Template for CREWS Project Status Report

1	**Project Title**	Mali Hydrological and Meteorological Services Modernization Project
2	**Project Reference**	CREWS/CProj/02/Mali
3	**Reporting Period**	June 2018-November 2018
4	**Reporting Focal Point**	Koffi Hounkpe, Senior Disaster Risk Management Specialist, World Bank; Email: khounkpe@worldbank.org , +22890021696
5	**Project Status Overview**	Since CREWS official launch on April 30, 2018, the main activities initiated are the support to the National Meteorological Service (MALI-METEO), National Hydrological Service (DNH), Food Security Early Warning System (CSA/SAP) and Civil Protection Directorate (DGPC), the four agencies contributing to CREWS implementation, through the participating to capacity building such as workshops, support for the Mali component of the West Africa Hydrological and Meteorological Services Modernization Project (West Africa regional project); the integration of gender aspects into CREWS activities as well as in the West Africa regional project. CREWS resources are supporting capacity development for stakeholders involved in early warning (meteorology, hydrology, civil protection, food security monitoring, selected Municipal Councils, population in areas prone to flash-floods). **Some completed and/or ongoing activities during the current reporting period:** • Support to the preparation of West Africa Hydromet project, component Mali: Training of five people on project procurement strategy in Togo, September 2018; • Training and sensitization of women on early warning and disaster risk management: A National consultant (woman already recruited to support the activity), TDR for activity elaborated; • Alert information coordination and dissemination through Internet connection of General Directorate for Civil Protection (DGPC): ToR prepared, and firm recruited process ongoing; • Participation of DGPC at the European Commission (EC) and the Africa, Caribbean and Pacific (ACP) meeting in Brussels in November 2018; • Two staff from Mali-Meteo and DGPC will be participating at a training on climate relate risk and climatic and meteo forecasting in Israel in December 2018 CREWS provides support to enhance the ability to generate and communicate effective alerts and risk information related to hydro-meteorological and climate events to protect lives, livelihoods and assets. Some activities planned are as follow • Recruit a firm to provide support to the activities during the CREWS implementation;

- Monitoring and forecasting hydrometeorological events by Mali-Meteo and DNH;
- Diagnosis of Meteo and hydro measuring networks for the investment project purchasing;
- Technical specifications of the computer center and the calibration laboratory, Diagnosis of databases (integration of radar data, manual, automatic, raincell, etc);
- Training of Mali Meteo staff for risk management, numerical forecasting, database management, production and dissemination of services;
- Diagnosis of users' needs for the comprehension and the diffusion of early warning alert messages;
- Dissemination of information and alert messages to decision makers and users;
- Information and sensitization of governors, prefects, mayors, to the dissemination of alerts in the regions including Bamako

6   Project Activities Contributing to CREWS Outputs –National Projects

[For each Output of the CREWS Monitoring Framework please:
1. *Identify relevant project outputs identified in the Project Proposal as "tasks" or "components", adding detail as needed and reporting progress in their implementation. See the indicators identified in the CREWS Monitoring Framework for reference.*
2. *Indicate the estimated progress achieved to date (as a percentage) relative to the "implementing time frame" set out in the Project Proposal for this reporting period. See the Project Proposal timeframe for reference. Please maintain the percentage reported in the November 2017 report in the middle column.*

Please note that it is expected that for some outputs no activities may have been undertaken during this reporting period.
For regional projects, please also complete section 6.1 on Regional Outputs.

CREWS Output 1: Assessments of NMHSs capacities, user needs, alignment with other programs socio-economic benefits			
Project Outputs and Estimated Progress to Date	Output Start & End Date	Progress by June 2018	Progress by Nov. 2018
Assessment of capacity for early warning of drought, locust, heavy precipitation, river flooding, flash flooding, wind storm and sand storm, within National Meteorological Service (MALI-METEO), National Hydrological Service (DNH), Food Security Early Warning System (CSA/SAP) and Civil Protection Directorate (DGPC) and recommendations for improvement	Q3 2017-Q4 2019	10 %	20%
Monitoring and forecasting by the National Meteorological and Hydrological Services		10	20%
Cartography and assessment of the users' needs to adapt hydrometeorological information to		10	20%

their need and the diffusion of the messages of alerts			
Needs assessment in University of Bamako towards development of a disaster risk management curriculum with focus on early warning		*10%*	*20%*

CREWS Output 2: Access and use of hazard and risk information			
Project Outputs and Estimated Progress to Date	**Output Start & End Date**	**Progress by June 2018**	**Progress by Nov. 2018**
CREWS will support Risk and climate information embedded in alert messages (depending on location) to enhance the ability to generate and communicate effective alerts and risk information related to hydro-meteorological and climate events.	*Q1 2018-Q2 2020*	*10%*	*20%*
Communication networks to disseminate information and alerts in a timely manner and messages to decision makers and users.		*5%*	*20%*

CREWS Output 3: Improvement of NMHSs service delivery			
Project Outputs and Estimated Progress to Date	**Output Start & End Date**	**Progress by June 2017**	**Progress by June 2018**
Development of operational procedures to convert extreme weather forecasts (rains, floods, winds, heat waves) in potential impacts.	*Q1 2018-Q4 2020*	*10%*	*20%*
Diagnosis of measuring networks of Mali-Meteo and Directorate for water resources and integration of numerical forecasts		*10%*	*15%*
Technical specifications of Mali Meteo computer center and the calibration laboratory and developments of operational procedures		*10%*	*15%*
Support to the design of production tools (climatology, immediate forecast, ...),		*10%*	*15%*
Operational rainfall estimates based upon cellphone signal attenuation		*10%*	*25%*

CREWS Output 4: Development of long-term service delivery strategies and development plans for NMHS			
Project Outputs and Estimated Progress to Date	**Output Start & End Date**	**Progress by June 2018**	**Progress by Nov. 2018**
Mali adopts procedures and tools for rapid warning, which will complement existing early warning arrangements. The country is particularly working on hazards such as floods, sandstorms and bushfires. The management of these risks requires concerted action between	*Q1 2018-Q4 2020*	*20%*	*30%*

the institutions responsible for monitoring and forecasting, for coordinating the response, local authorities and citizens.			
CREWS is supporting improvement within National Meteorological Service (MALI-METEO), National Hydrological Service (DNH), Food Security Early Warning System (CSA/SAP) and Civil Protection Directorate (DGPC) for improved early warning of drought, locust, heavy precipitation, river flooding, flash flooding, wind storm and sand storm.		*20%*	*30%*

CREWS Output 5: Procurement and installation of high priority observation and information and communications technology (ICT) equipment			
Project Outputs and Estimated Progress to Date	**Output Start & End Date**	**Progress by June 2017**	**Progress by Nov. 2018**
No procurement of equipment planned	*Q1 2018-Q4 2020*		

CREWS Output 6: Preparedness for response plans with operational procedures for dissemination, readiness to act with regular simulation exercises			
Project Outputs and Estimated Progress to Date	**Output Start & End Date**	**Progress by June 2017**	**Progress by Nov. 2018**
The ministry of security and civil protection has recently recruited more than 300 staff of which more than 80% are for fire guard people for the General directorate for civil protection (DGPC). CREWS is developing training program for capacity development for better disaster preparedness and field intervention	*Q1 2018-Q4 2020*	*15%*	*25%*
Development of standard operational procedures within each of the 4 institutions and overall among the 4 institutions for warning activation and warning dissemination.		*10%*	*20%*
Emergency response plans for 5 municipalities		*10%*	*10%*

CREWS Output 7: Targeted education and public awareness programs available for warning systems and related public action			
Project Outputs and Estimated Progress to Date	**Output Start & End Date**	**Progress by June 2018**	**Progress by Nov. 2018**
Development of a training program for regional and local food security and disaster management committees.	*Q1 2018-Q4 2020*	*10%*	*20%*
Training of mayors on the integration of meteorological and climatological data and information in the development of Communal Development Plans (PDC).		*10%*	*15%*
Training of rural producers on the integration of agrometeorological data and information for decision-making in the framework of the planning of agricultural and pastoral activities		*10%*	*10%*

CREWS Output 8: Activities promoting gender equality in all aspects of early warning systems			
Project Outputs and Estimated Progress to Date	**Output Start & End Date**	**Progress by June 2018**	**Progress by Nov. 2018**
CREWS will support to develop indicators to monitor the number of people with improved Hydromet services access and in particular, number of females with improved Hydromet access, the percentage of female beneficiaries from the project or proportion of female population satisfied with improved Hydromet services, the number of women involved in Hydromet activities, the numbers/percentages of representation of women, including in leadership roles and the percentage of women in Hydromet-related employment, such as in a utility company or a selected ministry.	*Q1 2018-Q4 2020*	*10%*	*25%*
A senior local consultant (woman) was recruited to ensure gender aspects was effectively taking into account in CREWS activities as well as in the Hydromet project. Term of references are being developed to carry out training and awareness of women on the Hydromet information using in flood and food security early warning.		*10%*	*25%*

6.1 REGIONAL OUTPUTS

CREWS Regional Output A: Assessments of institutional capacities of regional centers to meet NMHSs' needs, alignment with other programs socio-economic benefits			
Project Outputs and Estimated Progress to Date	Output Start & End Date	Progress by Nov 2017	Progress by June 2018

CREWS Regional Output B: Training for regional WMO and intergovernmental organizations to provide regional climate/weather services			
Project Outputs and Estimated Progress to Date	Output Start & End Date	Progress by Nov 2017	Progress by June 2018

[For all projects]

7	**Funding Spent**	Disbursed: $275891 Committed: $85449 Total disbursed and committed: $361340
8	**Changes in Organization and Operating Procedures, Project Viability and Sustainability**	*No change*
9	**Lessons Learned**	Until now, there is lack in information sharing between the four main agencies implementing and preparing Hydromet project. The Hydromet investment project will provide suitable equipment for improving data collection and dissemination and CREWS will support in capacity development for more coordination and information sharing.
10	**Documents**	