

## MedEWSa



MedEWSa

# Mediterranean and pan-European forecast and Early Warning System against natural hazards





Coordination: WMO, Science & Innovation



## MedEWSa: the key points

MedEWSa

- Led by WMO Science & Innovation, MedEWSa is a €5m, 3 year project, awarded competitive funding from the EU Horizon Programme
- MedEWSa will develop multi-hazard EWS to support first responder decision making around natural hazards/extreme weather events
- Focus on WMO regions VI (SE Europe) and I (NE Africa) with pilots extending from Spain to Georgia and from Sweden to Ethiopia
- MedEWSa will showcase how research and multi-stakeholder collaboration are fundamental to successful delivery of EW4All, extending meaningful operational EWS capability to new countries
- MedEWSa started in November 2023



MedEWSa

## What is the MedEWSa vision?



- Build on existing infrastructures and established tools
- Harmonize and fill gaps in existing patchy services with innovative technologies
- Deliver a network of effective and inter-operable MHEWS
- Use AI-based decision-support solutions to enhance multi-hazard impact prediction
- Concentrate on service delivery in twins (pilots) across Europe / Mediterranean / Africa to demonstrate transferability and scalability
- Focus on extreme event hotspots and at-risk communities to support the rapid deployment of first responders
- Provide actionable natural hazard and extreme weather impact and finance forecasting



- 30 partners, coordinated by WMO
- Partners include NMHSs (Greece, Egypt, Sweden, Israel (SEE-MHEWS), Slovakia, Austria, Italy), ECMWF, Red Cross, African Union, SMEs, academia, research institutions, first responders, civil protection organisations, NGOs, local & regional governments, private sector SMEs, crisis planners
- Geographical coverage across WMO regions

   I (Africa) and VI (Europe), with a focus on
   the Mediterranean (southern Europe, north
   Africa)





### MedEWSa project structure

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WP7



### Concept and coverage

Sweden

Slovakia

Greece

Eavp

Georgia

Ethiopia

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\*potential volcanic eruptions will be included across all pilots/twins due to the large-scale impact



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### Contribution to EW4all initiative



Volcanos

EW4all pillars





Extreme weather

-2:

Drought

Coastal flooding

MedEWSa pillars



## MedEWSa contribution to EW4All

MedEWSa

- Offers hazard information/risk analysis for meaningful EW that allow governments, communities and individuals to understand risks and act to minimise impacts
- Contribute to impact-based forecasting, service delivery related to natural hazards for different countries
- Develops a fully integrated impact-based multi-hazard EWS in areas of Europe/N Africa
- AI-based decision-support solutions for improved impact prediction of multiple hazard dynamics and their interdependencies
- Demonstrates how WMO research is leading efforts to extend EWS to vulnerable and underserved regions, and communities





### MedEWSa – beyond the twin sites

### MedEWSa

### **National NMHSs**

- Outside of twin pilot domains
- To inform and help drive national level scalability
- Matching regional characteristics
- Support tailoring of products to local conditions

International org representatives

- NGOs on the ground
- Trans-boundary roles
- Supra-national response chains
  - Support governance issues and advocacy

### **Private sector**

- Insurance and reinsurance
- Risk managers
- Energy generation and distribution
- Seasonal timeframes and focus, rather than short term

### **First responders**

- Key to consult
- Civil authorities
- Last mile practitioners
- Short term, immediate focus
- Source of local knowledge and conditions



### South Caucasus NMHSs and MedEWSa

OBJECTIVES

### MedEWSa

Alignment with the



**GET INVOLVED** 

- MedEWSa will develop geo-focused clusters of lighthouse stakeholders
- Reach out to target communities via NMHSs to scope scalability and replication
- Need to also focus on engagement with regulatory frameworks (EU taxonomy of climate change)



### MedEWSa: interact with us

MedEWSa

- Social media channels
  - LinkedIn <u>https://www.linkedin.com/company/medewsa</u>
  - Twitter/X <a href="https://twitter.com/medewsa">https://twitter.com/medewsa</a> project
- Please follow, interact, and amplify!
- Website coming in New Year (www.medewsa.eu)
- Contact us directly at WMO:
  - Prof. Juerg Luterbacher (jluterbacher@wmo.int)
  - Dr. Jon Cox (jcox@wmo.int)

Thank you



MedEWS

Edit profil

### MedEWSa

@medewsa\_project

MedEWSa is an EU Horizon project led by WMO to develop and deploy Early Warning Systems across the pan-Mediterranean-Europe-Africa region. 30 partners, 2023-26

③ Geneva, Switzerland	@ medewsa.eu	Joined October 2023
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Mediterranean and Pan-European Forecast and Early Warning System against Natural Hazards (MedEWSa) is a €5m Innovation action (IA) project funded by the EC Horizon programme (#101121192) MedEWSa includes 30 partners, led by WMO, and will run for 36 months from 1st November ... see more