

(July – December 2021)

1.	Project title	Afghanistan - AF-ECLIM: Enhancing hydromet,	2. Project reference
		early warning and climate Services for Resilience	P168141 (AF-ECLIM)
3.	Implementing	World Bank	4. Regional/National Partners involved in the
	Partners involved in	World Meteorological Organization (WMO)	project
	the project		Under revision (no direct engagement policy): AMD, NWARA (GDWR), MAIL, MRRD, SMDM, NSIA
5.	Project	September 2019 – December 2023	6. Total Funding Approved by Steering Committee
	Duration/Timeframe		(in US dollars), including fees
	(from year – to year)		3,660,000
7.	Reporting focal	Arati Belle, DRM Specialist - abelle@worldbank.org	
	point(s) from	Fatih Kaya, Project Officer – <u>fkaya@wmo.int</u>	
	Implementing		
	Partners		
8.	Project overview	Please include objectives, key project deliverables	leveraging, contextual information/statistics,
		significant events during the reporting period in bu	ıllet points. (max 250 words)
		Key deliverables:	
		 Production, translation and communication of w information; 	eather forecasts, hydrological forecasts, and impact-based
		 Delivery of services to stakeholders and end-use dissemination of warnings for public safety and 	rs for priority sectors including improvement in the economic sectors;
		 Improvement of the information, including thro 	
			se impacts of natural hazards on life, livelihoods and



- WRF model for Afghanistan domain became operational and inclusion to FFGS is completed
- Central Asia Flood EWS (inc. Afghanistan) concept note finalized. Project is launched on International Mountain Day, 11 December 2021. Implementation will be finalized by March 2023.
 - Riverine Flood forecasting and warning system together with Seasonal-to -Subseasonal component will cover Afghanistan
- Design of Landslide forecasting system for Afghanistan is completed, ToRs developed.

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 December, 2021	Activities being rebalanced towards virtual interactions, restructuring ongoing.	Fully aligned
	From WB side:		
	is \$487,678 (19.9% of total amount)		
	From WMO side: is \$351,620 (34% of total amount)		

11.Risk Management Status

Risk Status	What is the current risk status as compared to what was identified in the project proposal?						
	 The risk levels are high because of the FCV context and the added constraints due to the COVID situation 						
	although all efforts are ongoing to move ahead through virtual work situation.						
	 Operational limitations in directly engaging with Afghan Governmental Agencies. 						
Measures to	What mitigation measures have been developed to address the risk status? In bullet points						
address	 Virtual communications and meetings. "In consideration of the COVID related travel limitations and the precarious security situation in the country; 						
	 Enhance regional linkages and service delivery through international organizations and regional agencies active in the Country (e.g. FAO, RIMES, UN-OCHA, WFP); 						
	 Discussion with the WBG Country Management Unit to repurpose some of the CREWS funding towards: Monitoring the situation on the ground (through the AF-DEWS and interactions with UN agencies); Informing international partners/communities (Drought Bulletin, WMO Seasonal Forecasts and winterization Plans, attendance to country update events); Supporting new programs, particularly in the Agriculture sector: currently under discussion within the 						
	WBG.						

12.Contributions to CREWS Output(s)s

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



11.1 National Output(s)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
Hydromet Concept of operations (CONOPS)	TOR developed	Drafting of the CONOPS document initiated	None	Activity completed
Services delivery strategy	TOR developed	Drafting of the strategy document initiated	None	Activity completed for GDWR, on-hold for AMD (no direct engagement possible)
Reinforcing the legal and institutional framework	TOR developed	Drafting of the framework document and regulations initiated	None	Activity completed
Introducing QMS across operations of AMD and WRD-MEW to interact with their user communities	-	On-hold	None	On hold due to ongoing political situation.
Developing stakeholder/user surveys to tailor the services for users	Surveys completed	Preparation of surveys initiated, but not completed yet.	None	Activity on hold (no direct engagement possible)



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.

Given the existing operational constraints, activities which could be undertaken remotely – such as assessments and reports – have been revised by international stakeholders and then finalized.

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
Design of Drought Early Warning System	Design completed	Drafting of the technical brief underlining the design of the Drought Early Warning System completed	None	Activity completed
Development of Drought Early Warning System	Established and functional	Preliminary prototype for the Drought Early Warning System developed	Engagement of a regional entity to host the tool and provide support	Interaction with RIMES, UN-OCHA and Central Asian Country undertaken. Currently, RIMES and UN-OCHA seems the best options, given the limited interest demonstrated



				by Central Asian countries in
				adopting the
				tool. The
				CREWS team is
				currently
				discussing with
				the WBG CMU
				to be fully
				aligned with
				new initiatives
				being explored
				at the country
				level.
Design of Agrometeorological services	Design document	Drafting of the	On-hold	On-hold
	ready	draft document		
		completed.		
Flood Early warning designed and Flash Flood	Flood EW Design	Draft concept on		Concept note is
forecasting and alerting systems enhanced	developed; Link with	FFGS developed.		approved and
	CAR FFGS	PARFFGS system		project
	established and	new NWP		implementation
	capacity enhanced	(Numerical		is launched on
		Weather		December 11
		Prediction)		2022. HRC is
		module WRF		contracted for
		(Weather		Riverine Routing
		Research &		and Seasonal to
		Forecasting) is		Subseasonal
		operational and		forecasting and
		covering		warning
		Afghanistan		components.
				Implementation



				will be finalized
				in March 2023.
				Lanslide
				forecasting and
				warning
				components are
				designed and
				TORs are
				developed.ToRs
				developed for
				landslide and
				riverine
				forecasting
				enhancements.
				Landslide
				component will
				use WRF and
				ICON models as
				the backbone of
				the forecasting
				operation as an
				integral part of
				the PARFFGS
Afabanistan is as samusated with Degianal Climate	Commisted	Communications	Commont	system.
Afghanistan is re-connected with Regional Climate	Completed	Communications	Support attendance of AFG	AMD attended the South Asia
Services		between AMD		
		and IMD initiated	NMHS to regional initiatives	Hydromet
			initiatives	Forum 3 (held virtually in
				November 2021)



Concept note for the Amu Darya Flow Forecasting and	Completed	AMD and NWARA		Concept note is
Early Warning System		included in		finalized and
		development of		CAFEWS is
		the EWS.		launched on
		Focal points from		December 11
		both		2021 on
		organizations		International
		have been		Mountain day.
		identified for		Afghanistan is
		follow-ups		included within
				the Riverine
				Routing and
				Seasonal-to-
				Subseasonal
				forecasting
				components of
				the CAFEWS
				(Please check
				references
				below to access
				more
				information on
				the launch of
				CAFEWS)
Strengthening the use of NWP for improving forecast	Expand regional	NWP domain has	NWP efforts will	Afghanistan
accuracy	NWP to cover	been decided and	continue at the	Domain; WRF
	Afghanistan	DWD is working	regional level;	Model
		on pilot runs.	national datasets	implementation
		Development of	are secure.	is finalized.
		local datasets are	Afghanistan will	WMO will
		in progress	use the system	continue
			once ongoing	working on



model performance in 2022 in coordination with Pakistan Meteorological Depoartment and Hyrological Researc Center. DWD pilot run for ICON in the Cloud is ongoing and further efforts are planned for 2022 under the WBG Central Asia Hydromet Modernization Project, which is also covering Afghanistan Domain.

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.

Given the existing operational constraints, some activities within this output have been restructured by repurposing the focus towards UN and other international stakeholders rather than NMHS. As the situation evolves, CREWS team stands ready to support new initiatives currently under design with weather and climate cross-cutting components.

Additional and new emphasis has been placed in providing multi-hazard early warning services through regional mechanisms to a range of new stakeholders, including the UN agencies that remained engaged in the Country.



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

6				
State Project Output(s) in this section	Overall Project	Progress by July	Target for the	Progress by
	Target	2021	reporting period	December 2021
Supporting MoUs between MRRD and other agencies	MoUs signed	(expected to be	Nonce	Activity
relevant for the drought early warning system		done under the		cancelled
		ENETAWF) during		
		Sept-Dec 2020		
Developing a modern impact-based weather forecasting	Impact-based	Drafting of the	None	Completed
process	forecasting process	guidance		
	guidance	document		
	document	initiated		
Establishing a HydroMet data management system for	Data management	Draft assessment	Completion of the	The assessment
AMD, GDWR, and MAIL	system for AMD	done	ICT assessment.	of the HydroMet
	and WRD			ICT system has
	established and			been finalized,
	operating			incorporating all
				comments
				received from
				AFG CREWS
				team and
				relevant
				international
				partners (CSIRO,
				ADB and JICA).

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. Given the existing capacity constraints, the covid related travel restrictions and other incidents in the country, the activities were sequenced and now priority is given to those activities which can be done through virtual communication means or with the support of a regional agency. In particular, the impact-based forecasting document has been prepared, and the ICT assessment report has been completed.



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
Capacity assessment for hydromet and DRM agencies	Current capacity assessed and training plan developed	A framework document on Capacity Assessment and questionnaires developed specifically for GDWR and delivered.	Capacity Assessment completed	Activity completed for hydromet agencies (AMD/GDWR- NWARA); and reports being finalized. Activity for DRM Agency (ANDMA) on hold.

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.

Given the existing capacity constraints, the covid related travel restrictions and other incidents in the country, the activities were sequenced and now priority is given to those activities which can be done through virtual communication means.

In particular, Capacity Assessments of AMD and GDWR have been done and results analyzed; reports are being finalized.



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
Afghanistan Hydromet Atlas	Completed	Document completed, pending foreward ahead of publication.	Completion of the document.	The document is completed and has been shared internally and with a limited number of stakeholders (UN agencies), given the current limitations in engaging with in-country institutions
Afghanistan is a member of the South Asia Hydromet Forum and its engagement in SAHF to be strengthened	Full participating member of SAHF (member of RIMES led SAHF executive council)	Virtual meetings of the SAHF Executive Committee and Working Groups held. ToRs for 4 Working Groups (IBF, NWP, Observations, and	AMD is engaged in regional SAHF activities.	Afghanistan NMHS were officially invited and attended the South Asia Hydromet Forum 3, held virtually in November 2021.



		Capacity Building) developed and approved by the SAHF Executive Committee.		
Linkage with Central Asia and Indian Meteorological Department established	Strong linkage with CA and MOU with IMD established	Communications with IMD initiated	Consultations with CA are ongoing. Communications with IMD are ongoing and are supported by RIMES through SAHF activities	RIMES and IMD are fully engaged and chairing the SAHF (regional) activities. Communicatio ns between them and AMD continue

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.

The WBG/WMO team is exploring opportunities to restructure the engagement through international agencies (UN) and regional partners (RIMES, IMD, PMD, Central Asian MDs) to ensure that the achievements made are preserved while the situation stabilizes. Engagement through RIMES initiated, and engagement with Central Asia being explored.

CREWS Output(s) 6: Gender-sensitive train	ning, capacity building	g programmes p	rovided	
State Project Output(s) in this section	Overall Project Target	Progress by July 2021	Target for the reporting period	Progress by December 2021
Community awareness on drought early warning (technical support)	Technical assistance for training developed	Remote training with the key agencies initiated	None – activity on hold	Activity is on hold until the institutional



		in the first semester 2021. However, given the current situation in the country, the activity was put on hold.		framework for the Drought Early Warning Tool is clarified.
Capacity building for cost-effective observation network through establishing local capacities and capabilities (3D Printed Agromet Stations for research and academia)	Training completed	On hold	Activity will wait until further time	3DPAWS printers arrived to Afghanistan but due to ongoing political situation AMD couldn't get the printers, stations and other equipment from Kabul Airport Customs

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. Activities under this output are currently on-hold.

11.2 Regional Output(s)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 Progress by July** Target for the **Progress by** reporting period **Target** 2021 December 2021 N/A N/A N/A N/A N/A 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.

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 procedures of your institution	non-compliance with the financial on? If yes, please fill below	rules, regulations and	☐ Yes ☐ 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 au	thorized		
representative			



Has there been any cases of r procedures of your institution	non-compliance with the financial n? If yes, please fill below	rules, regulations and	☐ Yes ☐ No
ssue	Response Measures Taken	Date of Response	Active/Closed
	-	Click or tap to enter a date.	Choose an item.
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		Click or tap to enter a date.	Choose an item.
nstitution	Choose an item.	·	·
irstname, LASTNAME of aut epresentative	horized		
Position Title			
Date and Signature:			
Date and Signature: Has there been any cases of reprocedures of your institution	non-compliance with the financial n? If yes, please fill below	rules, regulations and	☐ Yes ☐ No
Has there been any cases of rorocedures of your institution		rules, regulations and Date of Response	☐ Yes ☐ No Active/Closed
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Has there been any cases of r	n? If yes, please fill below	Date of Response	Active/Closed
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14. Visibility products

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

Launch of CAFEWS on International Mountain Day:

- i. Link to International Mountain Day: https://public.wmo.int/en/media/news/international-mountain-day#:~":text=International%20Mountain%20Day%20is%20celebrated,is%20sustainable%20tourism%20in%20mountains.
- ii. Link to CAFEWS: https://www.worldbank.org/en/news/infographic/2021/12/10/cafews

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.
 Annexed
 - 7) ICT Assessment Report and roadmap finalized
 - 8) Policy Note Policy Note: Advancing the Road Map for Afghan-Tajik cooperation in Hydromet data exchange
 - 9)Afghanistan Hydromet Atlas
 - 10) Sample drought bulletin in English and dari

16. Project History

- a. Highlight key achievements since project started <u>in bullet points, include all visibility and supporting documents other than those</u> <u>from the last 12 months</u>
 - Concept of Operations (CONOPS) developed
 - Modern Impact-Based Weather Forecasting guidance document prepared
 - •HydrometService Delivery Strategy framework document prepared
 - Rapid Assessment of DRM Capacities completed
 - Afghanistan Drought Early Warning Decision Support Tool (AF-DEWS) prototype developed
 - •Central Asia and Afghanistan Flood Early Warning System (CAFEWS) concept note developed
 - •ICON in the Cloud started



- Capacities of HydrometServices: Dynamic Water Resources Assessment Tool (DWAT) utilized
- •Cooperation and Twinning with TSMS
- •ICT Assessment report developed
- •Policy Note: Advancing the Road Map for Afghan-Tajik cooperation in Hydromet data exchange
- •Afghanistan Hydromet Atlas
- •CAFEWS Launched (11 December 2021)