

## ANNUAL PROGRESS REPORT 2016

### Cross-Cutting Capacity Development Project – Papua New Guinea

Award No.	PIMS 4930
Business Unit	PNG10
Award ID	00080825
Project No.	00090395
Description	<p>This project builds upon the commitment of the Government to strengthen the environmental management information system within the Department of Environment and Conservation. The barriers to good environmental governance for the global environment are fundamentally an issue of accessing good knowledge and having a good system by which to make best use of this knowledge. The sustainable development baseline of the project lies in the Government's commitment to set up an environmental management information system, upon which GEF support will be used to strengthen the use of this system to access data and information directly relevant to the three Rio Conventions. In this way, the preparation of planning frameworks can be better informed of global environmental trends. GEF funds will be used to train government staff through directed workshops on <i>how</i> to collect and manage data and information relevant to planning best practices for global environmental governance in the three Rio Convention focal areas. The learn-by-doing exercises will be used to take the training one step further to train people to critical think about the know of data and information to create knowledge through practical testing and application. Whereas the GEF focal area projects currently under operation focus on the development, testing and application of focal area best practices, the CCCD project is targeted to institutionalizing the underlying set of capacities to carry out this work. The objective of this project is therefore to strengthen targeted capacities to establish and use an integrated Environmental Management Information System. In addition to the installation of the integrated EMIS and training on its use, the project will help institutionalize the EMIS by demonstrating its value and financial sustainability to stakeholders, as well as facilitating the appropriate legislative and institutional reforms.</p>
Implementing Partner	Department of Environment and Conservation
Award Period	September 2014- August 2017
Total Award Amount	US\$ 500,000

## SECTION 1. Project Risk and Issues

### Updated Project Risks

Type	Date Identified	Description	Comment or Management Response	Flag
Institutional	Aug 2015	Transition process of DEC to CEPA is ongoing hence focal point for CCCD project is in a state of flux. The project had to contend with managing internal dynamics in the Policy wing of CEPA, which was also affected by the transition from a government department to a full statutory authority (fear of losing their job). Briefing for newly appointed NPD and their operational focal points required to engage and instil ownership of DEC/CEPA team to project activities. This has impacted further delays in implementation.	Resolved with the appointment of the National Project Director.	Y
Operational	March 2016	Staff turnover and weak capacity to coordinate among different divisions and/or with government line agencies. Local capacity has deterred for the project board to be convened to either discuss the project progress or to review the implementation issues.	Project team is well informed of the risk; Project board to be convened in July 2017.	Y
Operational	Sept 2016	Timeline to open a RFP to design EMIS was delayed due to proposed relocation of CEPA office. It is anticipated that decision from the Prime Minister's office will be made in March 2017, when Parliament approves the national budget.	Due to budget cuts, proposed office relocation was put on hold.	Y

## SECTION 2. Output/Activity Progress

Outputs	Indicator	Key activities	Progress to date Jan 2016- March 2017	Accomplishments April 2015- December 2015
1.1 Establish an integrated Environment Management Information System (EMIS) for Monitoring and Reporting on Global Environmental benefits	In-depth baseline assessment of current management information system.	Undertake in-depth assessment of current baseline information management system at the national level	<p>Summary report on IT infrastructure (existing desktop hardware and server infrastructure) completed wherein basic issues are around the quality of the existing computing environment, understanding of how systems can be used to streamline work, clarity of direction and a non-sharing environment were detailed out.</p> <p>Spatial Data Audit and Capacity Audit mostly completed. Meetings held with relevant technical staff in other wings to understand their business processes. Draft report for discussion in July 2017.</p>	Deliverables included in the micro grant agreement with Bishop Museum signed in December 2015. The Museum will assist CEPA to strengthen the essential biodiversity information for PNG - . This Project supports CEPA in the establishment of an environmental information management system, by reviewing and updating old data particularly on CITES, Ramsar, water use, among other aspect of biodiversity information as required to report on the progress on CBD, UNCCD and UNFCCC.
	A review of best practice tools for environmental data and metadata sharing and storage management at all levels as part of the design of an integrated EMIS	Design EMIS based on best practice web base tools for environmental data and meta data sharing and storage management	Funded through another existing GEF project, CEPA on a study mission in Aug 2016 to look at how the federal and state governments established and implements its biodiversity offset program through the offset and EIA policies and processes it has instituted together with the data tools and applications of ERIN to assess EIA application.	DEC/CEPA officials recommended for the project to pursue discussions on Environmental Resources Information Network (ERIN) which manages environmental and spatial information products, advice, analysis and tools for the Department of Environment and Energy -Australia (DoEE) <a href="http://www.environment.gov.au/about-us/environmental-information-data">http://www.environment.gov.au/about-us/environmental-information-data</a> .
		Undertake an independent peer review of EMIS design	Vacancy announcement for EMIS architecture to be ready by end June 2017. TOR is being revised to include technical feedback as well as the conduct of an independent peer review.	The Project facilitated discussion and consensus within CEPA what are the key information that are also based on their mandates that can be the data source and integrated in EMIS. The products from the

Outputs	Indicator	Key activities	Progress to date Jan 2016- March 2017	Accomplishments April 2015- December 2015
				different stand-alone information system will serve as a separate layer and integrated into an ArcGIS under the EMIS system. CEPA executive staff have been replaced by semi-regular meetings of the EMIS steering committee. This is chaired by the new DMD, Dilu Muguwa.
	An integrated EMIS infrastructure	EMIS infrastructure	Vacancy announcement for EMIS architecture to be ready by end June 2017. TOR is being revised to include technical feedback as well as the conduct of an independent peer review.	None yet to report
1.2 Technical capacities for EMIS	Expert working groups will be established under each of the Rio Conventions	Establish expert working group under each Rio Convention to review data and information needs for decision making	<p>Since the start-up phase, CEPA in-house working group have been convened to progress on information management issues. Key staff identified and engaged as much as possible to date.</p> <p>Meeting in 2016 were scaled down to give way to overlapping schedules related to the Protected Area policy and replaced with briefings to the executive staff of CEPA. Meetings largely focused on acquisition of new servers but there have been several meetings discussing the overall approach and design towards EMIS.</p>	Consensus was reached during the Inception Workshop in Dec 2015 that this CCCD project will focus in establishing datasets that coincide with key indices related to biodiversity information only while climate change will be managed by the Office of Climate Change and Development. In lieu of a realistic end-Project target, work on land desertification is considered outside of the preview of this project since there is no government agency with a mandate on this thematic area.
	A collection of the best practices for collecting technical data and information for the Rio Conventions.	Identify and select Rio conventions indices and measurement methodologies for EMIS as well as responsible lead	Letters sent out to relevant agencies with data related to Rio conventions to inform of the initiatives under this project and request appointments to discuss possible collaboration points for collecting data.	None yet to report

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		agencies for collecting data	Meetings have been held with key technical staff in the conservation and environment protection divisions to identify available data source required for NBSAP and the 5 <sup>th</sup> as well as 6 <sup>th</sup> national report on CBD.	
	Identify lead agencies who will collect the required data and information for Rio Reporting	Prepare training modules on the collection and use of environmental data and information for each Rio Convention	Training module to be developed in conjunction with system being developed.	Not implemented
	A training course module for all technical government staff that have responsibilities related to the collection and use of environmental data participate in all training courses	Undertake the training courses based on the developed training modules for the collection and use of the environmental data and information for each of the Rio Conventions	Training module to be developed in conjunction with system being developed.	Not implemented
2.1 Institutional strengthening for improved monitoring of global environment and capacity	Agreement on recommendations of institutional reforms	Convene expert working group and undertake stakeholder meetings to agree on recommendations	ExxonMobil and PNG Binatang Research Center (BRC) both expressed interest to share their data to CEPA. ExxonMobil conducts biodiversity survey yearly along its pipeline due to Corporate Social Responsibility on biodiversity offset. BRC on the other hand is a research institution that manages a data system on insects.	Based on the agreement at the Inception Workshop (Dec 2015), requirements for institution reforms is beyond the scope of this project. Instead of a new legislation, an administrative order or a standard agreement to be set in place is recommended to facilitate the sharing and exchange of biodiversity

<b>Outputs</b>	<b>Indicator</b>	<b>Key activities</b>	<b>Progress to date</b> Jan 2016- March 2017	<b>Accomplishments</b> April 2015- December 2015
to replicate successful environmental information management and integrated practices	Parliamentary brief for approval on appropriate, institutional reforms  Memorandum of agreement among key partner agencies to pilot the sharing of data and information during the project life	for institutional reforms  Supporting the drafting of a bill or an appropriate legal instrument	Collated samples of existing Memorandum of Understanding for review, e.g. CEPA, University of Queensland.	information between DEC/CEPA and its partners.  Not implemented
	Resource mobilization plan is prepared, peer reviewed and approved by Project Steering Committee	Prepare and approve resource mobilization plan	Financial gaps such as procurement of GIS and data storage augmented by other existing GEF projects. Project following-up commitment made by DFAT-funded project known as the Kokoda Initiative to purchase an updated ArcGIS license for CEPA.	Not implemented
2.2 Data flow system and tracking	A collection of best practices and software for collecting and sharing data and information, including their use to prepare complex models	Contract an independent assessment review best practice and software for data collection and sharing and information exchange including	Liaison with existing other CCCD projects in Asia and the Pacific was undertaken to look at EMIS design. However, based on an interview for the CCCD Study, Mr. Jean-Jo Bellamy confirmed in Dec 2016 that a successful EMIS model has yet to be developed in any country.	Liaison with existing other CCCD projects in Asia and the Pacific (Fiji, Philippines, Tajikistan, Vanuatu) was undertaken to look at an existing EMIS model.  DEC/CEPA officials recommended for the project to pursue discussions on Environmental Resources Information Network (ERIN) which manages environmental and spatial

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		their use in complex model designing	Funded through another existing GEF project, CEPA on a study mission in Aug 2016 to look at how the federal and state governments established and implements its biodiversity offset program through the offset and EIA policies and processes it has instituted together with the data tools and applications of ERIN to assess EIA application.	information products, advice, analysis and tools for the Department of Environment and Energy -Australia (DoEE) <a href="http://www.environment.gov.au/about-us/environmental-information-data">http://www.environment.gov.au/about-us/environmental-information-data</a> .
	An architecture for the storage and transformation of data and information	Construct an institutional architecture for the storage and transformation of data and information	As a result of the grant agreement, Bishop Museum initially supplied CEPA with: <ul style="list-style-type: none"> <li>• 144,774 georeferenced specimen records of amphibians and reptiles from the Papuan region. These data were originally obtained from some 30 museums around the world with significant Papuan holdings.</li> <li>• 159,058 records of Papua New Guinea plants which have been enhanced data from the PNGPlants Database.</li> <li>• GIS shape files of 342 amphibians, 335 reptiles, 298 mammals and 813 birds, for a total 1788 taxa. These files which include all known species as of mid-2016 were incorporated into the updated PoWPA exercise conducted by the University of Queensland in October 2016 funded by GEF4 project.</li> </ul>	Grant agreement signed with Bishop Museum in Dec 2015 to strengthen essential biodiversity information for PNG and more importantly to mobilize data with accurately georeferenced species occurrence records of plants and animals including CITES and fresh water fish. Under the same agreement, Bishop Museum will deliver also the EMIS demonstration through an ArcGIS data. EMIS will be piloted in four selected sites to showcase the potential contribution to conservation planning and even to EIA application. Selection of sites were based on readily available data and information on biodiversity in the Kokoda Interim Protected Zone, New Britain Island, Varirata National Park and the Kamiali research station.
	A mechanism for monitoring the use of data and information for	Develop a tracking mechanism to monitor the usage of EMIS for policy	GIS shape files of 1788 taxa provided in the updating of PoWPA exercise conducted by the University of Queensland in October 2016 funded by GEF4 project. The draft	Not implemented

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	<p>policy formulation and development planning</p> <p>Using the EMIS for the preparation of national reports under the Rio Conventions and other MEAs</p>	<p>formulation and development planning and preparation of national reports under the Rio Conventions and other Multilateral Environmental Agreements</p>	<p>POWPA report which integrates marine and terrestrial priorities for conservation including Reef-to-Ridge areas provided an opportunity for experts and government agencies to nominate gaps in the data or priorities and to allow for review of spatial locations of priority sites.</p>	
<p>Output 2.3: EMIS Demonstration</p>	<p>A collection of data and information requirements for their potential impacts on the global environment</p> <p>An expanded EIA methodology that integrates the new best practice methodologies and EMIS</p> <p>A peer review of the draft EIA</p>		<p>As a result of the grant agreement, Bishop Museum initially supplied CEPA with:</p> <ul style="list-style-type: none"> <li>• 144,774 georeferenced specimen records of amphibians and reptiles from the Papuan region. These data were originally obtained from some 30 museums around the world with significant Papuan holdings.</li> <li>• 159,058 records of Papua New Guinea plants which have been enhanced data from the PNGPlants Database.</li> <li>• GIS shape files of 342 amphibians, 335 reptiles, 298 mammals and 813 birds, for a total 1788 taxa. These files which include all known species as of mid-2016 were incorporated into the updated PoWPA exercise conducted by the University of Queensland in October 2016 funded by GEF4 project.</li> </ul>	<p>Grant agreement signed with Bishop Museum in Dec 2015 to strengthen essential biodiversity information for PNG and more importantly to mobilize data with accurately georeferenced species occurrence records of plants and animals including CITES and fresh water fish. Under the same agreement, Bishop Museum will deliver also the EMIS demonstration through an ArcGIS data. EMIS will be piloted in four selected sites to showcase the potential contribution to conservation planning and even to EIA application. Selection of sites were based on readily available data and information on biodiversity in the Kokoda Interim Protected Zone, New Britain Island, Varirata National Park and the Kamiali research station.</p>

### SECTION 3. Annual Work Plan for 2017

EXPECTED OUTPUTS And baselines, indicators including annual targets	PLANNED ACTIVITIES List activity results and associated actions	TIMEFRAMES				RESPON PARTY	PLANNED BUDGET				
		Q1	Q2	Q3	Q4		Fund ID	Donor Name	Account Code	Budget Description	Amount (in USD)
<b>Activity Result 1.</b> A data storage and management system for 3 Rio convention monitoring and reporting											
<b>Indicator:</b> In-depth baseline assessment of current management information system within CEPA <b>Baseline:</b> 3 Rio Conventions not domesticated since ratification of PNG, dataset within CEPA are mostly paper-based or semi-automated <b>Target:</b> Design and conduct feasibility study for EMIS supported	Activity 1.1: Design the integrated Environmental Management Information System, based on agreed key CBD indicators to be updated for Rio reporting					CEPA, UNDP	62000	GEF	71200	International consultant	74,500
						CEPA, UNDP	62000	GEF		Local consultant	41,575
						CEPA, UNDP	62000	GEF		Workshop materials	2,000
	Activity 1.2 Support the installation of EMIS infrastructure within CEPA premises ( <i>funded under GEF 5</i> )										
<b>Activity Result 2.</b> Strengthened technical capacity to manage and use integrated information systems for Rio Convention implementation											
<b>Indicator:</b> Collate and updating of technical data and information for the 3 Rio Conventions <b>Baseline:</b> Limited data and information relevant to the Rio Conventions exists <b>Target:</b> Collating and initial analysis on technical data and information requirements relating to reporting and monitoring on the 3 Rio convention	Activity 2.1: Establish and convene the EMIS Technical Working Group to review and establish key data and information required for CBD reporting					CEPA, UNDP	62000	GEF	72100	Contracted Services: Institution or Firm	78,000
						CEPA, UNDP	62000	GEF	71200	International consultant	57,300
						CEPA, UNDP	62000	GEF	71300	Local consultant	64,000
	Activity 2.2: Review at the identified best practice for collecting technical data and information including its relevant legislation to reach a consensus of localizing practice					CEPA, UNDP	62000	GEF	75700	Meeting costs	6,000

EXPECTED OUTPUTS And baselines, indicators including annual targets	PLANNED ACTIVITIES List activity results and associated actions	TIMEFRAMES				RESPON PARTY	PLANNED BUDGET				
		Q1	Q2	Q3	Q4		Fund ID	Donor Name	Account Code	Budget Description	Amount (in USD)
	Activity 2.3: Training courses among core group of users and/or members of the Technical Working Group 2.4 Drafting and peer review of the administrative order to expand EIA methodology that integrates the new best practice methodology										
<b>Activity Result 3. Project Management</b>											
	Activity 3.1 Support day to day operation and implementation of project activities					CEPA, UNDP	62000	GEF	71300	Local consultant	16,876
						CEPA, UNDP	62000	GEF	71600	Travel	2,000
						CEPA, UNDP	62000	GEF		Premises	19,206
						CEPA, UNDP	62000	GEF	73100	UNDP Cost recovery charges	7,750
									<b>Total</b>	<b>369,207</b>	

#### SECTION 4. Financial Status (in US\$)

Fiscal Year	Fund	Donor	Responsible Party	Total Budget	Expenditure to date	Running Balance	
2015	62000	GEF	UNDP	500,000	47,700	452,300	
	04000	UNDP	UNDP		22,676		
2016	62000	GEF	UNDP		83,093	369,207	
2017	62000	GEF	UNDP		75,000	294,207	
Total GEF resource						205,793	41%