Innovative Monitoring and Modeling

WMO HydroHub – the Global Hydrometry Support Facility

Water Governance

Region
Global

Partners
WMO, iMoMo consortium, BGW Management Advisory Group

Background information
Today, data on water remain scarce, fragmented and difficult to access and interpret. This hampers effective decision-making for integrated water resources management (IWRM), translating into water insecurity.

Project objective
To help expand a reliable and sustainable basis of hydro-meteorological data and information services in support of informed decision- and policy-making in water management at global, transboundary, national and local levels.

Beneficiaries
National hydromet services and local water users.

Costs
CHF 3,370,000, plus contributions from partners

Duration
05.2016-08.2020

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Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Agency for Development and Cooperation SDC

Reliable hydro-meteorological observations and forecasts are critical to implement better water resources management practices and policies. The Global Hydrometry Support Facility (WMO HydroHub) makes its wide range of expertise – from science to technology and services – available as tailored services to WMO member states to support end-users' access to hydro-meteorological data and services from various economic sectors. These connections help increase the availability of hydro-meteorological data – catalysed by innovative technologies and approaches – to foster evidence-based policy- and decision-making in water resources management.

Many countries are unable to provide accurate, timely, and coherent information and forecasts that meet user needs. This increases societal vulnerability to natural hazards and inhibits socioeconomic growth, translating into water insecurity with measurable adverse impacts on communities, their livelihoods and ecosystems.

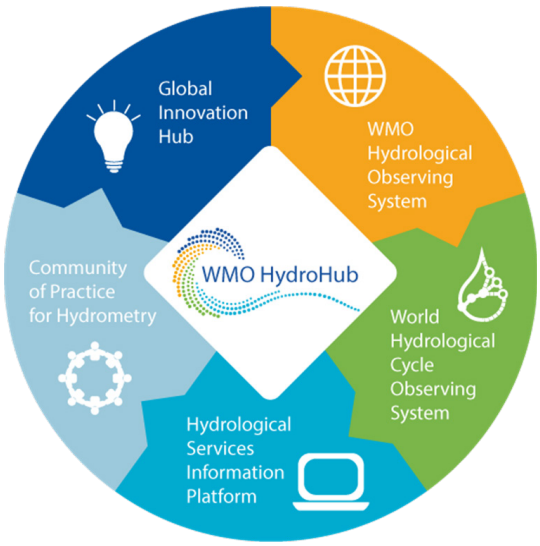
Poor data management can contribute to conflicts and inequitable access. The challenge is to provide hydrological information on a regular, sustainable and transparent basis to meet the growing need for development planning across a wide range of economic sectors, to secure life and property, and to foster water cooperation. A **data revolution** is needed to underpin the achievement of the Sustainable Development Goals (SDGs).

Suitable investments to strengthen national capacity to provide hydrological information services should be **driven and guided by the demand of users**. Recent technological advances open up **new perspectives through non-traditional, people-centered approaches**, which are at the core of the Innovative Monitoring and Modelling (iMoMo) initiative. The iMoMo initiative has been part of SDC's business incubation programme since 2012, and has contributed to significant policy advances at national and global level.

The overall goal of the project is **to help expand a reliable and sustainable basis of hydro-meteorological data and information to support informed decision- and policy-making in water management and conflict resolution at global, transboundary, national and local levels**. The establishment of the WMO HydroHub (Global Hydrometry Support Facility), as well as the upscaling of existing and new iMoMo activities aim to achieve to following objectives:

- The HydroHub enhances and sustains efficient and innovative hydrological monitoring systems around the world, and facilitates free and open data sharing;
- The HydroHub fosters the use of hydro-meteorological data for evidence-based policy and decision-making in support of Integrated Water Resources Management and Disaster Risk Reduction, especially in transboundary settings;
- The HydroHub facilitates the modernisation and improvement of operational hydrology through uptake of innovative hydrometric technologies and services by National Meteorological and Hydrological Services;
- Local beneficiaries are engaged in innovative monitoring and modelling of hydromet data through a crowd-sensed approach to enhance the coverage and availability of hydromet data in six countries at transboundary, national, sub-catchment or local community levels.

To help achieve these objectives, the **WMO HydroHub** brings together the components depicted below under one single operational structure.



Additional information:
https://hydrohub.wmo.int
www.imomohub.org