



RESTRUCTURING PAPER
ON A
PROPOSED PROJECT RESTRUCTURING
OF
IMPROVING CLIMATE DATA AND INFORMATION MANAGEMENT
APPROVED ON JULY 28, 2015
TO
JAMAICA

ENVIRONMENT & NATURAL RESOURCES

LATIN AMERICA AND CARIBBEAN

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ABBREVIATIONS AND ACRONYMS

Climate Investment Funds	CIF
Improving Climate Data and Information Management Project	ICDIMP
Mid-term Review	MTR
Monitoring and Evaluation	M&E
Pilot Program for Climate Resilience	PPCR
Project Development Objective	PDO



BASIC DATA

Product Information

Project ID P129633	Financing Instrument Investment Project Financing
Original EA Category Partial Assessment (B)	Current EA Category Partial Assessment (B)
Approval Date 28-Jul-2015	Current Closing Date 30-Apr-2021

Organizations

Borrower Jamaica	Responsible Agency Planning Institute of Jamaica
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Project Development Objective (PDO)

Original PDO

The project development objective is to improve the quality and use of climate related data and information for effective planning and action at local and national levels.

Summary Status of Financing

Ln/Cr/Tf	Approval	Signing	Effectiveness	Closing	Net Commitment	Disbursed	Undisbursed
TF-A0433	28-Jul-2015	02-Oct-2015	14-Dec-2015	30-Apr-2021	6.80	1.71	5.09

Policy Waiver(s)

Does this restructuring trigger the need for any policy waiver(s)?

No



I. PROJECT STATUS AND RATIONALE FOR RESTRUCTURING

A. Project Status

1. The Improving Climate Data and Information Management Project (ICDIMP) is a five-year project funded by the Climate Investment Funds (CIF)/Pilot Program for Climate Resilience (PPCR) in the amount of US\$6.8 million. The project is seeking to improve the quality and use of climate related data and information for effective planning and action at local and national levels in Jamaica.
2. Three years into implementation, the ICDIMP is performing well, with approximately 50% of activities having been completed. As of April 8, 2019, 23.7% (approx. US\$ 1.61M) of the total Grant has been disbursed under the project. Though the disbursement rate is low, it is consistent with original projections due to forty percent (40%) of the grant resources being allocated to a single large procurement item, which is the replacement of the outdated weather Doppler radar and construction of the tower. This procurement is underway and expected to be finalized by end of May 2019. The project is expected to end on time in April 2021 and in a satisfactory manner, having met its PDO objectives.
3. Component 1 has made significant progress toward upgrading and/or providing new equipment, systems and training for data collection and processing. Most of the planned equipment for Meteorological Services of Jamaica have been procured and installed, with 8 automatic weather stations (out of 35 installed) already reporting in real time. Thirty-one of the water monitoring stations procured for the Water Resources Authority are also reporting in real time (14 streamflow stations and 17 rainfall stations).
4. Component 2 has made significant progress in terms of improving Jamaica's climate readiness through a number of activities that have been completed. Downscaled climate scenarios (at 25km scale) for 2030, 2050, 2080 were developed and subsequently used in preparing the State of the Jamaican Climate 2015 report. Moreover, procurement of all the equipment necessary for the development of the climate change information platform at the National Spatial Data Management Division has been completed and the IT infrastructure for the platform is being set up.
5. Component 3 has made significant progress in terms of promoting climate change awareness at the national and local levels. The Information Education and Behavior Change Campaign "Smart and Steady Get Climate Ready" was successfully launched following solid media coverage and interest from public. Several training and awareness raising activities are currently under development. While the full Knowledge, Attitude and Practice (KAP) survey is planned to be carried out at the end of the project, a simplified version will be carried out by the end of 2019 and facilitate measurement of increased public awareness of climate change compared to 2012 baseline.



B. Rationale for Restructuring

6. The ICDIMP monitoring and evaluation (M&E) system has its foundation in an approved Results Framework which is defined by three PDO indicators, eight intermediate results indicators and contributing to six PPCR core indicators. Even though M&E has seen progress throughout the project implementation, as illustrated in an improved data collection and related reporting in the semester progress reports, the definition of several baselines and targets associated with the Results Framework is incomplete. In addition, there are challenges related to the overall appropriateness of selected indicators to measure the achievement of the Project Development Objective (PDO).
7. Following the mid-term review (MTR) findings, a request for restructuring was received by the World Bank on March 27, 2019 with the objective to revise the ICDIMP's Results Framework. Against this backdrop, this Restructuring Paper proposes a Level 2 restructuring to revise the current Results Framework with a view to including measurable and appropriate PDO level and intermediate results indicators that reflect intended project outcomes and impacts.

II. DESCRIPTION OF PROPOSED CHANGES

8. Proposed revisions of the ICDIMP's Results Framework, as requested by the Government of Jamaica, are being introduced to ensure that all aspects of the PDO are supported by appropriate activities and indicators. They would also result in changing the number of PDO level indicators from three to four, while the number of intermediate results indicators would be reduced from eight to six. The table below summarizes proposed changes, as well as the rationale for introducing them.



Project Development Objective Indicators by Objectives/ Outcomes	Proposed Changes	Rationale
<i>To improve the quality of climate data and information</i>		
Increased satisfaction of the users of improved climate data and information services (Percentage)	Revised to “Targeted Technical Implementing Agencies who use improved climate data and information services (Number)”	Due to challenges with measuring the increased satisfaction of the users, this indicator is being revised to specify the users of improved climate data and information services who use improved climate data and information services produced under the project in their work.
<i>To improve the use of climate data and information</i>		
Number of people supported by the Project to cope with climate change and risks, specifically through targeted early warning messaging for vulnerable groups and other measures (Number)	Revised to “Targeted vulnerable groups having access to early warning messaging (Number)”	Due to challenges with defining and measuring the Project beneficiaries, this indicator is being replaced with previously included intermediate results indicator which focuses on targeted vulnerable groups having access to early warning messaging.
Female beneficiaries (Percentage)	N/A	N/A
<i>To improve the effective planning and action</i>		
Integration of climate data and information into a health sector plan (Yes/No)	Revised to “Instruments for climate planning and action informed by improved climate data and information (Number)”	In order to better capture the intended project outcomes, this indicator is being revised to include all instruments for climate planning and action informed by improved climate data and information.
Intermediate Results Indicators by Components	Proposed Changes	Rationale
<i>Component 1: Upgrading hydro-meteorological data collection, processing and forecasting systems</i>		
Improved quality (i.e. accuracy, lead time, and coverage) of extreme weather forecasts (Percentage)	Moved to PDO level indicators and revised to “Quality of weather forecasts (Quantitative Precipitation forecast) (Percentage)”	Given the importance of improved quality of extreme weather forecasts for measuring the Project outcome of improving the quality of climate data and information, this indicator is being moved to the PDO level level indicators and will be measured by the accuracy of 24-hour precipitation forecast and methodology used to meet the criteria.
Improved quality (i.e. data from weather stations reaching data processing center in line with WMO performance standard) of climate	Revised to “Meteorological, hydro-met and agro-met stations reporting data in real time and	This indicator is being revised in order to specify the improved quality of climate recording network and data



recording network and data collection instruments (Percentage)	meeting quality standards (Percentage)”	collections as those that report data in real time and meet quality standards.
Number of Manpower Trained under the Project (Number)	Revised to “Technical staff and other personnel trained in development, dissemination and use of weather, climate and hydrological data (Number)”	This indicator is being revised to specify and define the manpower trained under the Project.
Percentage of meteorological, hydromet and agromet equipment installed and operational (Percentage)	Revised to “Meteorological, hydromet and agromet equipment operational (Number)”	In order to better capture the Project outcomes, this indicator is being revised to the number of meteorological, hydromet and agromet equipment operational as opposed to percentage of planned equipment procured under the Project.
Doppler Radar installed and operational (Yes/No)	Revised to “Doppler Radar operational (Number)”	In order to capture the progress and stages of procurement, installation and operationalization of the radar, the unit of measurement for this indicator is being changed to number and includes a scale from 0 to 4.
Component 2 : Climate Resilient Planning and Hydro-meteorological Information Services		
Accurate and high resolution national and sectoral climate change scenarios developed (Yes/No)	Revised intermediate targets	There are no material changes to this indicator except for a revision of intermediate targets.
Improved access to early warning and alert systems for targeted vulnerable communities (Number)	Moved to PDO level indicators and revised to “Targeted vulnerable groups having access to early warning messaging”	Given the importance of this indicator for measuring the Project outcomes, it is being moved to the PDO level indicators and defined as targeted vulnerable groups having access to early warning messaging.
Component 3 : Climate Change Education, Awareness and Behavior Change		
Change in climate change knowledge, attitude and practice (KAP) (Percentage)	Defined KAP	In order to be able to measure the Project outcomes, this indicator is being revised to specify an increase in KAP as it pertains to households that are aware of and are concerned about climate change, with KAP 2012 being used as the baseline.



I. SUMMARY OF CHANGES

	Changed	Not Changed
Results Framework	✓	
Implementing Agency		✓
DDO Status		✓
Project's Development Objectives		✓
Components and Cost		✓
Loan Closing Date(s)		✓
Cancellations Proposed		✓
Reallocation between Disbursement Categories		✓
Disbursements Arrangements		✓
Disbursement Estimates		✓
Overall Risk Rating		✓
Safeguard Policies Triggered		✓
EA category		✓
Legal Covenants		✓
Institutional Arrangements		✓
Financial Management		✓
Procurement		✓
Implementation Schedule		✓
Other Change(s)		✓
Economic and Financial Analysis		✓
Technical Analysis		✓
Social Analysis		✓
Environmental Analysis		✓

IV. DETAILED CHANGE(S)



The World Bank

Improving Climate Data and Information Management (P129633)



Results framework

COUNTRY: Jamaica

Improving Climate Data and Information Management

Project Development Objectives(s)

The project development objective is to improve the quality and use of climate related data and information for effective planning and action at local and national levels.

Project Development Objective Indicators by Objectives/ Outcomes

Indicator Name	DLI	Baseline	Intermediate Targets					End Target
			1	2	3	4	5	
To improve the quality of climate data and information								
Quality of weather forecasts (Quantitative Precipitation forecast) (Percentage)		66.00	66.00	71.00	72.00	73.00		75.00
Action: This indicator is New	Rationale: <i>This indicator, previously defined as "Improved quality (i.e. accuracy, lead time, and coverage) of extreme weather forecasts," was originally included as intermediate results indicator. Given the importance of measuring the quality of weather forecasts for achievement of the PDO, it has been revised and added as a new PDO level indicator.</i>							
Targeted Technical Implementing Agencies who use improved climate data and information services (Number)		0.00	1.00	3.00	6.00	7.00		7.00
Action: This indicator has been Revised	Rationale:							



Indicator Name	DLI	Baseline	Intermediate Targets					End Target
			1	2	3	4	5	
<p><i>This indicator is intended to capture the increased use of improved climate data. Since its previous definition of "increased satisfaction of the users of improved climate data and information services" faced challenges related to measuring and reporting, it is being revised to focus on targeted TIAs who use improved climate data and information services.</i></p>								
To improve the use of climate data and information								
Targeted vulnerable groups having access to early warning messaging (Number)		0.00	0.00	0.00	6.00	6.00		6.00
<p>Action: This indicator has been Revised</p>	<p>Rationale: <i>This indicator was previously defined as "Number of people (disaggregated by gender) supported by the project to cope with climate change and risks, specifically through targeted early warning messaging for vulnerable groups and other measures." Given its broad nature and the lack of clarity on the methodology for measuring all the project beneficiaries, it is being narrowed down to focus on targeted vulnerable groups having access to early warning messaging.</i></p>							
Female beneficiaries (Percentage)		0.00	3.00	30.00	30.00	30.00	30.00	46.00
<p>Action: This indicator has been Marked for Deletion</p>								
To improve the effective planning and action								
Instruments for climate planning and action informed by improved climate data and information (Number)		0.00	0.00	0.00	1.00	2.00		4.00



Indicator Name	DLI	Baseline	Intermediate Targets					End Target
			1	2	3	4	5	
Action: This indicator has been Revised	<p>Rationale: <i>This indicator is was focused only on Integration of climate data and information into a health sector plan. Since health sector plan is only on of the instruments for climate planning and action supported by the project, the indicator has been broadened to reflect that.</i></p>							

Intermediate Results Indicators by Components

Indicator Name	DLI	Baseline	Intermediate Targets					End Target
			1	2	3	4	5	
Component 1: Upgrading hydro-meteorological data collection, processing and forecasting systems								
Improved quality (i.e. accuracy, lead time, and coverage) of extreme weather forecasts (Percentage)		66.00	0.00	71.00	72.00	73.00	74.00	75.00
Action: This indicator has been Marked for Deletion	<p>Rationale: <i>This indicator is being moved to the PDO level indicators and being revised to Improved quality (i.e. accuracy, lead time, and coverage) of extreme weather forecasts.</i></p>							
Meteorological, hydro-met and agro-met stations reporting data in real time and meeting quality standards (Percentage)		15.00	15.00	18.00	22.00	26.00		30.00
Action: This indicator has been Revised	<p>Rationale:</p>							



Indicator Name	DLI	Baseline	Intermediate Targets					End Target
			1	2	3	4	5	
<p><i>This indicator is being revised from "Improved quality (i.e. data from weather stations reaching data processing center in line with WMO performance standard) of climate recording network and data collection instruments" to "Meteorological, hydromet and agromet stations that report data in real time and meet quality standards" in order to streamline its definition.</i></p>								
Technical staff and other personnel trained in development, dissemination and use of weather, climate and hydrological data (Number)	0.00	100.00	150.00	200.00	250.00		300.00	
<p>Action: This indicator has been Revised</p>	<p>Rationale: <i>This indicator, which was previously defined as "Number of Manpower Trained under the Project (number of people)" is being revised to specify the personnel who will be trained under the project and the type of training included.</i></p>							
Meteorological, hydromet and agromet equipment operational (Number)	0.00	32.00	100.00	115.00	120.00		120.00	
<p>Action: This indicator has been Revised</p>	<p>Rationale: <i>This indicator was previously defined as "Percentage of meteorological, hydromet and agromet equipment installed and operational". In order to better capture the intended results, it is being revised to "Meteorological, hydromet and agromet equipment operational," with the unit of measure being changed from percentage to number, accordingly.</i></p>							
Doppler Radar operational (Number)	0.00	1.00	2.00	3.00	3.00		4.00	
<p>Action: This indicator has been Revised</p>	<p>Rationale: <i>This measure for this indicator previously defined as "Dopler Radar installed and operational" is being revised to be able to better capture the progress made and various stages of procurement, installation and operationalization of the radar,</i></p>							



Indicator Name	DLI	Baseline	Intermediate Targets					End Target
			1	2	3	4	5	
Component 2 : Climate Resilient Planning and Hydro-meteorological Information Services								
Accurate and high resolution national and sectoral climate change scenarios developed (Yes/No)	No	No	Yes	Yes	Yes		Yes	
<i>Action: This indicator has been Revised</i>								
Improved access to early warning and alert systems for targeted vulnerable communities (Number)	0.00						50.00	
<i>Action: This indicator has been Marked for Deletion</i>								
Component 3 : Climate Change Education, Awareness and Behavior Change								
Change in climate change knowledge, attitude and practice (KAP) (Percentage)	66.00			76.00			86.00	
<i>Action: This indicator has been Revised</i>								



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