


The World Bank

Capturing Coral Reef Ecosystem Services (CCRES) (P123933)

Implementation Status & Results Report

Capturing Coral Reef Ecosystem Services (CCRES) (P123933)

EAST ASIA AND PACIFIC | East Asia and Pacific | Environment & Natural Resources Global Practice |
Global Environment Project | Investment Project Financing | FY 2014 | Seq No: 6 | ARCHIVED on 19-Jun-2018 | ISR30796 |

Implementing Agencies: The University of Queensland, Research Partnership Office

Key Dates

Key Project Dates

Bank Approval Date:30-Sep-2013

Effectiveness Date:06-Nov-2013

Planned Mid Term Review Date:03-Oct-2016

Actual Mid-Term Review Date:03-Oct-2016

Original Closing Date:31-Dec-2018

Revised Closing Date:31-Dec-2018

Global Development Objectives

Global Environmental Objective (from Project Appraisal Document)

The Project Development Objective is to design and support the uptake of innovative models for valuing mangrove, seagrass and coralreef ecosystem services with the potential to enhance the sustainability of marine-based enterprise and marine spatial planning in select coastal communities in Indonesia and the Philippines.

Has the Global Environmental Objective been changed since Board Approval of the Project Objective?

No

Components

Name

Quantifying the value and market potential of coral reef and mangrove ecosystem services:(Cost \$2.40 M)

Forging community-led innovation in capturing and sustaining benefits from marine ecosystem services and enhancing resilience in the face of climate change:(Cost \$2.30 M)

Promoting behavioral change through outreach, decision support and regional learning from results at field sites:(Cost \$1.40 M)

Project coordination and management:(Cost \$0.40 M)

Overall Ratings

Name	Previous Rating	Current Rating
Progress towards achievement of PDO	● Satisfactory	● Satisfactory
Overall Implementation Progress (IP)	● Satisfactory	● Moderately Satisfactory
Overall Risk Rating	● Low	● Low



Implementation Status and Key Decisions

The project has delivered a number of key tools and models for valuing mangrove, seagrass meadow and coral reef ecosystem services that can, in turn, be applied to the planning processes and business development activities that will help to enhance ecosystem sustainability and ecosystem-based benefits.

The project is now actively engaged in the promotion of uptake and broad dissemination and knowledge sharing activities in the two focus countries as well as across East Asia and the Pacific.

As detailed in the project results indicators, numerous plans and projects have adopted and incorporated the findings of these models in the ways intended so as to improve coastal resources planning, management and sustainability. However, the project is behind schedule in terms of completion of several project tools that were due by June 2017 and with promotion of uptake by target end users in the Philippines and Indonesia. Should the project be able to rapidly accelerate progress on these two fronts by April 2018, it will be able to achieve its development objective by project closure on December 31, 2018.













Risks

Systematic Operations Risk-rating Tool

Risk Category	Rating at Approval	Previous Rating	Current Rating
Political and Governance	--	● Low	● Low
Macroeconomic	--	● Low	● Low
Sector Strategies and Policies	--	● Low	● Low
Technical Design of Project or Program	--	● Low	● Low
Institutional Capacity for Implementation and Sustainability	--	● Low	● Low
Fiduciary	--	● Low	● Low
Environment and Social	--	● Low	● Low
Stakeholders	--	● Low	● Low
Other	--	--	--
Overall	--	● Low	● Low

Results

Global Environmental Objective Indicators

► Innovative models developed at two or more sites by the project, demonstrating explicit links between ecosystem health, the value of ecosystem services, and their distribution among stakeholders (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	6.00	3.00	2.00
Date	30-Sep-2013	20-Oct-2016	19-Jan-2018	31-Dec-2018

Comments

The Unit of Measure is 'number of sites where models are developed'. The baseline is zero and end of project target is 2 representing Selayar and El Nido, the two original project sites in the project design.

As of January 2018, the project has developed 4 tools and piloted use of them at 3 sites (Selayar, El Nido and Palau). The 4 tools are: Marine Protected Area (MPA) toolkit which includes the MPA policy guidelines, MPA placement optimization tool, MPA size optimization tool - and the coastal protection model, food web model and reef react model.

The October 2016 unit value of 6 counted project tools piloted at the two original site, but not sites where the tools were used. And, the 6 tools reflect the counting of the tools within the MPA toolkit.

The current value of 3 reflects the correct unit of measure and showcases use of the tools at the 3 sites. The two original sites of Selayar and El Nido and a new site in Palau.



► Develop new or improve existing business models directly or indirectly linked to coastal marine zone ecosystem services in at least two sites (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	2.00	2.00
Date	30-Sep-2013	20-Oct-2016	19-Jan-2018	31-Dec-2018

Comments

The project has successfully developed the Ecosystem-Based Business Development Model and ECO-BIZ Program to foment and support establishment of new coastal ecosystem based business models.

The indicator unit of measure is 'number of sites with business models developed'. As of January 2018, both models have been developed and tested in El Nido and Selayar.

► Project developed models and knowledge products inform the design of regional and national projects, development plans or policies and community based coastal resources management plans. (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	4.00	19.00	5.00
Date	30-Sep-2013	20-Oct-2016	19-Jan-2018	31-Dec-2018

Comments

The unit of measure for this indicator is 'number of projects/plans utilizing project-developed models or tools for their design'.

As of January 2018, the project has developed tools that have been utilized by 19 projects/plans, as follows: WWF has used the CCRES MPA toolkit to inform preparation of 17 MPA plans in Indonesia, COREMAP CTI through the Ministry of Marine Affairs and Fisheries has used the CCRES tools in its marine spatial planning work and in training of officers on Indonesia's national reef vulnerability index. In addition, the Bungaiya community in Selayar has used the FishCollab Tool to codify their customary rules for fishing gear and locations into village regulations with mapped coordinates of their management areas. This action will make it easier for the Provincial government to formally recognize and support enforcement of their regulations.



► Direct project beneficiaries(Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	1,417.00	2,292.00	1,000.00
Date	30-Sep-2013	20-Oct-2016	19-Jan-2018	31-Dec-2018

Comments

To date, total direct project beneficiaries is: 2,292. The breakdown by project tool is as listed below.

MPA training: 170 beneficiaries (27% female).

SESAMME: 1,417 beneficiaries (52% female).

ECO-BIZ: 43 beneficiaries (20% female).

Ecosystem-based Business Development: 415 beneficiaries (40% female).

My Future, My Oceans: 104 beneficiaries (52% female).

FishCollab: 115 beneficiaries (16% female).

▲ Female beneficiaries(Percentage, Custom Supplement)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	52.29	53.66	30.00

► Plans or projects to reduce stress and maintain value of eco-system services(Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	4.00	18.00	5.00
Date	30-Sep-2013	20-Oct-2016	19-Jan-2018	31-Dec-2018

Comments

The unit of measure for this indicator is "number of projects/plans promoting stress reduction based on models'.

To date, the project has developed a number of tools to reduce stress and maintain ecosystem services value, including: MPA toolkit, research papers on sea grass meadows, MPA design and climate change impacts on coastal ecosystems.

As of January 2018, these tools have been used by 18 projects/plans to promote coastal ecosystem stress reduction, including: COREMAP CTI and WWF, both in collaboration with the Indonesian Ministry of Marine Affairs and Fisheries, in the development of 18 MPA plans in Indonesia, including the CCRES project site at Selayar in South Sulawesi.



Overall Comments

As of January 2018, the project has met or exceeded all of the original project GEO indicators.

Intermediate Results Indicators

► At least three models of ecosystem function and services valuation developed (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	6.00	7.00	3.00
Date	30-Sep-2013	20-Oct-2016	19-Jan-2018	31-Dec-2018

Comments

The unit of measure for this indicator is "number of models of service or function developed".

As of January 2018, the project has developed 7 "models of coastal ecosystem function or services valuation", including: coastal protection model, reef react model, food web model, and 4 of the 5 tools that comprise the MPA toolkit: MPA guidelines, MPA placement optimization, MPA size optimization and Fish Space. The educational software for marine reserve design is not counted here as a model of service or function.

► Innovative, comprehensive decision support systems for marine reserve design to optimize management objectives developed (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	2.00	3.00	2.00
Date	30-Sep-2013	20-Oct-2016	19-Jan-2018	31-Dec-2018

Comments

The unit of measure for this indicator is "number of decision support systems for marine reserve design (piloted in year 3, operational in



year 4 and applied in year 5)".

As of January 2018, the project has developed 4 systems under Component 1 (MPA policy guidelines, MPA placement optimization, MPA size optimization and Fish Space). The first three have been applied in Indonesia.

► Planning framework that incorporates models of ecosystem functions and services, including coastal defense, and decision support systems developed in response to stakeholder demand (e.g., local gov) (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	19.00	2.00
Date	30-Sep-2013	20-Oct-2016	19-Jan-2018	31-Dec-2018

Comments

The unit of measure for this indicator is "MPS framework developed (piloted year 3, extended to one site year 4, extended to two sites year 5)."

As of January 2018, the Indonesian Ministry of Marine Affairs and Fisheries requested development of the MPA toolkit and through COREMAP CTI and in collaboration with WWF has used it to inform 18 MPA plans. In addition, community stakeholders in Selayar have used the CCRES MPA toolkit (aka the MPS framework) to plan the rules of fishing gear and MPA locations assisting provincial government to formally recognize and support enforcement of their regulations.

► Develop and analyze system maps for each site detailing interactions between specific ecosystem services and social-economic sectors (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	5.00	5.00	4.00
Date	30-Sep-2013	20-Oct-2016	19-Jan-2018	31-Dec-2018

Comments

The unit of measure for this indicator is 'number of sites' where system maps are developed and analyzed. The Year 5 target is system map developed and analyzed for 4 sites.

As of January 2018, the project has developed and applied 5 system maps, as follows:

1. Food Security System Map: 36 maps applied by the El Nido Foundation.
2. Water Pollution System Map: 15 maps applied by Palawan State University.
3. Fish Catch Decline System Map: 16 by the Palawan Council for Sustainable Development.
4. Mangrove Loss System Map: 19 by the Palawan Council for Sustainable Development.



5. Reef Fisheries Decline System Map: 17 by the Bogor Agricultural University.

► Nurture new and/or existing businesses that offer products and services linked to ecosystem services in at least two sites (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	2.00
Date	30-Sep-2013	20-Oct-2016	19-Jan-2018	31-Dec-2018

Comments

The unit of measure for this indicator is 'number of sites' where new or existing businesses that offer products and services linked to ecosystem services. The Year 5 target is 2 sites.

As of January 2018, the project is finalizing preparation of two business models: Ecosystem-based Development Model and ECO-BIZ Program. Both have been piloted in Selayar and El Nido. To date, ECO-BIZ has awarded 4 business propositions for development in El Nido and 3 in Selayar. These business propositions will be supported going forward during 2018 to transition them from idea to sustainable enterprise.

By the end of the project, it is expected that the program will be successful in nurturing business propositions in both El Nido and Selayar. The delay in achieving this indicator was caused by the 2015/16 lag in commencement of the project's business development activities.

► Develop affordable decision toolkit for use by stakeholders that is applicable across all sites (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	1.00
Date	30-Sep-2013	20-Oct-2016	19-Jan-2018	31-Dec-2018

Comments

The unit of measure is "toolkit - Yes/No". The end of project target is one decision toolkit developed.

As of January 2018, the project is finalizing the systems analysis toolkit prepared under Component 2. The systems analysis toolkit is comprised of 3 systems analysis tools (SESAMME, Systems Simulation Model and SYSTORY) and 2 business development models (Ecosystem-based Development Model and ECO-BIZ Program).

These tools will be finalized by mid-2018. It will enable business and non-business professionals to better evaluate value chains, pricing, competitive dynamics, market segmentation and profitability. It will also contain tools that allow stakeholders to assess how changes to existing businesses or investments in new business concepts can better align local economic activity with long-term marine ecosystem



health and value.

► Information and knowledge products shared with the Strategic Partnership for East Asian Seas, governments, technical networks and existing projects (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	11.00	35.00	40.00
Date	30-Sep-2013	20-Oct-2016	19-Jan-2018	31-Dec-2018

Comments

The unit of measure for this indicator is 'number of information sharing and dissemination campaigns held'.

As of January 2018, CCRES has held 35 such campaigns.

► Stakeholders perceive benefits in incorporating information on ecosystems services into the decision-making process (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	15.00
Date	30-Sep-2013	20-Oct-2016	19-Jan-2018	31-Dec-2018

Comments

The unit of measure for this indicator is "percentage of key stakeholders and formal networks who perceive the benefits" of incorporating information on ecosystem services into decision-making.

This indicator has been quite challenging to measure from the beginning of the project due to lack of clarity with respect to which stakeholders to include in the baseline calculation. To resolve this gap, the project is undertaking a detailed survey to capture perceived benefits of incorporating information on ecosystem services into decision making by known project stakeholders. The survey will be delivered throughout 2018 at project training and dissemination workshops and results recorded at the end of project date line in December 2018.

Overall Comments



Data on Financial Performance

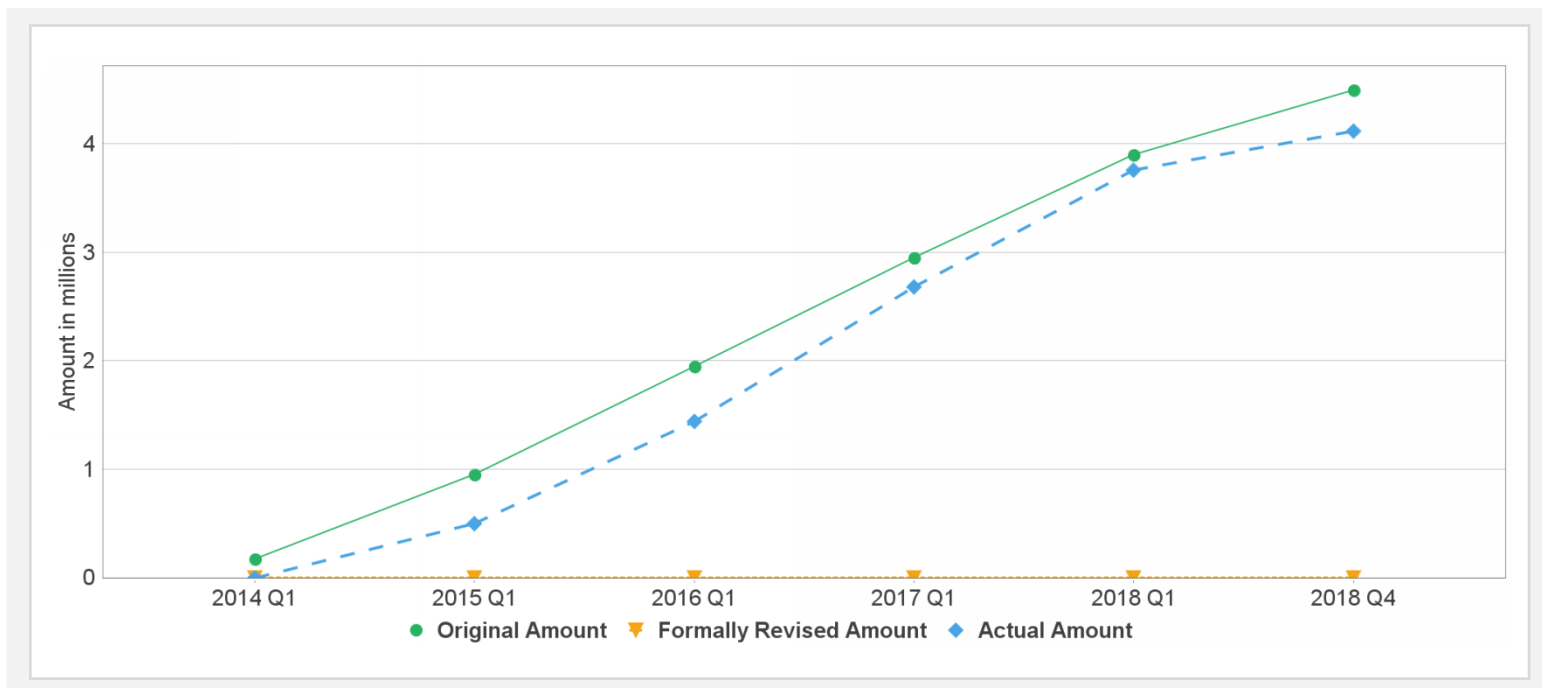
Disbursements (by loan)

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	Disbursed
P123933	TF-15409	Effective	USD	4.50	4.50	0.00	4.12	0.38	92%

Key Dates (by loan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P123933	TF-15409	Effective	06-Nov-2013	06-Nov-2013	06-Nov-2013	31-Dec-2018	31-Dec-2018

Cumulative Disbursements



Restructuring History

There has been no restructuring to date.



Related Project(s)

There are no related projects.
