Strengthening Hydro-Meteorological and Climate Services (P159217)

Eastern and Southern Africa | Congo, Democratic Republic of | Urban, Resilience and Land Global Practice |
Global Environment Project | Investment Project Financing | FY 2017 | Seq No: 10 | ARCHIVED on 16-Jun-2022 | ISR51084 |

Implementing Agencies: Democratic Republic of Congo, National Agency of Meteorology and Teledetection by Satellite (Mettelsat)

Key Dates

Key Project Dates

Bank Approval Date: 08-Mar-2017
Effectiveness Date: 22-Feb-2018
Planned Mid Term Review Date: 01-Sep-2020
Actual Mid-Term Review Date: 08-Sep-2020
Original Closing Date: 30-Jun-2022
Revised Closing Date: 30-Jun-2022

Project Development Objective (PDO)

Project Development Objective (from Project Appraisal Document)

The proposed Project Development Objective (PDO) is to improve the quality of the Government of the DRC's targeted hydro-meteorological and climate services.

Has the Project Development Objective been changed since Board Approval of the Project Objective?

No

Components

Name
Component A. Institutional and regulatory strengthening, capacity building and implementation support:(Cost $0.62 M)
Component B. Modernization of equipment, facilities and infrastructure for basic observation and forecasting:(Cost $5.62 M)
Component C. Improvement of hydromet information service delivery:(Cost $0.12 M)
Component D. Project Management:(Cost $1.68 M)

Overall Ratings

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

Implementation Status and Key Decisions

Project implementation has accelerated following a change to the management team in MettelSat and progress on the main contracts. The GFDRR Trust Fund was successfully closed on August 31, 2020, with a disbursement rate of 96% and the current disbursement of the GEF Trust Fund stands at 78%. It is set to close on June 30, 2022, unless extended.
Component A: The implementation of a Quality Management System (QMS) was delayed but is currently progressing well. Once implemented, it is expected to raise standards and quality control/verification procedures across the institutions in the civil aviation sector. The final steps in the QMS certification process are expected to be completed by June 30, 2022. The project is also supporting development of partnerships and standard

operating procedures for the provision of services to socio-economic sectors sensitive to meteorological, hydrological, and climatic conditions in the country. Consultants have been recruited to support to the drafting of the meteorology law and an advanced draft is available. The meteorological law is expected to provide better legal instruments to regulate the sector.
Component B: The main project activity regarding installation of hydromet equipment is advancing well. All the stations are being installed and the software to support the Early Warning System (EWS) has been successfully configured and hosted in MettelSat in Kinshasa. The installation of synoptic stations is completed in 9 of 12 airports in the country and installation of the remaining 3 stations unlikely to be completed by the project closing date. Training on use of the equipment is ongoing and will continue until project closing. Further training is likely to be required to support the sustainability of optimal use and maintenance of the equipment.
Component C: The CREWS trust fund, in partnership with WMO, is supporting the development of the National Framework for Climate Services (NFCS), and strategic action plan, which was validated in December 2020 and established by Decree on May 13, 2022. The open-source climate database (MCH) was installed on MettelSat servers to facilitate project support to entering and safeguarding of historical climate data, which has been stored on paper until now. Digitizing of data is ongoing but not likely to be fully finalized before the current project closing date of June 30, 2022.

Risks

Systematic Operations Risk-rating Tool

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

Results

PDO Indicators by Objectives / Outcomes

To improve the quality of DRC's targeted hydro-meteorological and climate services

►Implementation of a quality management system applied to the civil aviation sector (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	40.00	80.00	100.00
Date	03-Jul-2017	10-Dec-2021	20-May-2022	30-Jun-2022
Comments:	The establishment of the QMS has been delayed due to COVID-19 and MettelSat management difficulties. A concerted effort is likely to assure completion of the activity before project closing.			

►Operational observation, forecast and modelling capacities improved (composite index) (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	1.00	1.00	2.00	3.00
Date	03-Jul-2017	10-Dec-2021	20-May-2022	30-Jun-2022
Comments:	Operational observation and forecasting have significantly improved with the installation of equipment and the transmission of data in real-time in the already operational sites. The modeling capacity has also improved with the training organised for Mettelsat by the firm supplying the equpment. The indicator will be upgraded to 3 once the installation in all the sites in completed and all the sites are transmitting in real-time.			

►Implementation of a National Framework for Climate Services (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	75.00	100.00	100.00
Date	03-Jul-2017	10-Dec-2021	20-May-2022	30-Jun-2022
Comments:	The implementation of the NFCS has progressed to the point of promulgation of the NFCS by Decree on May 13, 2022. The indicator is fully achieved.			

Intermediate Results Indicators by Components

Component A. Institutional and regulatory strengthening, capacity building and implementation support

►Number of professionals having participated in trainings (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	145.00	256.00	360.00
Date	03-Jul-2017	10-Dec-2021	20-May-2022	30-Jun-2022
Comments:	The training of MettelSat has progressed. The remaining batch of training will take place after the installation of hydromet equipment is complete, targeting the existing staff and youth working in different sites as volunteers or temporary staff (new units – “nouvelles unités”).			

►Number of memorandums of understanding (MoUs) having been developed or revised, with mechanisms for monitoring (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	12.00	12.00	13.00
Date	03-Jul-2017	10-Dec-2021	20-May-2022	30-Jun-2022
Comments:	12 MoUs have been signed with users of hydromet information and are being strengthened with monitoring mechanisms. The remaining MoU with RVA is progressing. The signature is expected to take place before the project closing date.			

►Draft national law on meteorological services developed (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	5.00	60.00	100.00
Date	03-Jul-2017	10-Dec-2021	20-May-2022	30-Jun-2022

Comments:	The activity has improved significantly with the recruitment of two consultants and availabilty of a draft law currently undergoing techncial review with a view to broader consultations with all relevant stakeholders.

►Elaboration of a business plan for MettelSat (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	50.00	50.00	100.00
Date	03-Jul-2017	10-Dec-2021	20-May-2022	30-Jun-2022
Comments:	The elaboration of a business plan was stalled due to lack of management attention to the activity during a prolonged period to replace MettelSat management. A consultant funded by the CREWS trust fund is supporting the process and strong engagement by the relevant parlimentary commission indicates that disagreements between MettelSat and RVA regarding revenue sharing could be in the process of being resolved. MettelSat is recruiting a consultant to speed up the process.			

Component B. Modernization of equipment, facilities and infrastructure for basic observation and forecasting

►Number of stations feeding the central online data platform on time (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	33.00	60.00
Date	03-Jul-2017	10-Dec-2021	20-May-2022	30-Jun-2022
Comments:	The number of stations is expected to increase after the completion of the hydromet stations and the installation of remaining stations funded outside the Hydromet Project but installed with project funding.			

►Number of observations transmitted to WMO's Global Basic Observation Network (GBON) over a period of 6 months (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	14,400.00	14,400.00	23,520.00	109,440.00
Date	03-Jul-2017	10-Dec-2021	20-May-2022	30-Jun-2022
Comments:	The indicator value is expected to increase after finalization of the ongoing installation of hydromet equipment.			

►Number of buildings rehabilitated (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	3.00	3.00	3.00
Date	03-Jul-2017	10-Dec-2021	20-May-2022	30-Jun-2022
Comments:	All building rehabilitation under the project was finalized by July 2020.			

Component C. Improvement of hydromet information service delivery

►Number of consultations of the online data platform (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	5,000.00
Date	03-Jul-2017	10-Dec-2021	20-May-2022	30-Jun-2022
Comments:	The online platform is being finalized and expected to be operational before project closing.			

►Number of hazards for which warning or monitoring forecast bulletins have been produced with sufficient lead-time for preparedness and early response (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	1.00	1.00	3.00	4.00
Date	03-Jul-2017	09-Jun-2020	20-May-2022	30-Jun-2022
Comments:	Bulletins for heat, wind and precipitation are currently prepared on daily basis; the frequency can increase to three hours once the installation in all the sites is completed and all the sites are transmitting in real-time.			

►Number of user groups having expressed their needs and developed a resulting action plan to address them (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	6.00	4.00
Date	03-Jul-2017	09-Jun-2020	20-May-2022	30-Jun-2022
Comments:	Consultations were carried out with more user groups than targeted, in the context of elaboration of the National Framework for Climate Services.			

Performance-Based Conditions

Data on Financial Performance

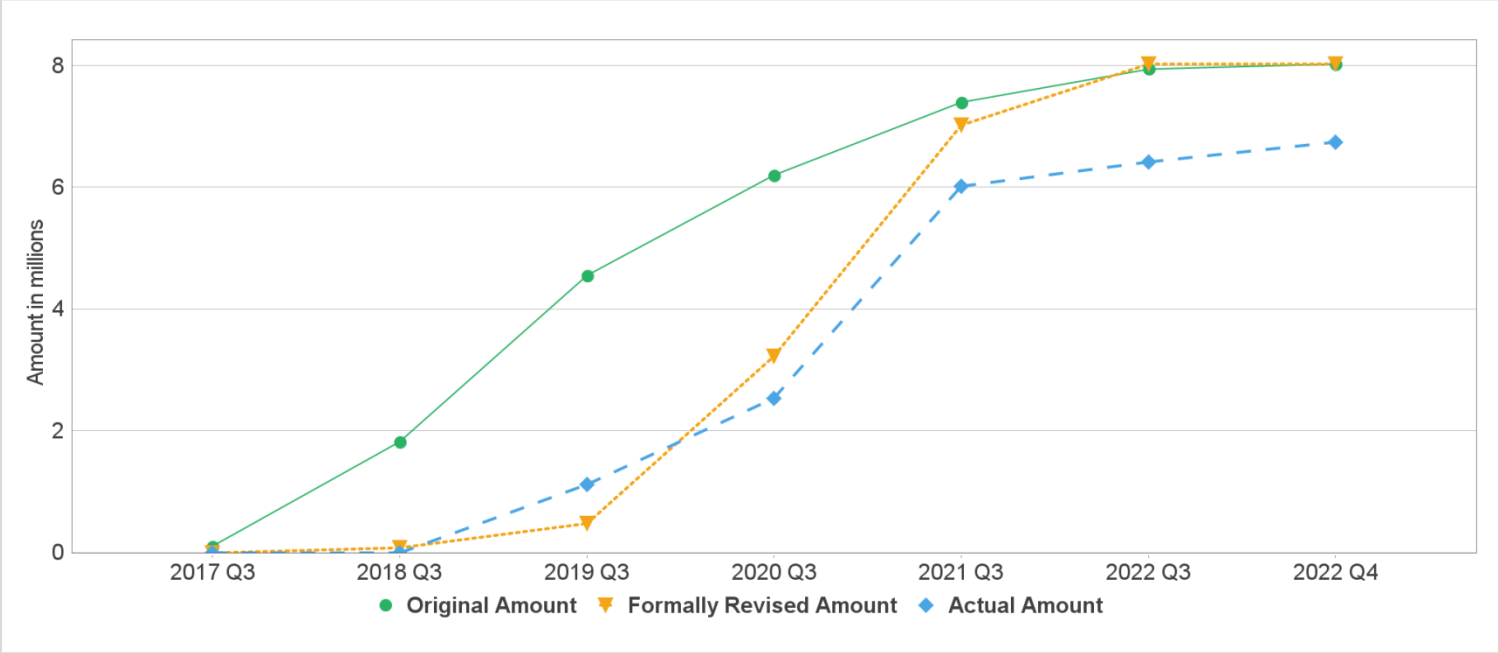
Disbursements (by loan)

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed
P159217	TF-A4389	Closed	USD	2.70	2.70	0.00	2.60	0.10	96%
P159217	TF-A4390	Effective	USD	5.33	5.33	0.00	4.14	1.19	78%

Key Dates (by loan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P159217	TF-A4389	Closed	07-Feb-2017	19-Apr-2017	22-Feb-2018	31-Dec-2019	31-Aug-2020
P159217	TF-A4390	Effective	07-Feb-2017	19-Apr-2017	22-Feb-2018	30-Jun-2022	30-Jun-2022

Cumulative Disbursements



Restructuring History

Level 2 Approved on 10-Dec-2019 ,Level 2 Approved on 29-May-2020 ,Level Approved on 25-Jun-2020 ,Level 2 Approved on 03-Jun-2021

Related Project(s)

There are no related projects.