



CREWS PROJECT PROGRESS REPORT

(July – December 2021)




1. Project title	DR Congo - Strengthening Hydro-Meteorological and Early Warning Services	2. Project reference CREWS/CProj/01/DRC
3. Implementing Partners involved in the project	World Bank (Lead) World Meteorological Organization	4. Regional/National Partners involved in the project Agence Nationale de Météorologie et de Télédétection par Satellite (Mettelsat)
5. Project Duration/Timeframe (from year – to year)	December 2017 – June 2022	6. Total Funding Approved by Steering Committee (in US dollars), including fees 3,090,000
7. Reporting focal point(s) from Implementing Partners	Christian Vang Eghoff – ceghoff@worldbank.org Bernard Gomez – begomez@wmo.int Muliro Mashauri mmashauri@worldbank.org in cc Lorenzo Carrera – lcarrera@worldbank.org - in cc Jean-Baptiste Migraine - jbmigraine@wmo.int - in cc	
8. Project overview	<p>Please include objectives, key project deliverables, leveraging, contextual information/statistics, significant events during the reporting period <u>in bullet points</u>. (max 250 words)</p> <ul style="list-style-type: none"> • The Grant development objective is to improve the quality of the Government of the DRC’s hydro-meteorological and climate services in selected sectors. • The CREWS funding seeks to improve the country’s hydromet services through: <ul style="list-style-type: none"> ○ Strengthening institutional, partnerships and regulatory frameworks and capacity building for early warning 	






	<ul style="list-style-type: none"> ○ Provision of technical assistance to Mettelsat at national level for early warning procedures and at local level for early warning systems in selected watersheds ○ Development of QMS for aviation meteorology and institutional support on cost recovery from aviation ○ Supporting Mettelsat development strategy ● The CREWS financing is implemented by the World Bank (US\$2,790,000) and WMO (US\$300,000). Subdivided into two components: <ul style="list-style-type: none"> ○ Component A: Institutional and regulatory strengthening, capacity building and implementation support (cost US\$0.95M): (i) strengthening the partnerships between MettelSat, civil protection, RVF and RVA relevant to early warning systems (severe weather, flash flooding); (ii) institutional strengthening; (iii) capacity building ○ Component B: Improvement of hydromet information service delivery (cost US\$2.14M) in line with the global framework for climate services. This component supports (i) identification of requirements by decision-makers and the population at-risk; and (ii) support the design and production of more accurate, timely and relevant warnings and information. Thus, the component strengthens the capacity of specific users for optimal use of products and services relevant to early warning systems. ● It leverages the Strengthening Hydro-Meteorological and Climate Services Project, US\$8M (US\$5.3 GEF, US\$2.7M GFDRR).
<p>9. Progress summary</p>	<p>What has been achieved <u>during this reporting period?</u> – Please list <u>in bullet points</u> the most significant and tangible outcomes? (Highlight at least 1 key achievement that can be elaborated in the 2021 Annual Report). (max 250 words)</p> <ul style="list-style-type: none"> ● The elaboration of a long-term training program for Mettelsat by EAMAC is completed, waiting to be validated. The training program is expected to fill the capacity gap in specific areas that are in line with Mettelsat mandate, subject to funding ● Ongoing data rescue and conversion from analog to digital of historic climate data, expected to be completed by May 2022. This will allow data from 57 observation stations in the country to be shared globally following the installation of WMO’s open-source climate and hydro-met database – MCH – on METTELSAT’s servers.

	<ul style="list-style-type: none"> Development of QMS for aviation meteorology is ongoing. The certification process is expected to be complete by June 2022
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10. Project Performance

Interpretation of color coding		
High		Good progress; on track in most or all aspects of delivery
Medium		Moderate progress or on track in some aspects of delivery
Low		Less than moderate or poor progress. Not on track in critical areas of its delivery. Requires remedial attention

	Rate of expenditure	Rate of delivery	Alignment of Objectives
Coding			
Narrative	Disbursement January, 2022 From WB side: is \$1,29 M (51.4% of total amount) From WMO side US\$171,129 (57% of total amount)	The rate of delivery is moderate however there is need to improve the date of delivery as the project gets closer to the closing date	The project remains fully aligned to the EWS and Climate risk objectives



11. Risk Management Status

Risk Status	<p>What is the current risk status as compared to what was identified in the project proposal?</p> <p>The current risk status of the project is relatively high, largely linked to the uncertainty of the new COVID-19 variant and the slow project implementation at 6 months to the closing date.</p>
Measures to address	<p>What mitigation measures have been developed to address the risk status?</p> <p>Closer monitoring is envisaged to ensure the delivery of activities. The World Bank, WMO and a number of international and local experts are all involved to support the delivery of activities.</p>

12. Contributions to CREWS Output(s)

(use number for activities and products and % for project component completion)

11.1 National Output(s)

CREWS Output(s) 1: National Meteorological and Hydrological Services service delivery improved, including the development of long-term service delivery strategies and development plans

State Project Output(s) in this section	Overall Project Target	Progress by July 2021	Target for reporting period	Progress by December 2021



Assessment of capacity for early warning of drought, heavy precipitation, river flooding, flash flooding, wind storm and recommendations for improvement	100%	50%	75 %	75%
Assessment of user needs (3 stakeholders/users workshops organized)	100%	50%	75%	50%
Development and/or review of memorandums of understanding (MoUs) with users	100%	100%	100%	100%
Implement a capacity development and training program for staff (including operational training for technicians and engineers, meteorologists and hydrologists)	100%	70%	80%	75%
Development of the MettelSat Strategy, Action Plan and Business Plan	100%	60%	80%	60%
<p>Additional information: briefly indicate, with concrete examples, the contributions to CREWS value propositions (gender-responsive, multiplier, people-centered, promote coherence, solution-oriented, unique), as relevant (150 – 200 words). Please list in bullet points.</p> <ul style="list-style-type: none"> • Some of the targets for this output were met. Effort have been deployed to strengthen the institutional capacity of Mettelsatt through the use of SAPHIR system (The Hydromet EWS system under deployment through leveraged funding). The SAPHIR system once operation is expected to increase access flood EWS and facilitate the dissemination warning to people in the two pilot watersheds • Several other activities are carried out with the support of international experts and learning institutions to strengthen the institutional capacity of Mettelsat. This include the development of the Mettelsat Business plan 				



CREWS Output(s) 2: Risk Information to guide early warning systems and climate and weather service developed and accessible

State Project Output(s) in this section	Overall Project Target	Progress by July 2021	Target for the reporting period	Progress by December 2021
Development of a national risk geoportal and development of hazard, exposure and vulnerability information for flood risk assessment and impact forecasting	100%	80%	100%	90%
Establishment of the National Framework for Climate Services	100%	90%	100%	90%
<p>Additional information: briefly indicate, with concrete examples, the contributions to CREWS value propositions (gender-responsive, multiplier, people-centered, promote coherence, solution-oriented, unique), as relevant (150 – 200 words). Please list in bullet points.</p> <ul style="list-style-type: none"> • There is progress in terms of the deployment of a flood EWS in two watersheds through leveraging from the Hydromet Project (P159217), that among other things is expected to provide flood forecasting and warning with sufficient lead time. • The National framework for climate services was validated in Dec 2020, and is yet to be promulgated into law. 				

CREWS Output(s) 3: Information and Communication Technology, including common alerting protocol, strengthened

State Project Output(s) in this section	Overall Project Target	Progress by July 2021	Target for the reporting period	Progress by December 2021
Development of operational procedures to convert extreme weather forecasts (rains, floods, winds, heat waves) in potential impacts	100%	20%	75%	60%
Elaboration of Quality Management Systems for air navigation meteorological services and the recovery of meteorological services rendered to RVA	100%	30%	75%	75%



Additional information: briefly indicate, with concrete examples, the contributions to CREWS value propositions (gender-responsive, multiplier, people-centered, promote coherence, solution-oriented, unique), as relevant (150 – 200 words). Please list in bullet points.

- Progress was achieved during this reporting period in relation to the above two activities.
- The QMS process advanced from step 7 to step 12 according to the certification roadmap prepared. Once finalized th QMS is expected will enhance the ability of Mettelsat to deliver quality services and be able to meet the end-user requirement and/or expectations
- However, the QMS will require significant expenses, including the training of personnel and infrastructure maintenance. Currently, all these expenses are covered by the Hydromet Project, whereas this should be entirely financed from the cost-recovery from airlines

CREWS Output(s) 4: Preparedness and response plans with operational procedures that outline early warning dissemination processes developed and accessible

State Project Output(s) in this section	Overall Project Target	Progress by July 2021	Target for the reporting period	Progress by December 2021
Risk mapping and emergency response plans for municipalities including training of operational and decision-making civil servants	100%	20%	50%	20%

Additional information: briefly indicate, with concrete examples, the contributions to CREWS value propositions (gender-responsive, multiplier, people-centered, promote coherence, solution-oriented, unique), as relevant (150 – 200 words). Please list in bullet points.

- No progress was achieved during this reporting period in terms of preparedness and response plans. However, the project is currently working on the deployment of a flood early warning system in two selected watersheds.
- Emergency response plans and trainings will be given the needed priority once the system become operational by March 2022.



CREWS Output(s) 5: Knowledge products and awareness programmes on early warnings developed

State Project Output(s) in this section	Overall Project Target	Progress by July 2021	Target for the reporting period	Progress by December 2021
Community focus groups for flood risk mapping and awareness	100%	30%	50%	30%
Study tour for the 4 institutions contributing to early warning (MettelSat, DPC, RVF, CVM)	100%	0%	0%	0%
<p>Additional information: briefly indicate the contributions, with concrete examples, to CREWS value propositions (gender-responsive, multiplier, people-centered, promote coherence, solution-oriented, unique), as relevant (150 – 200 words). Please list bullet points.</p> <ul style="list-style-type: none"> No achievement under this output. The study tour activity is not feasible and has been dropped 				

CREWS Output(s) 6: Gender-sensitive training, capacity building programmes provided

State Project Output(s) in this section	Overall Project Target	Progress by July 2021	Target for the reporting period	Progress by December 2021
Women participation in training and decision-making venues sponsored by CREWS	30%	10%	30%	10%
<p>Additional information: briefly indicate, with concrete examples, the contributions to CREWS value propositions (gender-responsive, multiplier, people-centered, promote coherence, solution-oriented, unique), as relevant (150 – 200 words). Please list in bullet points.</p> <ul style="list-style-type: none"> No achievement under this output for the reporting period 				



11.2 Regional Output(s) (for Regional Projects)

CREWS Regional Output(s): Institutional and human capacities at Regional WMO and Intergovernmental organizations to provide regional climate and weather services to LDCs and SIDS increased				
State Project Output(s) in this section	Overall Project Target	Progress by July 2021	Target for the reporting period	Progress by December 2021
Data sharing with the WMO's global data sharing system through the Moroccan Meteorological Service	100%	30%	50%	60%
<p>Additional information: briefly indicate, with concrete examples, the contributions to CREWS value propositions (gender-responsive, multiplier, people-centered, promote coherence, solution-oriented, unique), as relevant (150 – 200 words). Please list in bullet points.</p> <ul style="list-style-type: none"> • There is significant progress under this output as Mettsat has received the transmission channels from WMO and is in the configuration process of the stations acquired through leveraged funding to transmit data to WMO's global data sharing system • The configuration is expected to be finalized by March 2022. • Solving this problem would allow global numerical weather prediction models to provide calibrated and corrected products in DRC and in neighboring countries. Thus, the WMO's global data sharing system will allow the country to benefit from various partners initiatives in relation to weather forecasting and modeling capabilities (Promote coherence CREWS value proposition) 				

13. Certification on Use of Resources

This is for authorized representatives from the Implementing Partners to certify that the resources allocated are used for their intended purpose. Please fill one table per Implementing Partner.

Has there been any cases of non-compliance with the financial rules, regulations and procedures of your institution? If yes, please fill below			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Issue	Response Measures Taken	Date of Response	Active/Closed
		Click or tap to enter a date.	Choose an item.



		Click or tap to enter a date.	Choose an item.
		Click or tap to enter a date.	Choose an item.
Institution	Choose an item.		
Firstname, LASTNAME of authorized representative			
Position Title			
Date and Signature:			

Has there been any cases of non-compliance with the financial rules, regulations and procedures of your institution? If yes, please fill below			<input type="checkbox"/> Yes <input type="checkbox"/> No
Issue	Response Measures Taken	Date of Response	Active/Closed
		Click or tap to enter a date.	Choose an item.
		Click or tap to enter a date.	Choose an item.
		Click or tap to enter a date.	Choose an item.
Institution	Choose an item.		
Firstname, LASTNAME of authorized representative			
Position Title			
Date and Signature:			

Has there been any cases of non-compliance with the financial rules, regulations and procedures of your institution? If yes, please fill below			<input type="checkbox"/> Yes <input type="checkbox"/> No
Issue	Response Measures Taken	Date of Response	Active/Closed
		Click or tap to enter a date.	Choose an item.
		Click or tap to enter a date.	Choose an item.
		Click or tap to enter a date.	Choose an item.
Institution	Choose an item.		



Firstname, LASTNAME of authorized representative	
Position Title	
Date and Signature:	

14. Visibility products

- a. *Insert or copy any links to press releases, videos or communication items and/or social media links produced during the reporting period only*

15. Supporting documents

- a. *List and annex to the report any documents providing details on project activities conducted during the reporting period such as reports of training sessions, assessment reports, online solutions and tools, manuals, summaries of high-level discussions etc.*

16. Project History

- a. *Highlight key achievements since project started in bullet points, include all visibility and supporting documents other than those from the last 12 months*

- *Launched the process of the drafting of the meteorological law.*
- *A long-term training program for Mettelsat has been developed, to be validated shortly.*
- *Leveraging and informing the technical design of the WB DRC Strengthening Hydro-meteorological and Climate Services Project (P159217).*
- *The elaboration of Quality Management Systems for air navigation is nearing completion.*
- *The conversion of analog data to digital (data rescue and digitization) is ongoing.*