

## Early Warning Systems (EWS) for Floods and Droughts

Section 1: General Information	
Summary	<p>This initiative aims to strengthen capacities of the National Meteorological and Hydrological Services (NMHSs) for monitoring, forecasting and dissemination of early warning systems and improve community preparedness and resilience to water risks.</p> <p>It contributes to the pillar 2 of the Early Warnings for All Initiative initiated by UN Secretary-General in 2022, to ensure that every person on Earth is protected by early warning systems by 2027.</p>
Proponent Name(s)	World Meteorological Organization (WMO), National Hydro-meteorological Services and Global and Water Partnership (GWP)
Proponent Type	UN Agencies
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Region	Mediterranean

Section 2: Commitment	
Linkages to SDG 6	Implement Integrated Water Resources Management
Target	<p>WMO through its Technical Commissions, Research Board, Regional Associations and constituent/subsidiary bodies will:</p> <ol style="list-style-type: none"> <li>1) Contribute to the development and implementation of global/regional/national/basin scale coordinated systems for acquiring, processing, transmitting, and disseminating meteorological, climatological and hydrological observations and standards related to floods and droughts; and</li> <li>2) Support the development and implementation of user-focused spatio-temporal high-resolution modelling and forecasting tools and products based on principles of good practice and long-term sustainability.</li> </ol> <p>The forecasting and warning information will effectively contribute to reducing the consequences on societies and decrease the direct socio-economic losses from the water-related disasters. It will also help to make informed decisions on water resources management.</p> <p>The successful implementation of this initiative will provide strategic and technical expertise to the humanitarian sector, International Organizations, NGOs etc. working on water, weather and climate change adaptation sectors.</p>

Linkages to other SDG	Industry, Innovation And Infrastructure, Sustainable Cities And Communities, Climate Action, Partnerships For The Goals
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Section 3: Actions and Outcomes to Achieve Targets		
Relevant Sub-Theme	Disaster Risk Reduction and Management, Knowledge and Innovation	
Actions and Outcomes	<p>Enhancing capacity to understand hazards: Conduct gap analyses on early warning needs (national, regional) for different types of floods and droughts, and ensure timely access to, and use of satellite and surface observations (contributions and linkage with SOFF Initiative) and of advanced technologies to build up detection and forecasting capabilities.</p> <p>Accelerate the implementation of the WMO Plan for Action for Hydrology, including the establishment of global, regional, national and basin wide hydrological status and outlook systems (HydroSOS) as well as the establishment of hydrological centres of the WMO Integrated Processing and Prediction System (WIPPS).</p> <p>Development of Regional/National/Global data and products for flood (urban/flash/riverine/other types) and drought modeling and forecasting systems (including cryosphere) through, for instance, the Flash Flood Guidance System with Global Coverage (FFGS/WGC) and other existing tools and with current progress made in the world weather and world climate research programs.</p> <p>Development of global, regional and national data and information visualization platforms for flood and drought early warning system including training to stakeholders.</p>	
Implementation Period	Start Period	4/1/2023
	End Period	3/31/2028
Financial Commitment	There is no financial commitment requested for this project/initiative/collaboration.	