



## CREWS PROJECT PROGRESS REPORT



(July – December 2020)

1. Project title	Afghanistan - AF-ECLIM: Enhancing hydromet, early warning and climate Services for Resilience	2. Project reference P168141 (AF-ECLIM) CREWS/CProj/10/Afghanistan
3. Implementing Partners involved in the project	World Bank (Lead) World Meteorological Organization	4. Regional/National Partners involved in the project AMD, NWARA (WRD), MAIL, MRRD, SMDM, NSIA
5. Project Duration/Timeframe	September 2019 – December 2023	
6. Reporting focal point(s)	Arati Belle, Senior DRM Specialist, World Bank ( <a href="mailto:abelle@worldbank.org">abelle@worldbank.org</a> ); Masatsugu Takamatsu DRM Specialist, World Bank ( <a href="mailto:mtakamatsu@worldbank.org">mtakamatsu@worldbank.org</a> ) Fatih Kaya, Project Officer, WMO ( <a href="mailto:fkaya@wmo.int">fkaya@wmo.int</a> )	
7. Project overview	<p><b>Please include synergies, leveraging, key project deliverables and total funding in bullet points. (max 250 words)</b></p> <p>Project Development Objective: To strengthen the capacity of provider and user agencies for the development and delivery of weather, water and climate-related early warning services.</p> <p>The CREWS grant funding is implemented by the lead partner, World Bank (US\$2.45 million exclusive of fees) and the technical partner, WMO (US\$ 0.86 million) and has been effective as of end-September 2019.</p>	
8. Progress summary	<b>What has been achieved between (reporting period)? – Please list the most significant and tangible developments?</b>	



	<ul style="list-style-type: none"> <li>• Design and negotiation of the <b>Early Warning, HydrometServices and Community Resilience Component</b> (\$15.8 m) of the WB ENETAWF project;</li> <li>• <b>Several documents are being developed:</b> (i) the Hydromet Concept of Operations (CONOPS) for the Afghanistan Meteorological Department (AMD); (ii) the Service Delivery Strategy (SDS); (iii) the capacity assessment disaster risk management agencies and framework document on capacity assessment of hydromet agencies; (iv) the Draft Legal and institutional framework document; (v) the Guidance document for the implementation of impact-based forecasting in Afghanistan; (vi) Draft TOR for the Observation network and ICT assessment; (vi) a concept to support Afghanistan’s inclusion in Central Asia and Afghanistan to improve transboundary flood, flash flood and landslide forecasting, warning and advisory services;</li> <li>• The <b>prototype of the Afghanistan Drought Early Warning Decision Support Tool (AF-DEWS)</b> has been developed and will be rolled out through the Early Warning, Early Finance and Early Action Project;</li> <li>• <b>Community-Based Disaster Risk Management (CBDRM)</b> successfully piloted in 10 communities and will be scaled up through the Early Warning, Early Finance and Early Action Project;</li> <li>• <b>Mesoscale implementation of the ICON-in the cloud</b> (Numerical Weather Prediction Model) by DWD (German Weather Service) covering Afghanistan and Central Asia Countries in place;</li> <li>• <b>Twinning arrangement</b> between Afghanistan Meteorology Department (AMD) and Turkish State Meteorological Services (TSMS). AMD delivered on new interface Flash Flood Guidance System.</li> </ul>
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## 9. Project Performance

Interpretation of color coding		
	<b>High</b>	Good progress; on track in most or all aspects of delivery
	<b>Medium</b>	Moderate progress or on track in some aspects of delivery



	<b>Low</b>	Less than moderate or poor progress. Not on track in critical areas of its delivery. Requires remedial attention
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	Rate of expenditure	Rate of delivery	Alignment of Objectives
<b>Coding</b>			
<b>Narrative</b>	Disbursement December, 2020  From WB side: is \$174,300 (7.1% of total amount)  From WMO side: is \$97,368 (10,2% of total amount)	Activities are going on full speed with a rebalancing of virtual interactions.	Fully aligned

### 10. Risk Management Status

<b>Risk Status</b>	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 de to the COVID situation although all efforts are ongoing to move ahead through virtual work situation.
<b>Measures to address</b>	What mitigation measures have been developed to address the risk status? Virtual communications and meetings.



## 11. Contributions to CREWS Output(s)

### 11.1 National Output(s)

<b>CREWS Output(s) 1: National Meteorological and Hydrological Services service delivery improved, including the development of long-term service delivery strategies and development plans</b>				
<b>State Project Output(s) in this section</b>	<b>Overall Project Target</b>	<b>Target for reporting period</b>	<b>Progress by July 2020</b>	<b>Progress by December 2020</b>
Hydromet Concept of operations (CONOPS)	CONOPS document developed	CONOPS document drafted	Drafting of the CONOPS document initiated	Drafting of the CONOPS document completed. Draft being reviewed by AMD
Services delivery strategy	Service delivery strategy document developed	Service delivery strategy document drafted	Drafting of the strategy document initiated	Drafting of the Service delivery strategy document Completed. Virtual workshops for discussion and implementation of the Strategy planned in Jan/Feb 2021



Reinforcing the legal and institutional framework	A legal framework and regulations document developed	Drafting of the Legal framework and regulations document commenced	Drafting of the framework document and regulations initiated	Draft of the Framework document and regulations in development
Introducing QMS across operations of AMD and WRD-MEW to interact with their user communities	Quality Management Systems (QMS) introduced in AMD and WRD-MEW operational processes	Process for introducing QMS in AMD and WRD-MEW initiated	No progress	Process for introducing QMS across operations of AMD initiated through the signature of an MoU between AMD and Turkish State Meteorological Service (TSMS), and the delivery of the QMS roadmap by TSMS
Developing stakeholder/user surveys to tailor the services for users	Surveys completed	Progress expected limited to initiating the task	-	Preparation of surveys initiated
<p><b>Narrative: briefly indicate the major issues or challenges faced and mitigation steps taken to addressing them. (150 to 200 words)</b></p> <p>Given the existing capacity constraints and the covid related travel restrictions, the activities were sequenced and now priority is given to those activities which can be done through virtual communication means.</p> <p>In particular, discussions of the Service delivery strategy document with AMD and WRD delayed due to the COVID-19 situation and other incidents in the country. Virtual workshops are now planned to be conducted in Jan/Feb 2021.</p>				



**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	Target for reporting period	Progress by July 2020	Progress by December 2020
Design of Drought Early Warning System	Design completed	Base design completed; update to be developed	Drafting of the technical brief underlining the design of the Drought Early Warning System completed	Technical report on the design of the AF-DEWS being reviewed
Development of Drought Early Warning System	Established and functional	Prototype of the AF-DEWS developed	Preliminary prototype for the Drought Early Warning System developed	Prototype of the AF-DEWS (version 1.0) developed and currently being reviewed/ revised by the Government prior to handover. Further developments and updates, and operationalization



				will be rolled out through the ENETAWF project
Design of Agrometeorological services	Design document ready	ToR for the design of the Agromet Advisory Information System	Drafting of the draft document completed.	ToR for the design of the Agromet Advisory Information System drafted
Flood Early warning designed and Flash Flood forecasting and alerting systems enhanced	Flood EW Design developed; Link with CA FFGS established and capacity enhanced	Link with CA FFGS initiated and required tools in place	Draft concept on FFGS developed	AMD has been delivered with new interface of FFGS, which has enhanced its GIS applications. This upgrade allows Flash-Flood data to be combined with geographical data (e.g. roads, important places) for understanding the impact of the flash floods
Afghanistan is re-connected with Regional Climate Services	Completed	Ongoing participation of Afghanistan in regional activities	Communications between AMD and IMD initiated	Afghanistan is actively participating in SASCOF, and communications between AMD

				and IMD are ongoing
Concept note for the Amu Darya Flow Forecasting and Early Warning System	Completed	Concept note for the Amu Darya Flow Forecasting and Early Warning System developed	No progress	Concept note developed and approved to support Afghanistan's inclusion in Central Asia flood forecasting and EW, and improve transboundary flood, flash flood and landslide forecasting, warning and advisory services in the Amu Darya and Syr Darya river basins. Implementation will start in 2021
Strengthening the use of NWP for improving forecast accuracy	Expand regional NWP to cover Afghanistan  Access and use of global and regional NWP	Communications between AMD and global and regional NWP centres initiated	-	Mesoscale implementation of the ICON-in the cloud (Numerical Weather Prediction Model) by DWD (German Weather Service) covering





				Afghanistan and Central Asia Countries initiated
<p><b>Narrative: briefly indicate the major issues or challenges faced and mitigation steps taken to addressing them. (150 to 200 words)</b></p> <p>Given the existing capacity constraints and the covid related travel restrictions, the activities were sequenced and now priority is given to those activities which can be done through virtual communication means.</p>				

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

State Project Output(s) in this section	Overall Project Target	Target for reporting period	Progress by July 2020	Progress by December 2020
Supporting MoUs between MRRD and other agencies relevant for the drought early warning system	MoUs signed	- (MoUs drafted)	- (expected to be done under the ENETAWF) during Sept-Dec 2020	- (MoUs drafted, incorporating comments from legal team; activity under ENETAWF)
Developing a modern impact-based weather forecasting process	Impact-based forecasting process guidance document	Impact-based forecasting process guidance document drafted	Drafting of the guidance document initiated	IDrafting of the mpact-based forecasting process guidance document completed



Establishing a data management system for AMD and WRD, including database, data rescue (“automatic” integration of the data from manual stations), data integration, and QA/QC	Data management system for AMD and WRD established and operating	No progress	-	TOR for the assessment of the observation networks and related ICT drafted (actual establishment of the system will be under ENETAWF)
<p><b>Narrative: briefly indicate the major issues or challenges faced and mitigation steps taken to addressing them. (150 to 200 words)</b></p> <p>Given the existing capacity constraints and the covid related travel restrictions, the activities were sequenced and now priority is given to those activities which can be done through virtual communication means.</p>				

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

<b>State Project Output(s) in this section</b>	<b>Overall Project Target</b>	<b>Target for reporting period</b>	<b>Progress by July 2020</b>	<b>Progress by December 2020</b>
Capacity assessment for hydromet and DRM agencies	Current capacity assessed and training plan developed	Capacity Assessment process initiated	Preparation of detailed plan for capacity assessment and training plan initiated.	Capacity assessment of the DRM agency completed. Capacity assessment of hydromet agencies being developed



**Narrative: briefly indicate the major issues or challenges faced and mitigation steps taken to addressing them.**

Discussions for the capacity assessment of hydromet agencies delayed due to the COVID-19 situation and other incidents in the country. Virtual workshops are now planned to be conducted in Jan/Feb 2021.

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

State Project Output(s) in this section	Overall Project Target	Target for reporting period	Progress by July 2020	Progress by December 2020
Afghanistan Hydromet Atlas	Completed	Afghanistan Hydromet Atlas developed	TOR developed and firm contracted	Afghanistan Hydromet Atlas developed and being reviewed; coordinated with CAWEP
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 committee)	TOR developed and firm contracted (RIMES) to led SAHF executive committee; preliminary discussions / e-meeting with DGs of SA NMHSs (Executive Committee	Executive meeting expected by September 2020	TOR developed and firm contracted (RIMES) to led SAHF executive committee; preliminary discussions / e-meeting with DGs



		members) organized		of SA NMHSs (Executive Committee members) organized
Linkage with Central Asia and Indian Meteorological Department established	Strong linkage with CA and MOU with IMD established	Consultations with CA ongoing	Communications with IMD initiated	Consultations with CA initiated
<b>Narrative: briefly indicate the major issues or challenges faced and mitigation steps taken to addressing them. (150 to 200 words)</b>				

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

State Project Output(s) in this section	Overall Project Target	Target for reporting period	Progress by July 2020	Progress by December 2020



Supporting the development of the training needs for Drought Early Warning System	Training completed	Draft needs developed	Draft needs developed	- (Community awareness on drought early warning - technical support under ENETAWF)
Capacity building for cost-effective observation network through establishing local capacities and capabilities (3D Printed Agromet Stations for research and academia)	Training completed	Training needs assessed	No progress	3D-PAWS: low-cost observation network equipment delivery in progress; training for Observers planned in Jan-Mar 2021
<p><b>Narrative: briefly indicate the major issues or challenges faced and mitigation steps taken to addressing them. (150 to 200 words)</b></p> <p>The delivery of the 3D-PAWS: low-cost observation network equipment delayed due to the COVID-19, but expected to be in place, alongside with the training for Observers, in Jan-Mar 2021.</p> <p>Because of travel restrictions, the capacity assessment of hydromet agencies are being undertaken virtually. There is also a heavy burden on coordination as a number of partners and entities are involved in capacity building in the region/country.</p>				

### 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	Target for reporting period	Progress by July 2020	Progress by December 2020
<p><b>Narrative: briefly indicate the major issues or challenges faced and mitigation steps taken to addressing them. (150 to 200 words)</b></p>				

**12. Contributions to Value Propositions**

<b>Gender Sensitive</b>	Training addresses specific gender needs. Drought early warning is a part of the broader program -ENETAWF - where gender issues are mainstreamed.
<b>Multiplier</b>	Potentially financing in the order of 200-350 million (through two proposed IDA investments, ENETAWF and agro-water climate resilience)
<b>People-centered</b>	Focus on reducing impact of hazards on the most vulnerable and improving resilience of highly vulnerable communities.
<b>Promote Coherence</b>	Improving coordination on technical capacity support from various partners such as WMO, UKMO, CAWEP etc.
<b>Solution-oriented</b>	Activities correspond to specific conditions and provide solutions for the Afghan context.
<b>Unique</b>	Drought EW tool uses the innovative approach developed by IWMI for drought monitoring.

**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.

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

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



<b>To your knowledge, has there been any cases of non-compliance with the financial rules, regulations and procedures of your institution? If yes, please fill below</b>			<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.
<b>Institution</b>	Choose an item.		
<b>Firstname, LASTNAME of authorized representative</b>			
<b>Position Title</b>			
<b>Date and Signature:</b>			

#### 14. Visibility products

*a. Insert or copy any links to press releases, videos or communication items and/or social media links*

3DPAWS in Afghanistan: <https://spark.adobe.com/page/E5GFcvbSq3GRD/>

SASCOF April 2020: <https://public.wmo.int/en/media/news/normal-rainfall-expected-2020-southwest-monsoon-season>

South Asia Hydromet Forum: [www.worldbank.org/southasiahydrometforum](http://www.worldbank.org/southasiahydrometforum)

#### 15. Supporting documents

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

- Amu Darya Flow Forecasting and Early Warning System Concept Note (attached)
- Afghanistan Hydromet Atlas (Draft [for Review](#)): <https://zoinet.org/afghanistan-hydromet-atlas/>
- Capacity assessment of the DRM agency (report)
- AF-DEWS (Demo version): <http://af-dews.demo.iwmi.org:3000/>
- Guidance document for the implementation of impact-based forecasting in Afghanistan (attached)
- CONOPS document (attached)





- Strategy for Service Delivery document (attached)
- Framework document on capacity assessment of hydromet agencies (attached)