

ARISTOTLE IN NUMBERS



14 partners across Europe



2 international institutions



in operations since October 30, 2018



34 emergency activations



145 monitoring reports



6 inter-related hazards

ARISTOTLE-ENHSP provides a flexible and scalable **24*7 Multi-Hazard Service** for the European Commission's Emergency Response Coordination Center.



ARISTOTLE-ENHSP translates complex **scientific information** into **actionable advice** for the EU's Disaster Management professionals.



The **ARISTOTLE-ENHSP Partnership** works with professionals from across the **Disaster Management and Science portfolio** to ensure the service continues to assimilate the best that our complex and challenging arena can deliver.



ARISTOTLE-ENHSP
European Natural Hazard Scientific Partnership

**TRANSLATING
SCIENCE INTO
OPERATIONAL
MULTI-HAZARD
ADVICE**



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European Natural Hazard Scientific Partnership

Contract n. ECHO/SER/2018/783059



What is ARISTOTLE-ENHSP?

ARISTOTLE-ENHSP is an interdisciplinary Multi-Hazard Partnership that harnesses authoritative national information and expertise while building upon existing partnerships and services to:

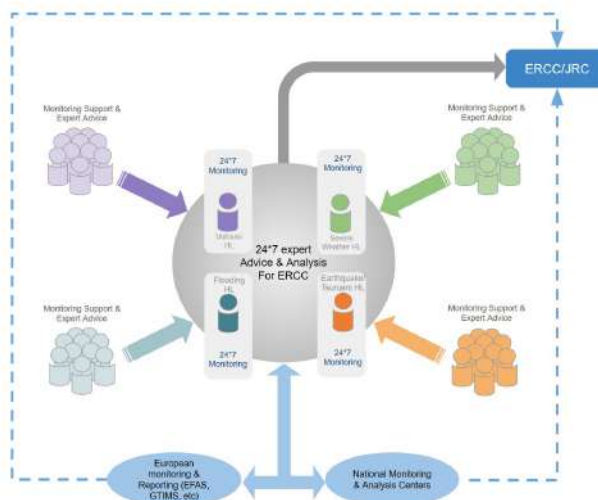
- a) provide 24/7 operational multi-hazard scientific advice into the European Response Coordination Centre (ERCC) for Earthquakes, Tsunamis, Severe Weather, Flooding*, Forest Fires* and Volcanic* emissions events worldwide and
- b) build the ENHSP developmental pillars that sustain a flexible and adaptable system and allow for introduction on new hazards into the operations (e.g. forest fires)

Development feeding into operations



*Flooding and Volcanoes for Emergency Response only for pan-European countries. Monitoring worldwide except for Forest Fires, with a Pan-European monitoring domain.

How does ARISTOTLE-ENHSP operate?



The operational 24/7 multi-hazard advisory structure with the central core (the Multi-Hazard Operational Board - MHOB), consisting on a representative for each of the hazards, and its relation with the expert groups, monitoring networks and data services.

Operational service

- **Emergency Response Service:** it follows a request from the ERCC or on an event detected by the Multi Hazard Operational Board (MHOB), in two alternative routes: 1) *Reactive* (used for unforecastable events: earthquake, tsunami and volcanoes), 2) *Proactive* (used for the severe weather, flood and, to some extent, volcano hazards, where events are forecastable).
- **Monitoring service:** continuous 3 times per week multi-hazard monitoring of events provided to the ERCC.
- **Demonstration service:** to practice and prepare implementation of the developments and improvements by the ENHSP developmental pillars.

Scientific assessment & reporting

3-hour-emergency Reports: scientific multi-hazard impact-oriented advice reports to the ERCC [proactive and reactive] within a 3-hour time-frame after activation. Updates available after 24 hours or upon request.

3-times per week Multi-Hazard monitoring Reports: a multi-hazard bulletin is prepared three times per week with the multi-hazard assessment report on the current events, their evolution and potential future events. The bulletin is supported with verbal interaction with the ERCC to enable discussion and clarifications.

The ARISTOTLE-ENHSP partnership

ARISTOTLE-ENHSP partners 14 European scientific institutions and 2 international organizations under the coordination of the National Institute of Geophysics and Volcanology (INGV), the Zentralanstalt für Meteorologie und Geodynamik (ZAMG), the UK Meteorological Office (UKMO) and Kandilli Observatory and Earthquake Research Institute (KOERI).

Background

In Europe, the ERCC, operating within DG ECHO, supports a coordinated response to disasters, both inside and outside Europe, using real-time data, resources and information from Member States and Participating States of the Union Civil Protection Mechanism (UCPM). The ARISTOTLE-ENHSP capitalises the partners and Member State' and Participating States' knowledge and expertise to provide a service to the ERCC, the UCPM and in turn its Member States and Participating States.

