy on Protected Areas. The project commenced in June 2015 and will run for a five (5) year period. The implementing agencies are Conservation and Environment Protection Authority (CEPA) and Japan International Cooperation Agency (JICA).

Project Framework

Project Purpose

Institutional capacity of CEPA for protected area (PA) management is strengthened through enhancing national-level PA governance and sustainable use of natural resources with local communities in the model PA(s) as per the provision of the Policy on Protected Areas (PPA).

Overall Goal

Protected Area Network is effectively managed by applying PA management (and establishment) model(s), which were developed by the Project.

Outputs

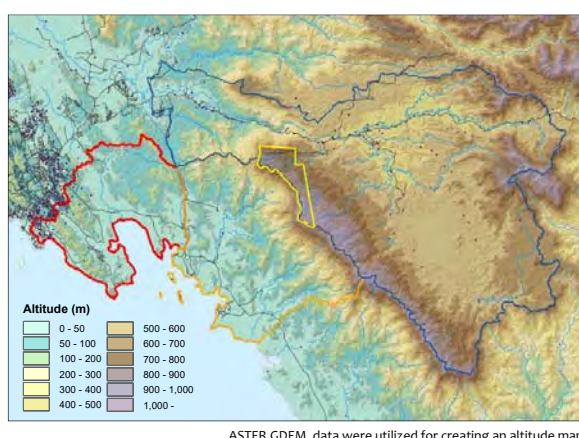
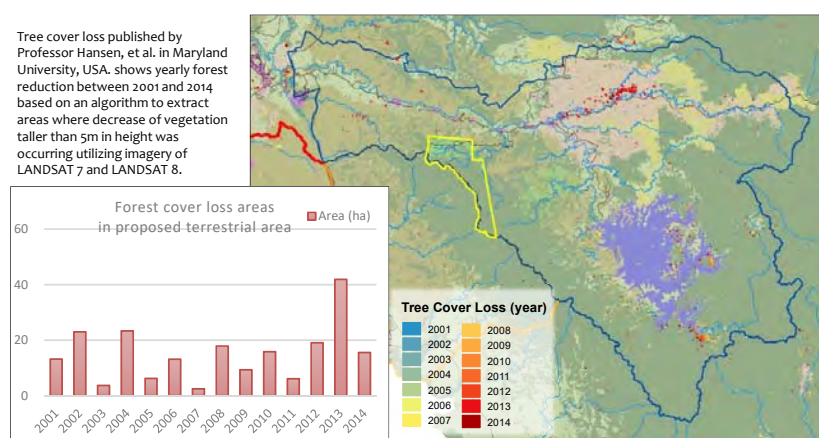
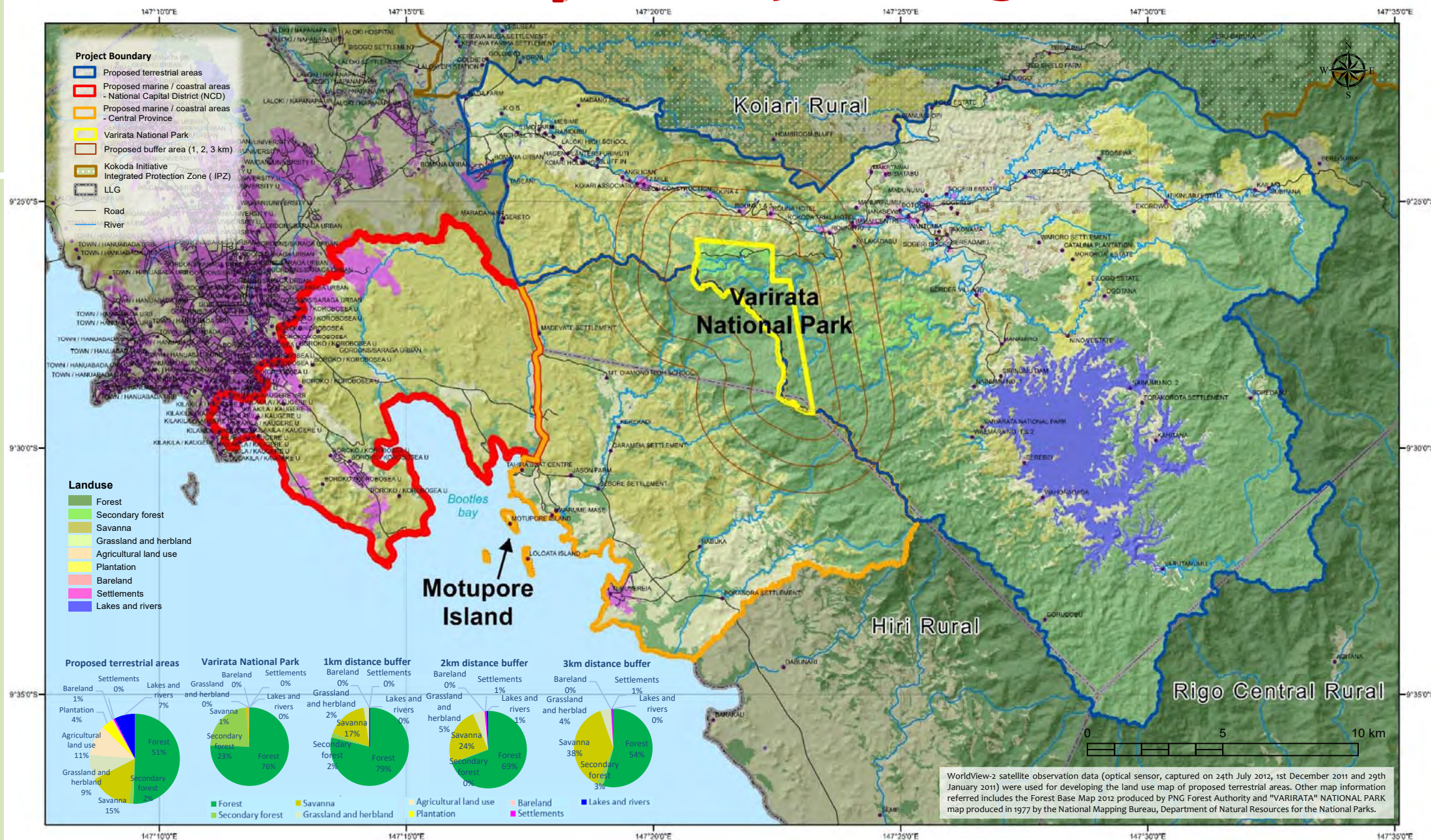
1. National-level governance and management arrangement for Protected Area Network (i.e., PPA Action Plan, National Conservation Council (NCC)) is strengthened.
2. The Varirata National Park (VNP) is enhanced as a terrestrial PA management model in accordance with PPA.
3. A model of establishing a new marine PA is developed as per the provision of PPA and concerned laws.
4. Public relations/awareness for biodiversity conservation is improved by disseminating project related information.

The project design can be interpreted to have three distinctive tasks; 1) enhancement of administrative function of national government for PA network (Output 1), 2) enhancement of PA management and establishment functions of both national and local governments (Output 2 & 3) and 3) enhancement of information dissemination and public relation function of national government (Output 4). While Output 2 & 3 are core components to the project purpose, Output 1 & 4 are supporting components of the Output 2 & 3.

Target Areas

Proposed project target area covers approximately 612 km², which can be divided into two major types; terrestrial areas (396 km²) and marine/coastal areas (216 km²), as indicated below. The target PA for the Output 2 is the VNP to develop a terrestrial PA management model, and Koiari Rural LLG is the target LLG for livelihood related activities. Besides, the Output 3 targets Bootless Bay and its coast for the establishment of a new marine/coastal PA model.

Land Use Map of Project Target Areas



Output 1 Strengthen National Level Protected Area Governance !!!

Strengthening national-level governance and management arrangement for Protected Area Network



For strengthening PA governance and management, we work for

- **National Conservation Council (NCC)** to be legally clarified and actually installed.
- Related bodies such as **National Protected Area Round Table (NPART)**, **Regional Protected Area Round Table (RPART)** to be legally clarified.
- **Initiative of Central Provincial Government** to be supported for establishing provincial protected area in Bootless Bay.

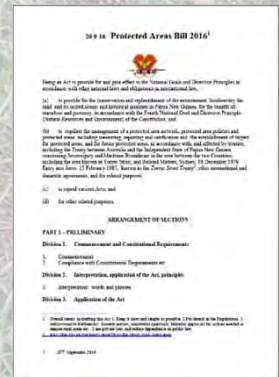
Achievements by December 2018

- Extensively reviewed existing legal framework, identified approach, and clarified the process for establishing NCC, NPART and RPART.
- Supported **Protected Area Bill and its Regulations** for NCC, NPART and RPART.
- Drafted various legal instruments including **bylaws of NCC, NPART and RPART**.

Targets for 2019-2020

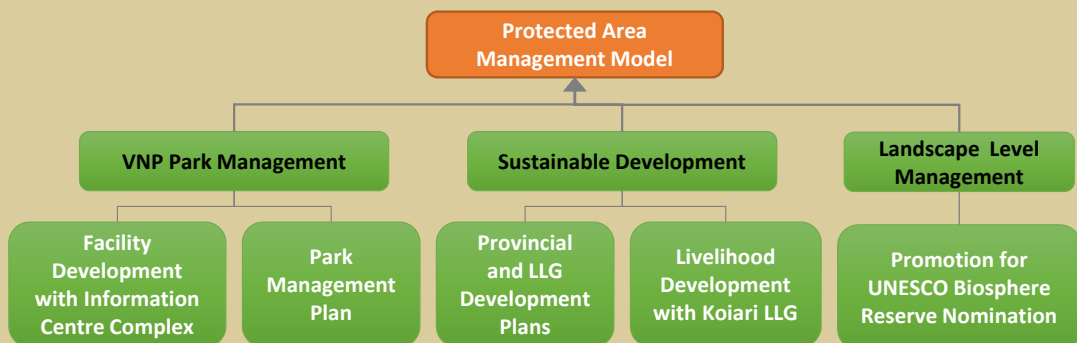
After the Protected Area Bill will become a Law,

- Nominate and appoint council members, and provide support for operating the NCC.
- Collaborate with Central Provincial Government for PA establishment.
- Promote concept of MAB program as a mean of landscape-level management.



Output 2 Varirata National Park as the State's Management Model !!!

The Varirata National Park (VNP) has been enhanced as a **Terrestrial Protected Area Management Model**.



For contributing to public reputation/appreciation of VNP, we work for

- **Various park facilities** to be restored and developed.
- **Park management plans** to be developed and to be used.
- **Biodiversity conservation of VNP landscape** to be integrated into the **local governments' development plans**.
- **Livelihood development options** to be developed with Koiari communities.



Achievements by December 2018

Developed and improved the Information Center (IC) and surrounding area as new IC Complex in September 2018

- Constructed new **Information Center**.
- Renovated old information center as **Kumul Auditorium**.
- Wood deck was installed as **Kibung Squire**.

Developed and installed exhibition as an icon of national Environmental Education

- Interior design for new information center was completed!

Committed CEPA for sustainable management and JICA for continuous support

- Memorandum of understanding (MOU) for the handover of IC complex was exchanged between CEPA and JICA.

Park Management Plan for Progress Stage of Park Management

- Table of Contents (ToC) was prepared in line with concept of biosphere reserve of UNESCO and requirement of its Nomination Form.
- Prepared draft **Park Management Plan** for further development.

Key activities as per the management plan

- Recruited new **park staff** and provided training.
- Prepared **bookkeeping manual** and conducted training.
- Records by **13 camera traps** are ongoing since 2016.



VNP stamps



Development Planning of local governments surrounding VNP

- Finalized **Koiari LLG development plan** and submitted to Hiri District.
- Made final report of achievement for **Koiari LLG and Central province development planning**.

A series of Livelihood Development Activities

- **Livelihood development plan** was finalized and used for their self-sustaining endeavor.
- **Community-based group** provided their **performance** at the total of two events in 2018 (total of five times).



KAE Association Inc. was Finally Born!!!

- Landowning clans (livelihood development groups) were organized to be registered as an association at **Investment Promotion Authority (IPA)** for business activity.
- KAE Association received **IPA registration certificate** (No.5-106235) on 12 March 2019, and **IRC (Internal Revenue Commission) TIN (Tax Identification No.)** on 21 March 2019.
- Various other activities are ongoing to make KAE Association sustainable (bank account opening, accounting training, study/exposure tour etc.)



Targets for 2019-2020

Continuous Park Management improvement

- Information Center Complex utilization(ICC)
- Financial management
- Security management
- Exotic species control
- Camera trap



Livelihood development with KAE Association Inc.

- Performance and service of social groups to be improved.
- Conduct hands-on trainings and a study/exposure tour.
- KAE to be developed as a partner for the park management.
- Sub-groups to be formed for park management by means of effective management.

Output 3 New Marine Protected Area to be created !!!

A model of establishing a new Marine Protected Area (MPA) as per the provision of PPA and concerned laws



For a model of MPA establishment, we work for

- **Deed for MPA** to be declared.
- **Regional Protected Area Round Table** to be established.
- **MPA Management Plan** to be prepared.



Achievements by December 2018

MPA establishment

- A **roadmap** for the establishment of a new MPA in PNG was prepared.
- **Rapid marine biodiverse survey** was carried out.
- **Five target site** have been selected for MPA establishment.
- One **memorandum of understanding with University of Papua New Guinea** was signed.

Officialization of MPA

- **Bootless Bay Marine Conservation Initiative (BBMCI)** was established as regional protected area round table.
- **Nineteen stakeholders** have been participated in BBMCI.
- The **road map** was approved by BBMCI.
- **Two workshops and four meetings** have been carried out under BBMCI.
- **Coastal clean-up event** was carried out under BBMCI.





Provincial Initiative as center for Regional Protected Area in PNG

- Various discussions and meets to the Governor of Central Province and his staff.
- **Survey** conducted on the provincial land to have MPA.
- **MoU and work plan** (CPG-CEPA) is about to be finalized.

Other Key Achievements

- Proposal for Establishment of a PA
- Marine Biodiversity Survey
- Training in Japan on MPA
- Public awareness
- Kayaks for mangrove monitoring



Targets for 2019-2020

MPA establishment

- MoUs with land owners
- Legal instruments for MPA



Officialization of MPA

- MPA proposal preparation
- Support by provincial government and local level government
- Series of meetings and workshops under BBMCI
- BBMCI to be RPART/PPART

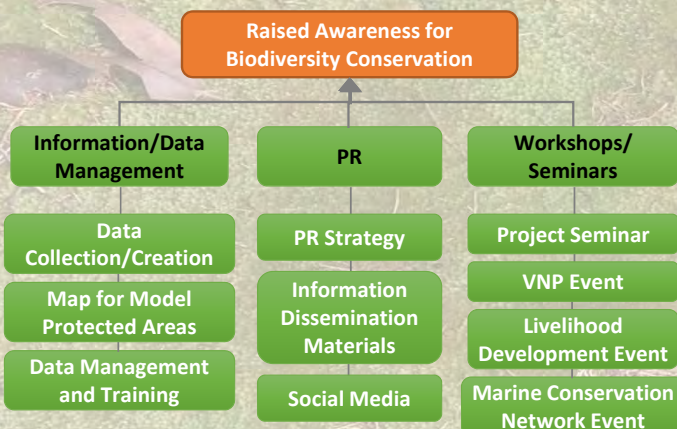


MPA management

- Boardwalk and observation tower
- MPA management plan including zoning
- Environmental education and awareness activities
- Monitoring MPA based on the management plan

Output 4 Raising Awareness for Biodiversity Conservation and Data Management !!!

Public Relations (PR)/awareness for biodiversity conservation by disseminating project related information



For raising awareness for biodiversity conservation and the Project activities, we work for

- **Data and information for model Protected Areas (PA)** to be collected and managed .
- **Strategy for PR/awareness** to be developed, and **information dissemination materials** to be elaborated and disseminated through appropriate media as per the PR strategy.
- **Workshops/seminars** to be conducted for better PR/awareness.

Achievements by December 2018

Information/Data Management for Model PA

- **WorldView-2 imagery** (Terrestrial areas: 494km², Marine / coastal areas: 223km²) was purchased.
- **GIS database** has been developed, and also **data and maps for each output** have been prepared.
 - ✓ **facility maps** of VNP,
 - ✓ detailed **land cover/use map** of proposed terrestrial areas,
 - ✓ **mangroves map** of Bootless Bay, Dogura Inlet and Tuna Bay including Joyce Bay in the NCD and Central Province,
 - ✓ **reef map** of targeted MPA,
 - ✓ **management zone map**, etc.
- **Manuals for updating VNP facility database** and others has been created.



PR of the Project Activities for biodiversity Conservation

- A **Public relations/awareness strategy and Action Plan** for the Project has been developed at the beginning, and reviewed and revised in the middle of the Project.
- A variety of **project PR tools** have been created as per the Public Relations strategy.
 - ✓ Project webpage (8 posts), facebook page (243 posts),
 - ✓ brochures (volume 1-5 and Marine ver.: 2,600 copies),
 - ✓ news letters (volume 1-7: 4,100 copies), factsheet (volume 1-2: 800 copies), Project Atlas (100 copies),
 - ✓ sign boards (21), banners (13), posters (34),
 - ✓ Guide map of VNP (5,500 copies), Field Guide brochures for VNP (1,000 copies), Biodiversity report book (110 copies),
 - ✓ polo shirts (69), T-shirts (200), stickers (2,062 copies), vest (60),
 - ✓ logos for VNP and BBMCI, stamps of VNP, etc.
- Project activities were disseminated through **media**.
 - ✓ more than 13 news articles appearances in newspaper,
 - ✓ promotion of the Project in the World Wildlife Day event,
 - ✓ running of a booth and made a presentation at the World Oceans Conference in UN HQ, in New York,
 - ✓ major sponsorship of the World Environment Day event at VNP, etc.



Workshops/Seminars for Better PR/Awareness

- **Seminars/workshops** has been held more than 19 times.

Targets for 2019-2020

- Data and maps for each output will be prepared such as Marine sanctuary map, Bird Watching map, and other maps related to biodiversity conservation and mangrove protection.
- Technical transfer for managing GIS database including VNP facility data will be implemented.
- Public relations strategy for the Project will be reviewed with the view to evaluate outcomes and efficiency.
- A variety of project PR tools will be created continuously, including Bird watching guide book, Guide book for mangrove, VNP promotion video.
- Seminar/workshop will be held.



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<http://pngcepa.com/projects/>



Technical Cooperation CEPA - JICA Biodiversity Project 2015-2020



Annual Report 2019

The Project for Biodiversity Conservation through
Implementation of the PNG Policy on Protected Areas



**CEPA - JICA
Biodiversity Project**



Project Period: Five (5) years commencing from June 2015

Targets: Provincial administration(s), district administration(s) and LLG government(s) surrounding the target Protected Areas

Implementing Agency: Conservation and Environment Protection Authority (CEPA),
Japan International Cooperation Agency (JICA)

Target Protected Areas: Terrestrial – Varirata National Park,
Marine/Coastal – to be defined

Land Use Map of Project Target Areas

Background

PNG is one of the richest biodiversity countries in the world, while among the total population of 7.3 million in PNG, over 80% of them are in rural areas and still directly dependent on the natural environment with the rich biodiversity for their subsistence and livelihoods.

To address biodiversity conservation, the government of Papua New Guinea and Japan jointly launched a technical cooperation called the Project for Biodiversity Conservation through Implementation of the PNG Policy on Protected Areas. The project commenced in June 2015 and will run for a five (5) year period. The implementing agencies are Conservation and Environment Protection Authority (CEPA) and Japan International Cooperation Agency (JICA).

Project Framework

Project Purpose

Institutional capacity of CEPA for protected area (PA) management is strengthened through enhancing national-level PA governance and sustainable use of natural resources with local communities in the model PA(s) as per the provision of the Policy on Protected Areas (PPA).

Overall Goal

Protected Area Network is effectively managed by applying PA management (and establishment) model(s), which were developed by the Project.

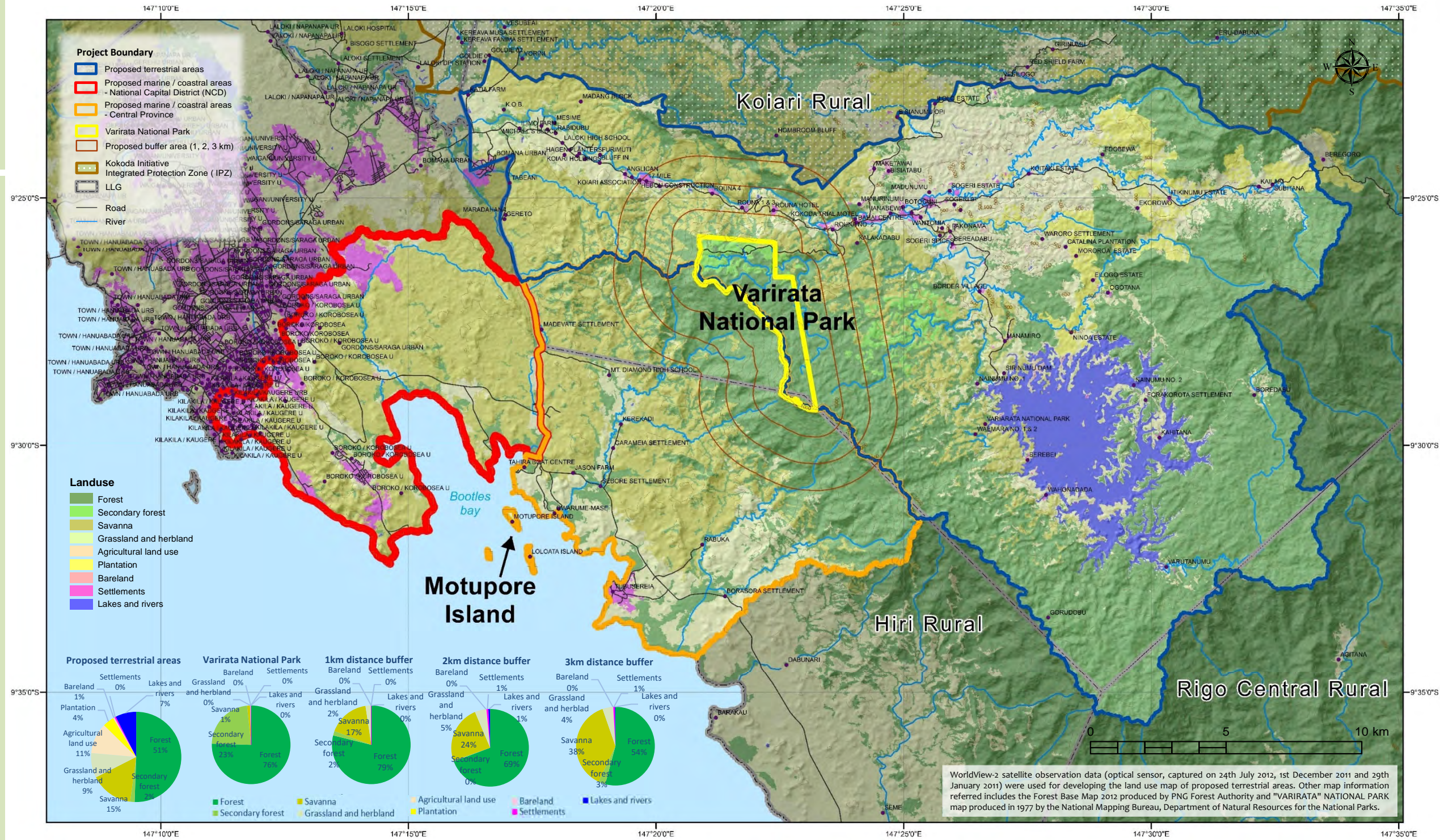
Outputs

1. National-level governance and management arrangement for Protected Area Network (i.e., PPA Action Plan, National Conservation Council (NCC)) is strengthened.
2. The Varirata National Park (VNP) is enhanced as a terrestrial PA management model in accordance with PPA.
3. A model of establishing a new marine PA is developed as per the provision of PPA and concerned laws.
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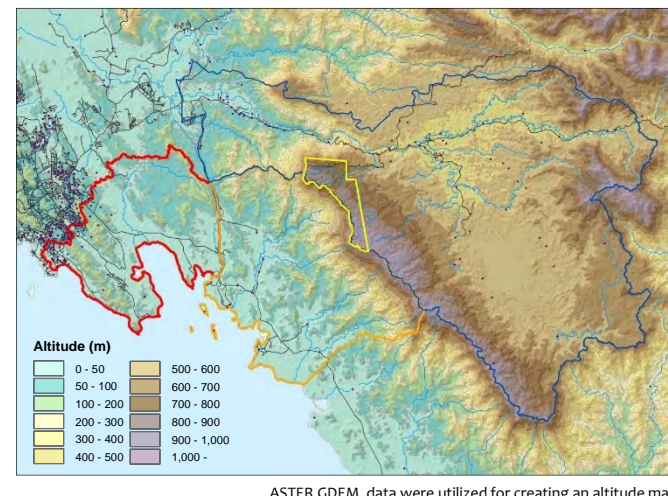
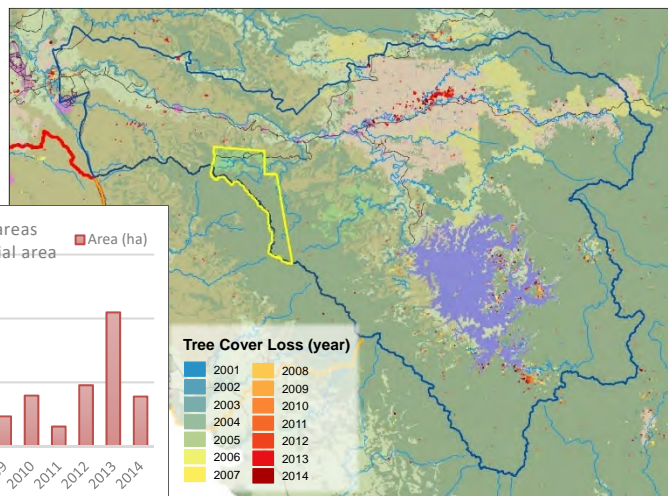
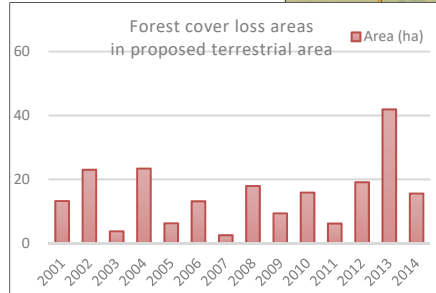
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Target Areas

Proposed project target area covers approximately 612 km², which can be divided into two major types; terrestrial areas (396 km²) and marine/coastal areas (216 km²), as indicated below. The target PA for the Output 2 is the VNP to develop a terrestrial PA management model, and Koiairi Rural LLG is the target LLG for livelihood related activities. Besides, the Output 3 targets Bootless Bay and its coast for the establishment of a new marine/coastal PA model.



Tree cover loss published by Professor Hansen, et al. in Maryland University, USA. shows yearly forest reduction between 2001 and 2014 based on an algorithm to extract areas where decrease of vegetation taller than 5m in height was occurring utilizing imagery of LANDSAT 7 and LANDSAT 8.



ASTER GDEM data were utilized for creating an altitude map.



SRTM DEM data were utilized for analyzing slope.

Output 1 Strengthen National Level Protected Area Governance !!!

Strengthening national-level governance and management arrangement for Protected Area Network

Better Protected Area
Governance and Coordination

NCC Establishment

NCC Operation

For strengthening PA governance and management, we work for

- **National Conservation Council (NCC)** to be clarified and actually installed.
- Related bodies such as **National Protected Area Round Table (NPART)**, **Regional Protected Area Round Table (RPART)** to be clarified.
- **Ensure initiative of Central Provincial Government (CPG)** to establish provincial protected area in Bootless Bay.

Achievements by December 2019

- Clarified all related issues and make **NPART as an Interim NCC** ready to be established.
- Extensively reviewed existing framework, identified approach, finalized necessary documents, and established **VNP Management Committee**.
- **MoU between CPG and CEPA** to promote marine protected area establishment was signed.
- Drafted various instruments such as ToR for **Protected Area Working Group (PAWG)** for **Bootless Bay National Marine Sanctuary**.

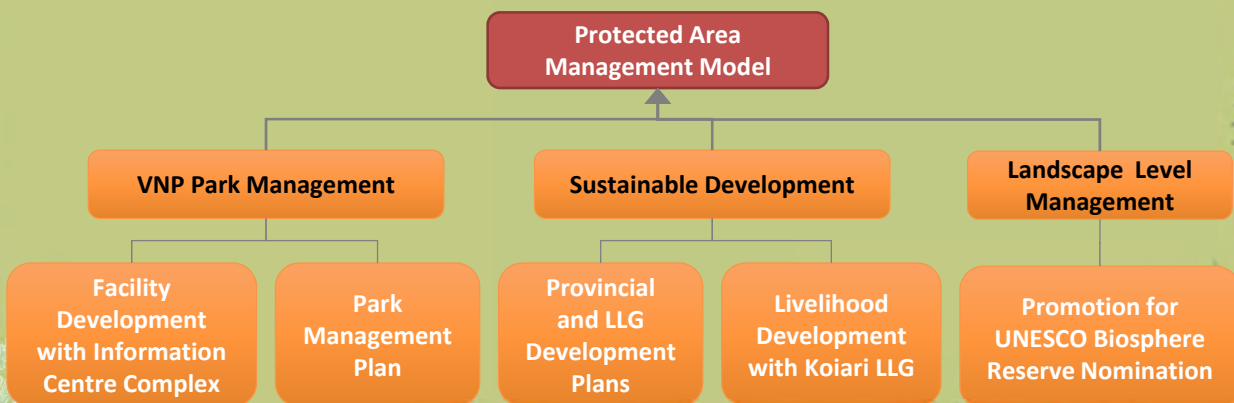
Targets for 2020

- Officially establish **NPART** as an interim body of NCC.
- Collaborate with CPG for PA establishment.
- Construct CEPA Marine Station at Tahira to promote **Bootless Bay National Marine Sanctuary**.
- Promote concept of MAB program as a mean of landscape-level management.



Output 2 Varirata National Park as the State's Management Model !!!

The Varirata National Park (VNP) has been enhanced as a **Terrestrial Protected Area Management Model**.



For contributing to public reputation/appreciation of VNP, we work for

- **Various park facilities** to be restored and developed.
- **Park management plans** to be developed and to be used.
- **Biodiversity conservation of VNP landscape** to be integrated into the **local governments' development plans**.
- **Livelihood development options** to be developed with Koiari communities.



Achievements by December 2019

Developed and improved the Information Center (IC) and surrounding area as new IC Complex in September 2018

- Constructed new **Information Center**.
- Renovated old information center as **Kumul Auditorium**.
- Wood deck was installed as **Kibung Squire**.



Key activities as per Park management plan prepared by the Project

- **Camera trap** was installed at the park gate to tighten security.
- Cars visiting the Park were continuously monitored.
- **The park management committee of VNP** was established in November 2019.
- First and second meeting of park management committee were held.
- **Relevant forms** such as ticket and receipt for collecting admission fee were prepared.
- Park staff has continuously collected **admission fee** at the park gate since March 2019.



Development Planning of local governments surrounding VNP

- Finalized **Central Province development plan** by Central Provincial Government.
- Made final report of achievement for **Koiari LLG and Central province development planning**.



A series of Livelihood Development Activities

- **KAE Association Inc.** (livelihood development groups) provided their **performance** at the total of three events in 2019 (total of seven times).
- **Study/exposure tour** was held with 20 participants to improve their performance to international/national tourists.
- **First book-keeping training** was carried out to improve their ability of financial management.
- **Bank account for KAE Association** was opened in October 2019.
- **Packaged tour** was developed with KAE Association and **first trial tour** was conducted in November 2019.
- Monitored **livelihood development activities** based on the livelihood development plan.



Targets for 2020

Continuous Park Management improvement

- Information Center Complex utilization (ICC)
- Financial management
- Security management
- Camera trap

MAB nomination form

- Draft MAB nomination form

Livelihood development with KAE Association Inc.

- Performance and service of social groups to be improved.
- An evaluation workshop for KAE Association Inc. to be conducted.
- KAE to be developed as a partner for the park management.



Output 3 New Marine Protected Area to be created !!!

A model of establishing a new Marine Protected Area (MPA) as per the provision of PPA and concerned laws



For a model of MPA establishment, we work for

- **Easement for MPA** to be declared.
- **MPA Proposal** to be prepared.
- **MPA Management Plan** to be prepared.



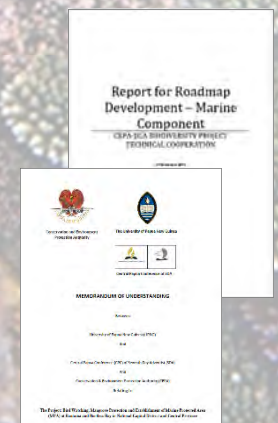
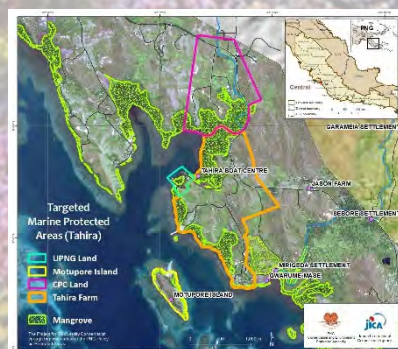
Achievements by December 2019

MPA establishment

- A roadmap for the establishment of a new MPA in PNG was prepared.
- **Rapid marine biodiverse survey** was carried out.
- **Five target sites** were selected for MPA establishment.
- **Four memorandum of understanding with landowners of Bootless Bay area** were signed.
- **Deeds and conservation easements** were drafted.

Officialization of MPA

- **Bootless Bay Marine Conservation Initiative (BBMCI)** was established as stakeholder network.
- **The road map** was approved by BBMCI.
- **Three workshops and eight meetings** have been carried out under BBMCI.
- **Coastal clean-up event** was carried out under BBMCI.
- **Bootless Bay National Marine Sanctuary Working Group** was established.
- **MPA proposal** was finalized.





MPA management

- Facility construction was planned.
- **MPA awareness signboards** were installed.
- **MPA awareness activities** have been carried out.
- **Marine biodiversity survey** was conducted.
- ToR of MPA management committee was drafted.
- MPA management plan was drafted.
- **Mangrove identification guide** was prepared.



Other Key Achievements

- **Proposal form for Establishment of a PA** was prepared.
- **Training in Japan on MPA** was carried out.
- **Boat with motor and Kayaks** for mangrove monitoring were purchased.

Targets for 2020

MPA establishment

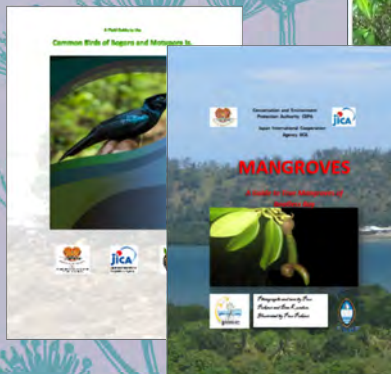
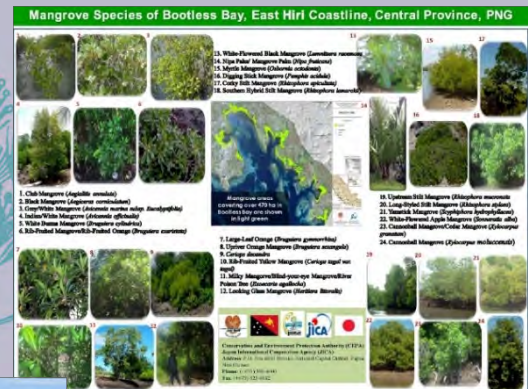
- Conservation easements to be signed.

Officialization of MPA

- Series of meetings and workshops under BBMRI to be held.

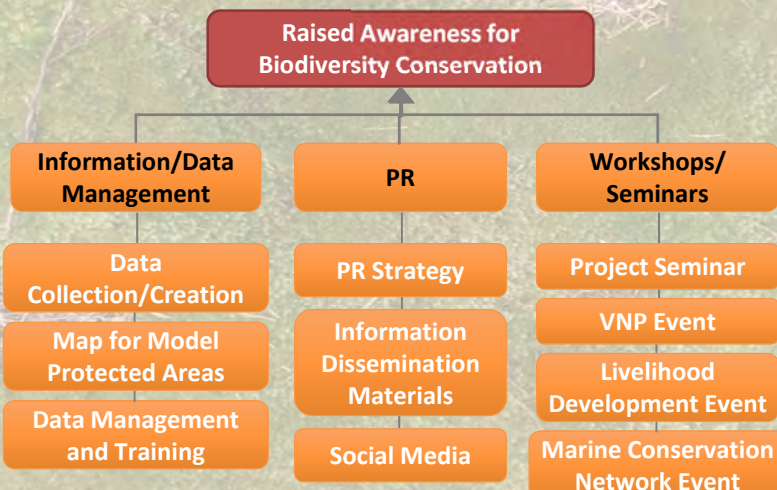
MPA management

- MPA management office construction at Tahira to be completed.
- Socio-economic survey to be completed.
- MPA management committee to be established.
- MPA management plan to be prepared.
- Bird guide to be printed and distributed.



Output 4 Raising Awareness for Biodiversity Conservation and Data Management !!!

Public Relations (PR)/awareness for biodiversity conservation by disseminating project related information



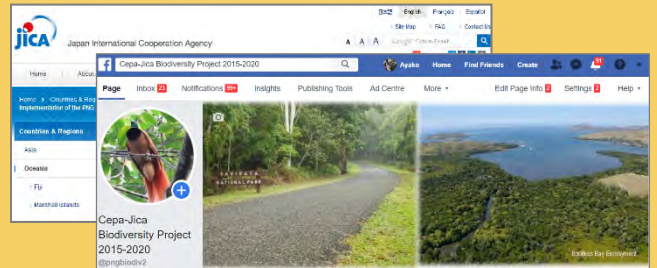
For raising awareness for biodiversity conservation and the Project activities, we work for

- **Data and information for model Protected Areas (PA)** to be collected and managed .
- **Strategy for PR/awareness** to be developed, and **information dissemination materials** to be elaborated and disseminated through appropriate media as per the PR strategy.
- **Workshops/seminars** to be conducted for better PR/awareness.

Achievements by December 2019

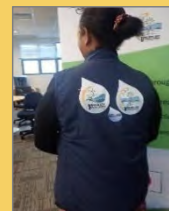
Information/Data Management for Model PA

- **WorldView-2 imagery** (Terrestrial areas: 494km², Marine / coastal areas: 223km²) was purchased.
- **GIS database** has been developed, and also **data and maps for each output** have been prepared.
 - ✓ **facility maps** of VNP,
 - ✓ detailed **land cover/use map** of proposed terrestrial areas,
 - ✓ **mangroves map** of Bootless Bay, Dogura Inlet and Tuna Bay including Joyce Bay in the NCD and Central Province,
 - ✓ **reef map** of targeted MPA,
 - ✓ **management zone map**,
 - ✓ **Bootless Bay National Marine Sanctuary map**, etc.
- **Manuals for updating VNP facility database** and others have been created.



PR of the Project Activities for biodiversity Conservation

- A **Public Relations/awareness strategy and Action plan** for the Project has been developed at the beginning, and reviewed and revised in the middle of the Project.
- A variety of **project PR tools** have been created as per the PR strategy.
 - ✓ Project webpage (11 posts), facebook page (358 posts),
 - ✓ brochures (volume 1-6 and Marine ver.: 3,100 copies),
 - ✓ news letters (volume 1-9: 4,200 copies), factsheet (volume 1-2: 800 copies), Project Atlas (100 copies),
 - ✓ sign boards (22), banners (19), posters (56),
 - ✓ Guide map of VNP (5,500 copies), Field Guide brochures for VNP (1,000 copies), Biodiversity report book (110 copies), Mangrove identification guide of Bootless Bay (500 copies), Common birds field guide of Bootless Bay (500 copies)
 - ✓ polo shirts (69), T-shirts (200), stickers (3,062 copies), vest (60),
 - ✓ logos for VNP and BBMCI, stamps of VNP, etc.
- Project activities were disseminated through **media and events**.
 - ✓ more than 17 news articles appearances in newspaper,
 - ✓ promotion of the Project in the World Wildlife Day,
 - ✓ running of a booth and made a presentation at the World Oceans Conference in UN HQ, in New York,
 - ✓ major sponsorship of the World Environment Day event at VNP,
 - ✓ acceptance of students of Pacific Adventist University on internship,
 - ✓ event of community awareness on Bootless Bay MPA,
 - ✓ VNP one day tour packages, etc.



Workshops/Seminars for Better PR/Awareness

- **Seminars/workshops** has been held more than 22 times.

Targets for 2020

- Technical transfer for managing GIS database including VNP facility data to be implemented.
- Public relations strategy for the Project to be reviewed with the view to evaluate outcomes and efficiency, and created the final report.
- A variety of project PR tools to be created continuously, including VNP promotion video.
- Seminar/workshop to be held.



**Conservation and Environment Protection Authority (CEPA)
Japan International Cooperation Agency (JICA)**

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Outline of the Project

Project Purpose

Institutional capacity of CEPA for protected area (PA) management is strengthened through enhancing national-level PA governance and sustainable use of natural resources with local communities in the model Protected Areas as per the provision of the Policy on Protected Areas.

Overall Goal

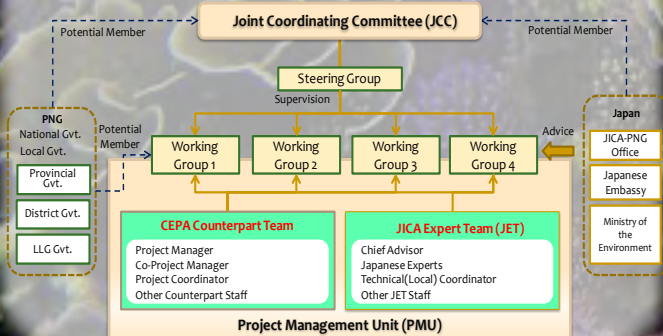
Protected Area Network is effectively managed by applying Protected Area management (and establishment) model(s), which were developed by the Project.

Outputs

1. National-level governance and management arrangement for Protected Area Network (i.e., PPA Action Plan, National Conservation Council (NCC) is strengthened.
2. The Varirata National Park (VNP) is enhanced as a terrestrial PA management model in accordance with PPA (Policy on Protected Area).
3. A model of establishing a new marine PA is developed as per the provision of PPA and concerned laws.
4. Public relations/awareness for biodiversity conservation is improved by disseminating project related information.

Project Coordination Body

CEPA Counterpart Team and JICA Expert Team (JET) form the Project Management Unit (PMU) to be a project implementation body. Besides, Working Groups (WGs) are formed in specific task or/and output wise. The members of WGs are nominated from not only CEPA and JICA, but concerned institutions of national, provincial and local levels, universities, research institutions, NGOs and other agencies.



Technical Cooperation CEPA - JICA Biodiversity Project 2015-2020

The Project for Biodiversity Conservation through Implementation of the PNG Policy on Protected Areas (Output 3 version)

Basic Information of the Project

Project Period:	Five (5) years commencing from June 2015
Implementing Agency:	Conservation and Environment Protection Authority (CEPA) Japan International Cooperation Agency (JICA)
Targets:	Provincial administration(s), district administration(s) and Local Level government(s) surrounding the target Protected Areas
Target Protected Areas:	Terrestrial – Varirata National Park Marine/Coastal – Bootless Bay



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Outline and Objectives of Output 3

Addresses the coastal and marine issues, which specifically focuses on a model establishing a new Marine Protected Area (MPA) is developed as per the provision of Policy on Protected Area (PPA) and other relevant legislations and Acts. The project focused on Bootless Bay, because Bootless Bay has a wide range of issues that include environmental degradation causing ecological imbalances, influx of human settlements along the narrow coastal fringes, overfishing in the mangroves and inter-tidal zones, and proposed major developments including a new wharf, and a fuel terminal, amongst others

Major Activities

- Model of establishing new MPA developed as per the provisions of the PPA. Under this Output 3, Bootless Bay was selected through stakeholder consultations and biodiversity survey, and 4 MPA sites were targeted.
- Consult with local governments and communities including customary landowners to seek potential for establishing new protected area of either regional and/or national importance.
- Develop a proposal for a new MPA with conducting social mapping and public consultation.
- Consult with Regional or National Protected Area Roundtable and local and national governments to be endorsed with the official procedure for gazettement of new protected area.
- Prepare new Management Plan for the new marine MPA.

Bootless Bay Marine Conservation Initiative

The BBMCI was formulated under Output 3 of CEPA-JICA Project as a high level consultation process to allow for information sharing and exchange, consultations and collaborations regarding activities within Bootless Bay.

Many stakeholders of Bootless Bay participate to BBMCI. For example, CVES, PNG Ports LTD, PNG Harbour Management Services, National Maritime Safety Authority, Coastal Fisheries Development Agency, Hiri Local Level Government, PNG Tourism Promotion Authority, Gereka Village Community, HELP Inc., Central Provincial Government, Pari Women's Development Association, National Fisheries Authority, PNG Centre for Locally Managed Areas, Central Papua Conference-SDA, Pacific Energy Aviation Fuel LTD, and Tubuseria BLRA.

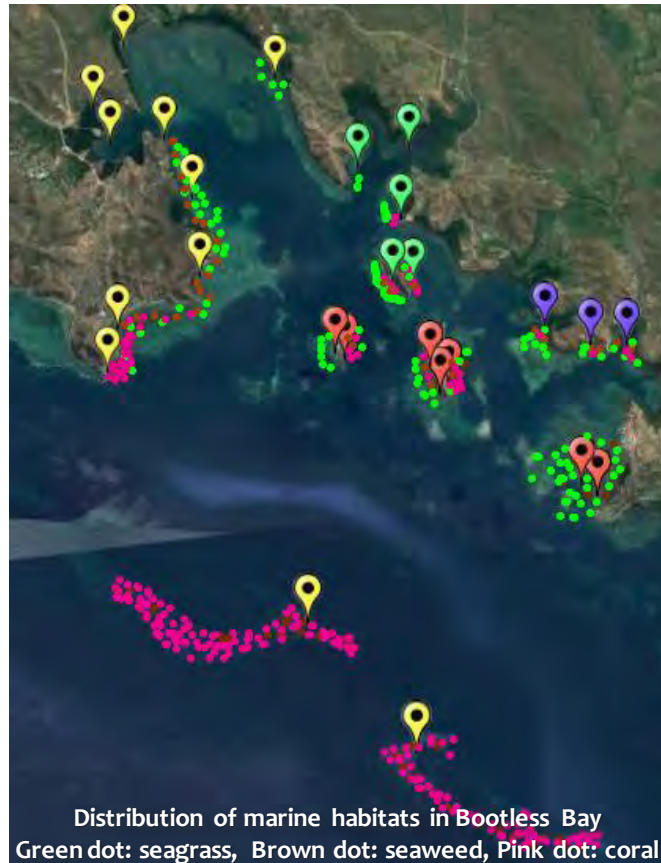
Rapid Marine Biodiversity Survey in Bootless Bay

A rapid marine biodiversity survey in Bootless Bay was done in late October to November of 2016 to determine habitat distribution in the Bootless Bay. The objectives of the survey were to:

- Understand marine habitat distribution and their conditions.
- Determine the extent and status of main marine habitat types including seagrass, seaweeds, corals and muddy bottoms in the Bootless Bay.
- Share the result with stakeholders of Bootless Bay.
- Select candidate sites for MPA by CEPA-JICA Project.

The report of survey presented distribution and density of marine habitats in Bootless Bay. Three key threats identified from this survey were;

- Decline of fish resources
- Mangrove degradation
- Marine debris



4 Targeted MPAs

A Roadmap to establish MPA in PNG was written by CEPA-JICA project. The Roadmap concluded four targeted MPAs include the following:

- Central Papua Conference Bautama Tahira Mangrove Conservation MPA. This MPA allows for zonation include bird watching, boardwalks, mangrove conservation areas and education and research mangrove areas.
- University of PNG (UPNG) Tahira Mangrove Conservation MPA. This project allows for joint collaboration with UPNG for mangrove conservation, education and research.
- Motupore Island MPA. This MPA allows for coral reef, sea grass and mangrove conservation for research and education purposes.
- Aioro (Horseshoe) Reef MPA. This project allows for coral reef conservation and sustainable management to allow for reef fish species sustainability and coral reef conservation.



Mangrove forest of Bootless Bay



Healthy corals found in Bootless Bay