

DG ECHO Support to UNESCO efforts to establish the Tsunami Early Warning and Mitigation System in the North-eastern Atlantic, the Mediterranean and connected seas (NEAMTWS).

Olimpia Imperiali,

DG ECHO, Deputy Head of Situational Awareness Sector

19 February 2021

# Legal basis at EU level recognising the need to develop a NEAMTWS

- European Council Conclusions of December 2007 (15479/07) on the development and establishment of Early Warning Systems in the EU, on the establishment of an Early Warning System for tsunamis in the North-East Atlantic and the Mediterranean region
- European Council Conclusions on Reinforcing the Union's Disaster Response Capacity towards an integrated approach to managing disasters of June 2008 (7562/08).



## For an effective TWS at least the following conditions must be met:

- the monitoring and detection system has to be rapid and reliable
- the warning and alert system has to be rapid, reliable and operational to reach the local coastal population
- a pre-established evacuation plan has to be established;
- Population and stakeholders are aware of the risk and countermeasures are part of the local coastal zone management.
- Regular exercise and training testing the system
- Education and raising awareness campaign



### DG ECHO support to UNESCO - 1

On **monitoring and detection system**, within the UCPM framework, DG ECHO has financed:

- GDACS
- The Tsunami Scenario database
- The Tsunami Analysis Tool (TAT) that has been shared with Turkey, Greece, Italy and Romania to develop their National Tsunami Centres
- The Sea Level Database
- NEARtoWARN (Prevention and Prep Projects) developing a prototype of a local tsunami system applicable in areas threatened by near-field tsunami (travel time less than 30 minutes)
- TSUNAMAP (Prevention and Prep Projects) developing Tsunami Modelling to support the impact assessment at the target coastline of the tsunamis corresponding to all the European commission earthquake scenarios considered in the earthquake model.

### DG ECHO support to UNESCO - 2

On warning and alert system including education and raising awareness, it is a primary responsibility of EU MS/PS, but to support EU MS/PS DG ECHO in the framework of the UCPM giving a clear mandate to the Commission to complement EU MS/PS capacities, has developed via the JRC:

- The Tsunami Alerting Device (TAD)
- The Sea Level Instrumentation activities
- NEAMTIC Project aimed at public awareness dissemination of good practices and developing the NEAMTIC website (direct Grant)
- Tsunami Last Mile Project Phase 1 + Phase 2
- Joint DG ECHO-UNESCO cooperation the Tsunami Last Mile Phase 3, including IDSL maintenance

#### DG ECHO support to UNESCO - 3

On training and exercise, DG ECHO has developed via the JRC:

- Exercise NEAMWAVE14 (direct grant)
- 5 Exercises to enhance emergency management system in case of tsunami (Poseidon 2008; EU Command Post (2011; Twist 2011; Westsunami 2014: Richter 2015)



#### Emergency Response Coordination Centre (ERCC) - DG ECHO Daily Map | 02/10/2020

#### EC Contribution to Tsunami Early Warning System in the NEAM region



Landslide-induced tsunami

Source: INGV

Stromboli (Italy), 2002 and 2018



\*\*This designation shall not be construed as recognition of a State of Palestine and is without prejudice to the individual positions of the Member States on this issue.

shown on this map do not imply official endorsement or acceptance by the European Union.

@ European Union, 2020. Map produced by the JRC. It may not represent the latest updated official data. The boundaries and the names

## Thank you!

