



ARTEMis

Alert and impact-forecast standards
for Emergency Management



ARTEMis addresses the growing impact of climate-driven natural hazards by transforming emergency management across Europe. The project develops & harmonises methodologies, protocols and tools through the integration of Earth Observation data, AI-driven analytics & real-time information sharing into a unified framework. This approach enhances situational awareness, enables more effective disaster response and supports authorities, practitioners and citizens in building preparedness & resilience.

ARTEMis Objectives

- **Assess and integrate** existing emergency management systems across Europe into a coherent and interoperable framework.
- **Harmonise alert and impact forecasting systems**, enabling consistent, impact-based information delivery across borders.
- **Enhance risk awareness and capacity building** through targeted training, tools and knowledge transfer activities.
- **Validate solutions in real-world conditions** across diverse hazards, regions and operational contexts.
- **Enable wider dissemination and ecosystem building**, supporting uptake, collaboration and future exploitation of results.

Pilot Lines

ARTEMis validates its technologies through five pilot lines. Each pilot includes multiple real-world use cases, where the project analyses, re-runs data from significant past events and validates its technologies under realistic conditions.

Pilot Line 1 Droughts	Pilot Line 2 Floods	Pilot Line 3 Wildfires	Pilot Line 4 Landslides	Pilot Line 5 Earthquakes
Testing hydrological, agricultural and extreme drought scenarios across Italy, Slovenia & Catalonia to assess vulnerabilities, improve monitoring and strengthen impact-based forecasting for water resources, agriculture and energy systems.	Validating real-time and seasonal flood forecasting in Greece, Italy and the cross-border Alps-Adriatic region , focusing on urban flash floods, riverine flooding and transnational emergency coordination.	Evaluating advanced fire-risk modelling and exposure mapping in Attica to support prevention, early warning and operational response in one of Europe's most wildfire-prone Mediterranean regions.	Testing real-time geophysical monitoring, low-cost sensor networks and alert procedures for rainfall-induced landslides in the Friuli region to enhance local preparedness and cross-border applicability.	Assessing rapid damage estimation, exposure mapping and emergency workflows based on the historic 1976 Friuli earthquake to strengthen seismic readiness and improve cross-border emergency

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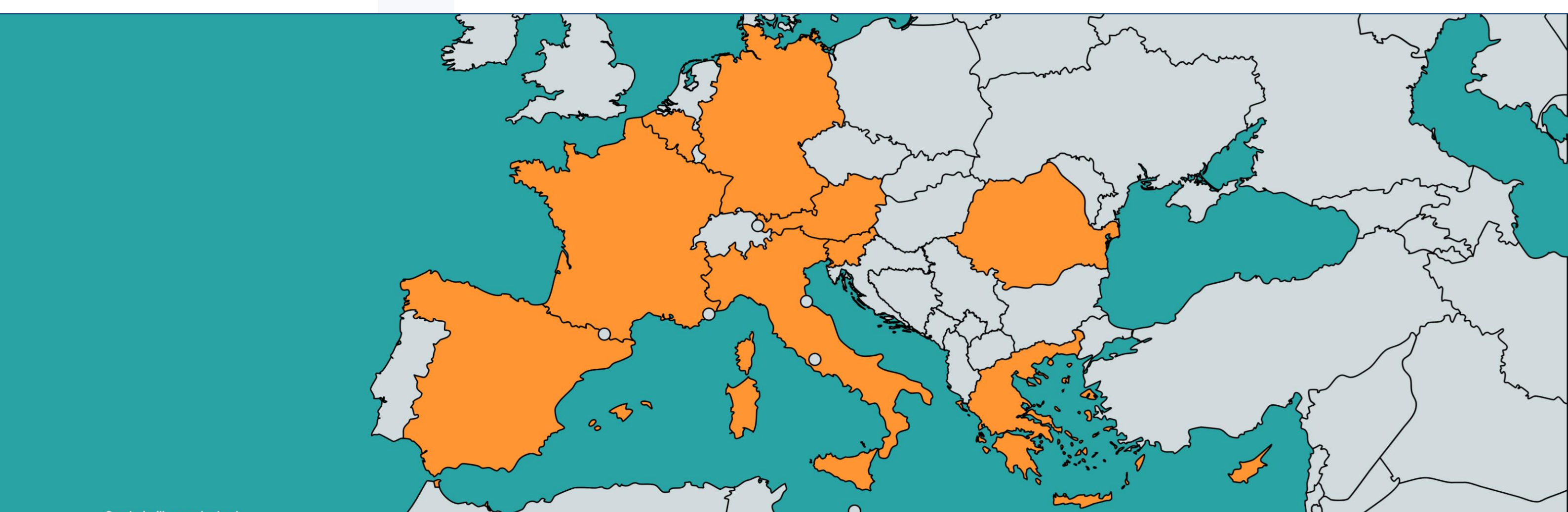
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