

Developing a South-East European Multi-Hazard Early Warning Advisory System

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SEE-MHEWS-A Overview

The project is led by WMO and supported by the World Bank and the European Commission. The project has 18 participating countries from the region

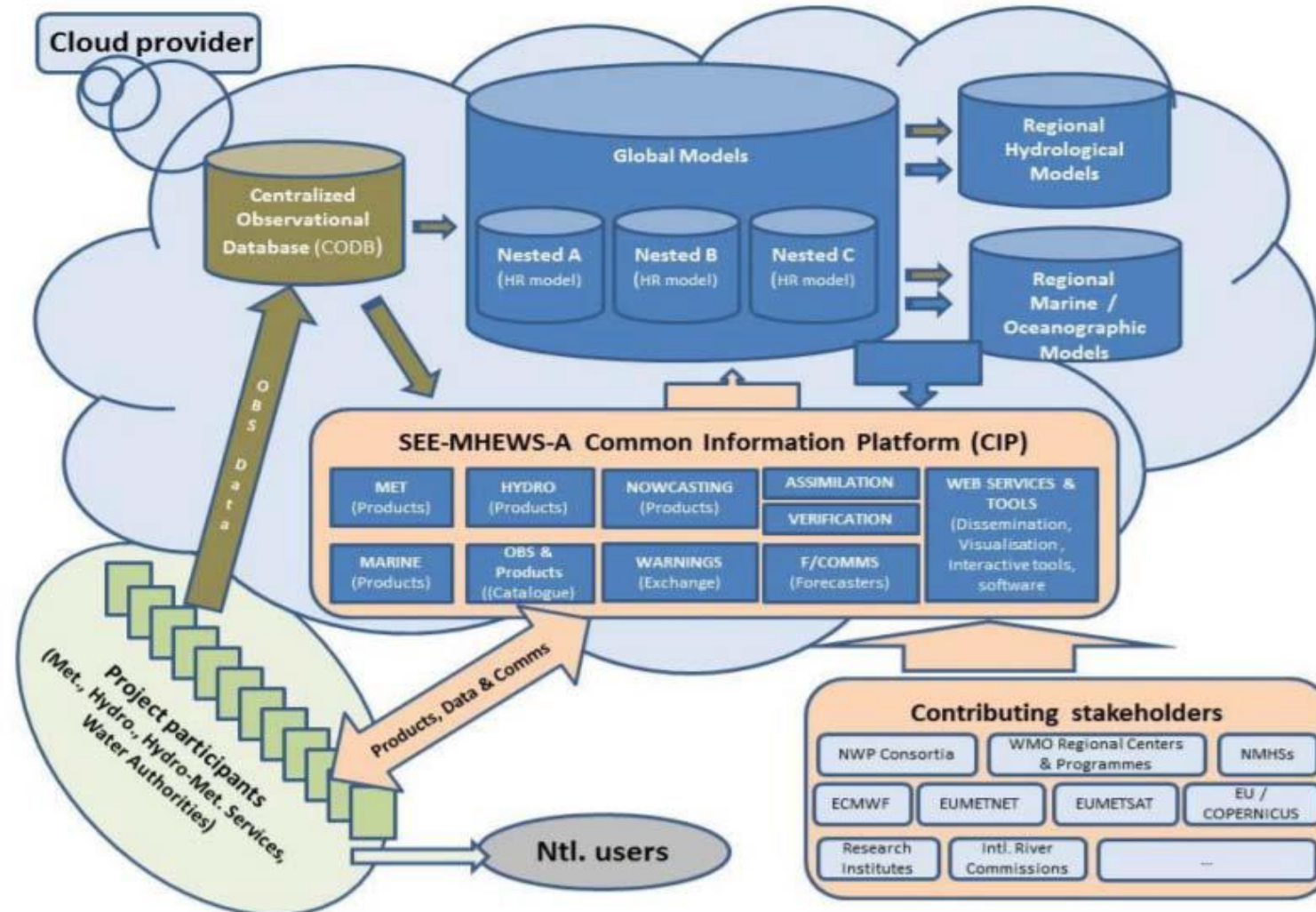
Main goal: Strengthen the existing early warning capacity in the region

A prototype of a flood early warning system using local information and multiple models to assess the flood risk in selected catchments.

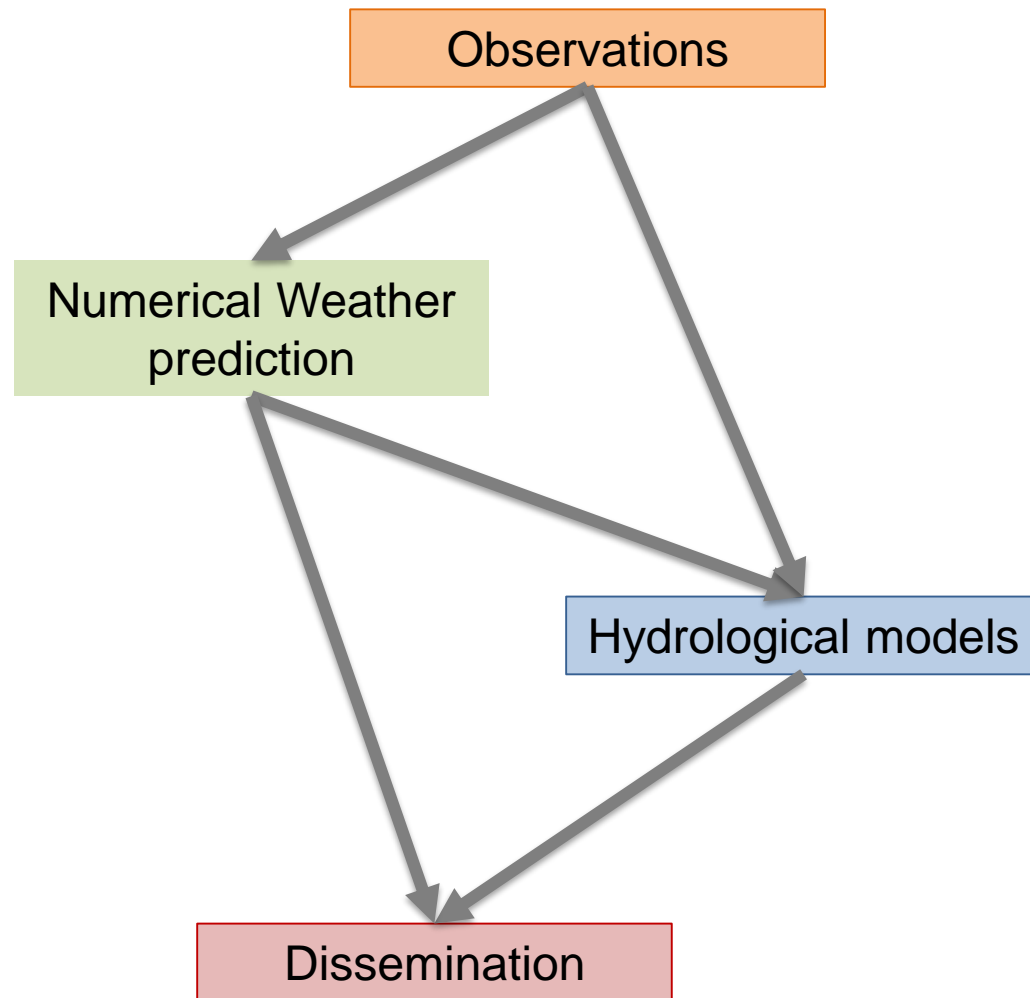
The project aims are to:

1. strengthen regional co-operation
2. strengthen national multi-hazard early warning systems
3. implement impact-based forecasts and risk-based warnings
4. harmonise forecasts and warnings in transboundary areas.

Schematic view of the SEE-MHEWS workflow



Modelling chain



Precipitation, temperature, wind, humidity

4 NWP limited area models

- COSMO
- ICON
- ALADIN
- NMM-B

2 Hydrological models

- LISFLOOD
- HBV

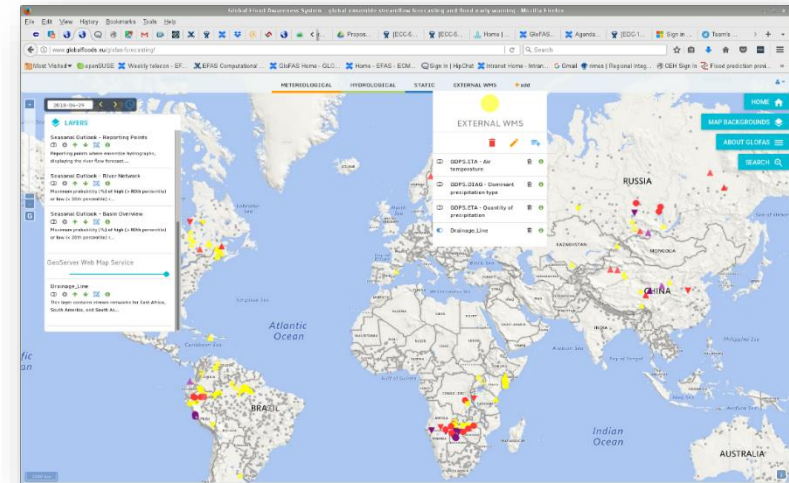
Common Information Platform (CIP)

- Receive forecast info
- Share information
- Interactive

Disseminating the data

Web Interface

- Forecast viewer for registered users
- Quick overview of hydro-meteorological outlooks
- Tailored product for pilot site
- Web services for users to import/export layers to viewer of their choice



Data Access

- Real-time forecasts, climatology, past-forecasts
- On-demand ftp service
- Possibility of storing output in MARS



Project output

The project is in its second phase – the implementation phase

The project will deliver:

- Preoperational prototype by June 2021
- Test basin in the Vrbas catchment in Bosnia and Herzegovina
- Visualise hydrometeorological forecasts on the Common Information Platform

Next phase will be working towards a fully operational system

For questions, please contact: Fredrik.Wetterhall@ecmwf.int or visit the SEE-MHEWS web site

<https://public.wmo.int/en/projects/see-mhews-a>