

Implementation of an integrated meteorological and climate information and decision support system Maldives

THE PROJECT

The project aims to create an integrated system of meteorological and climate information, due to the use of a single database that can make use of the observation tools currently available to the Maldives Meteorological Service, (MMS), guaranteeing the quality of the data and their easy use.

BACK GROUND

Sea level rising and long-term changes in the intensity, distribution and paths of tropical cyclones are some of the effects of rising temperatures that make the Maldives a particularly vulnerable country to climate change. Strengthening an early warning system is crucial for the prevention of disasters, especially in a context where, due to the scarce economic and technological resources available, damages caused by extreme weather events are generally very large.

OBJECTIVE

Strengthen the weather monitoring, early warning and disaster prevention network.

PLANNED ACTIVITIES

- **Project coordination and management** - creation of a Project Management Unit, (PMU), which will coordinate and monitor the activities.
- **Automation and integration of the data provided by the various stations (AWS) in a single server and software** – tender for the purchase of the software and servers necessary for the creation of an integrated system of meteorological and climate information; integration of data available to the Maldives Meteorological Service, (MMS), from stations located throughout the area by transferring them to a single platform for data storage and analysis; creation of a "weather surveillance" interface at the service of citizens, (interactive interface that will show the weather in real time and signal possible emergency situations); expansion of the "weather monitoring" interface with additional functions for meteorologists; creation of the "climate" module for storing and querying local reports and historical data; installation and configuration of the primary server and *hot standby*; installation, configuration and testing of the system.
- **Training** – Direct training for 15 meteorologists, 10 observers and 7 technicians.
- **Informing the public** – organization of information events to raise awareness regarding the new publicly accessible platform.

SUBJECTS

Promoters:

- Italian Ministry of the Environment, land and Sea
- Ministry of Environment and Energy of the Republic of Maldives

Actuators:

Maldives Meteorological Service, (MMS)

DURATION

December 2018 – March 2020

TOTAL COST OF THE INITIATIVE

€ 903,745

Lender: MATTM

Other lenders: ---

OUTPUT

- Integrated meteorological and climate information system available to the Maldives Meteorological Service, (MMS).
- 15 meteorologists, 10 observers and 7 trained technicians; 12 organized training days.
- Informed and sensitized citizens.

PROJECT STATUS

✓ realized ✓ in progress

CONTRIBUTION TO

⇒ **NDC Maldives:** development and strengthening of the early warning system for covering the entire territory of the Maldives.

⇒ **2030 Agenda:** Goal 9 - Innovation and infrastructure; Goal 13 - Actions for climate.