

UNESCO-IOC EU DG ECHO CoastWAVE PROJECT

Overview of CoastWAVE 2.0

Upscaling and Strengthening Resilience of Coastal Communities against tsunamis
and other coastal hazards in NEAM region



About CoastWAVE 2.0

Upscaling and Strengthening Resilience of Coastal Communities against tsunamis and other coastal hazards in NEAM region

A regional initiative to enhance tsunami preparedness in coastal communities of NEAM.

Focus on integrating early warning systems, education, and local action plans.

Project Period: July 2024 - June 2026

Donor: EU DG ECHO (Agreement btw Council and UNESCO)

Budget: 1.2 M Euros

Beneficiary Countries: Italy, Egypt, France, Portugal, Morocco, Spain, Türkiye

Aim: Reduce risk, enhance safety, and boost resilience of vulnerable coastal communities against sea-level hazards.



UNESCO team



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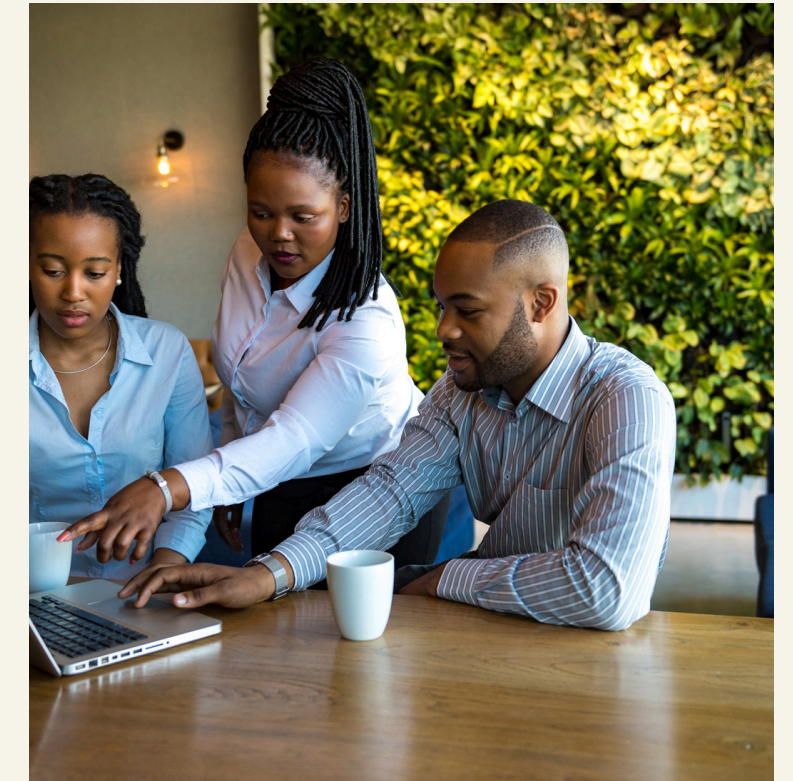
**2021
2030** United Nations Decade
of Ocean Science
for Sustainable Development



Roles and Responsibilities

UNESCO

- Coordination: Oversees project structure and aligns partner activities.
- Guidance: Provides strategic direction and advice.
- Oversight: Ensures project adherence to objectives and standards.



Project Partners: Non-profit organizations

- Sharing the responsibilities with UNESCO
- Not solely on the implementing activities- In kind contributions,
- Implementation: Transition project activities from national to local levels.
- Build capacity on TR
- Community Engagement: Foster community involvement and ensure relevance.
- Reporting & Compliance: Track progress, report outcomes, and maintain compliance with UNESCO and DG ECHO requirements.



CoastWAVE 2.0 Vision and Objectives

Vision: Empowering coastal communities with sustainable tsunami resilience measures.

Key Objectives:

- Expand the network of tsunami-ready communities.
- Enhance public awareness and preparedness.
- Strengthen tsunami early warning/alerting systems.
- Foster collaboration between governments, NGOs, and local stakeholders.



CoastWAVE 2.0-Components

Component 1

Build and strengthen tsunami hazard assessments, risk knowledge, risk communication, and decision-making capacities.

Component 2

Scale-up and expand Tsunami Ready in selected NEAM countries

Component 3

Enhance and densify early warning, detection, monitoring, and alerting systems.

Component 4

Enhance dialogues with emergency responders, decision-makers on low probability high impact tsunami events within a multi-hazard context to improve strategies and effective decision-making capabilities.

Expected Outcomes

By the end of CoastWAVE 2:

Outcome 1: Standard and improved tsunami hazard assessments based on Probability Tsunami Hazard Assessments (PTHA) for better planning and improved understanding, effective communication and better decision-making from regional, national to local level of tsunam

Outcome 2: Enhanced understanding and communication of tsunami and other sea-level-related risk in selected communities in the selected NEAM countries.

Outcome 3: More coastal communities and countries in the NEAM region joining the Tsunami Ready Programme to be better prepared to respond to sea-level-related hazards.

Outcome 4: Increased/improved access to near real-time seismic and/or sea level detection and alert technology to provide early warning of rapid onset sea level-related hazards in more coastal communities in selected NEAM countries.

Outcome 5: New affordable sea level device to provide early warning of rapid onset sea level-related hazards in NEAMTWS countries enhanced.

Outcome 6: Improved understanding and knowledge of how to address HILP tsunami events, highlighting strategies and procedures to factor and integrate tsunamis in multi-hazard approaches, and enhance real time decision making and long-term planning.

Expected Outputs

By the end of CoastWAVE 2:

Output1.1: High-resolution maps illustrating tsunami hazard zones, including areas prone to inundation and potential impact scenarios, in interactive and accessible formats for the CoastWAVE phase II selected communities.

Output 1.2 Enhanced Capacity Building and Training to the selected community of CoastWAVE-II.

Activities:

1. Organise a workshop on PTHA/DTHA for the relevant stakeholders for an effective response and coordination.
2. Implement PTHA /DTHA to assess coastal hazard risks in NEAM region.
3. Prepare evacuation maps in interactive and accessible formats (such as a website).
4. Disseminate results based on PTHA/DTHA modelling to relevant stakeholders in the NEAM region.

Partner Involvement

Cascaus and Loule, Civil Protection



Portugal



Spain

Cadiz-IHCantabria



Morocco

Larache-CNRST



Italy

Marzamemi, INGV



Türkiye

Tuzla and Kartal-AFAD



France

Nice- UMPV



Egypt

El Ras Bar- NIOF

List of Partners and Supporting Stakeholders

Member State	Implementing Partner	Supporting Stakeholder
Italy	INGV-Istituto Nazionale di Geofisica e Vulcanologia	Municipality of Pachino.Civil Protection of PochinoEmergency responders of City of Marzamemi
France	University of Montpellier	Nice Metropole CEA-CENALT
Egypt	NIOF-National Institute of Oceanography and Fisheries	Damietta Governorate.Damietta Tourism Authority. Damietta Hotels and Restaurants associations. Information and Decision Support Center (Crisis and Disaster Management Sector, and Risk Reduction). The Egyptian General Authority for the Protection of the Beaches. Urban Authority.
Spain	FIHAC-Fundación Instituto de Hidráulica Ambiental de Cantabria	Cadiz City CouncilCivil Protection of the Cadiz City Council DGPCE, IGN, IEO, DGEPC Junta Andalucía)
Türkiye	AFAD-Istanbul-The Disaster and Emergency Management Authority	KOERI Metropolitan Municipality of Istanbul Municipalities of Tuzla and Kartal The Disaster and Emergency Management Authority/Ankara
Portugal	Municipality of Loule-Civil Protection Department Municipality of Cascais-Civil Protection Department	Municipality of Loule-Civil Protection Department Municipality of Cascais-Civil Protection Department Tourism Authorities of Loule and Cascais
Morocco	CNRST-Centre National pour la Recherche Scientifique et Technique (Maroc) (CNRST)	Municipality of LaracheEmergency responders of Larache



Challenges addressed

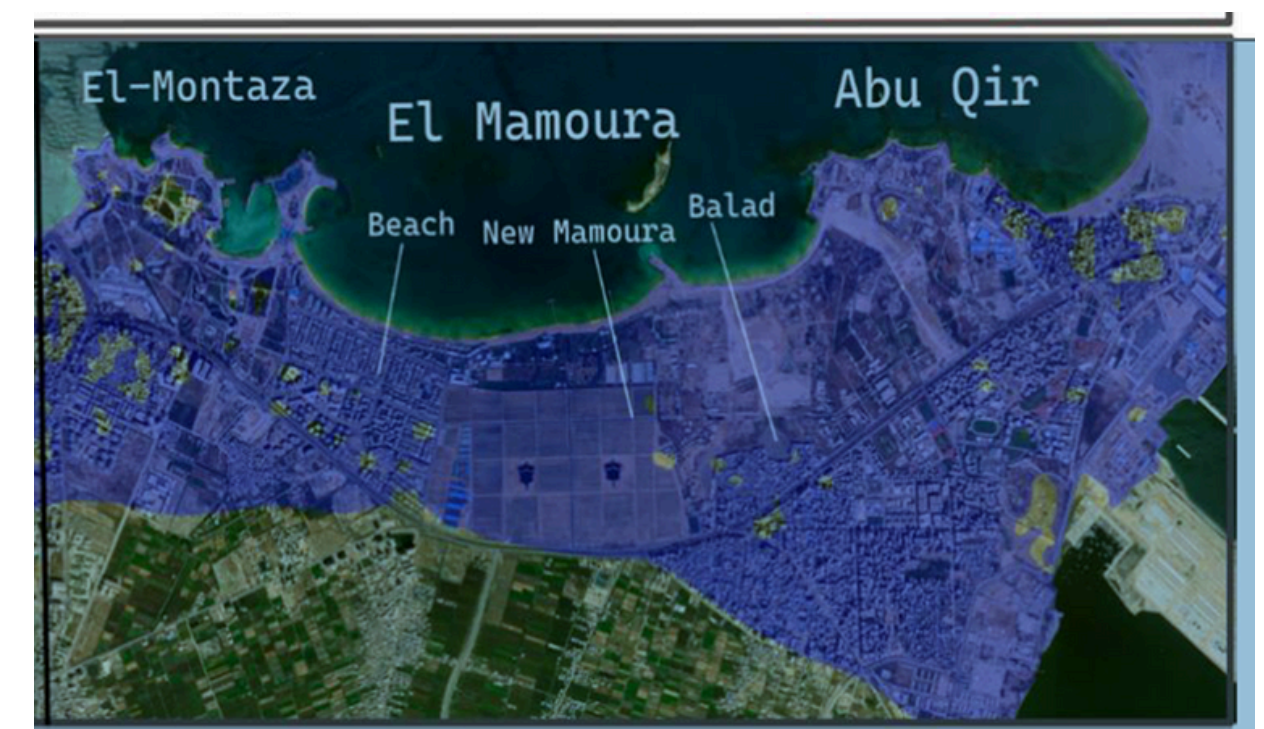
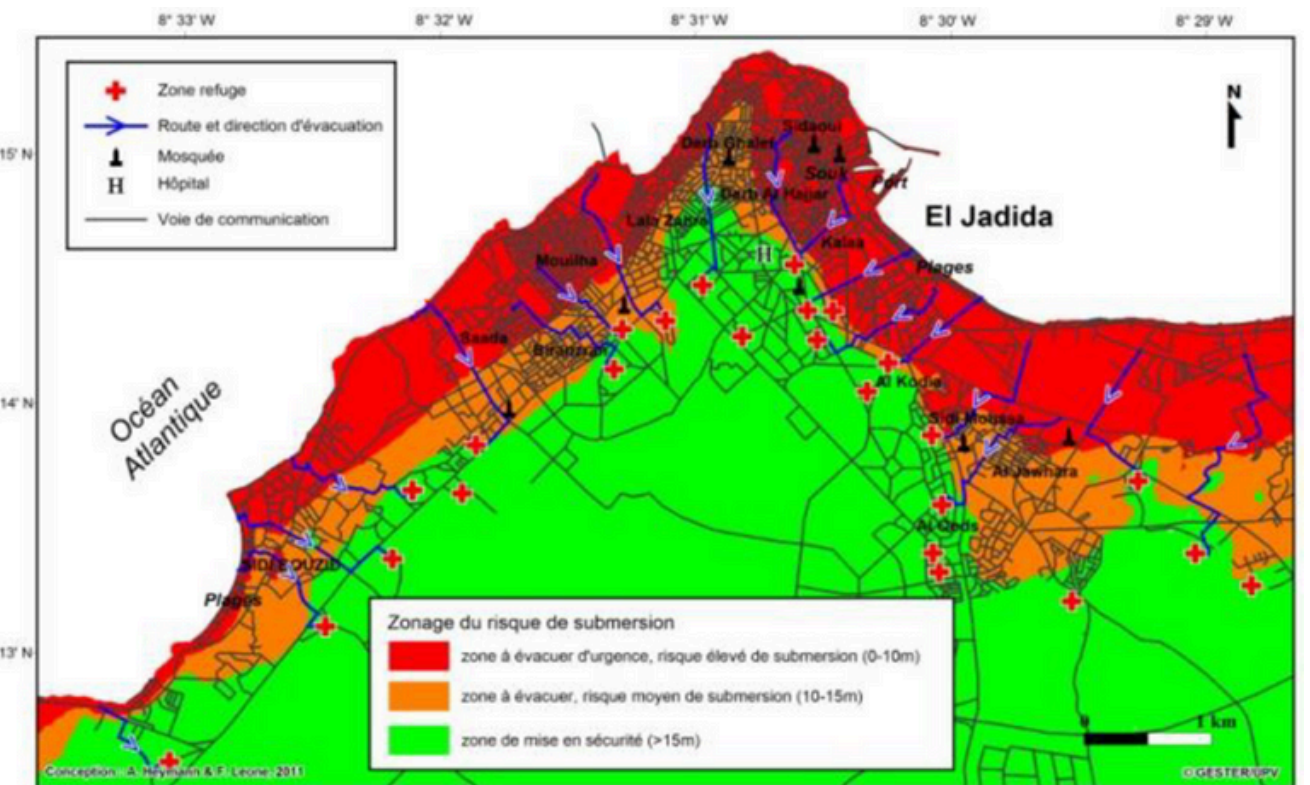
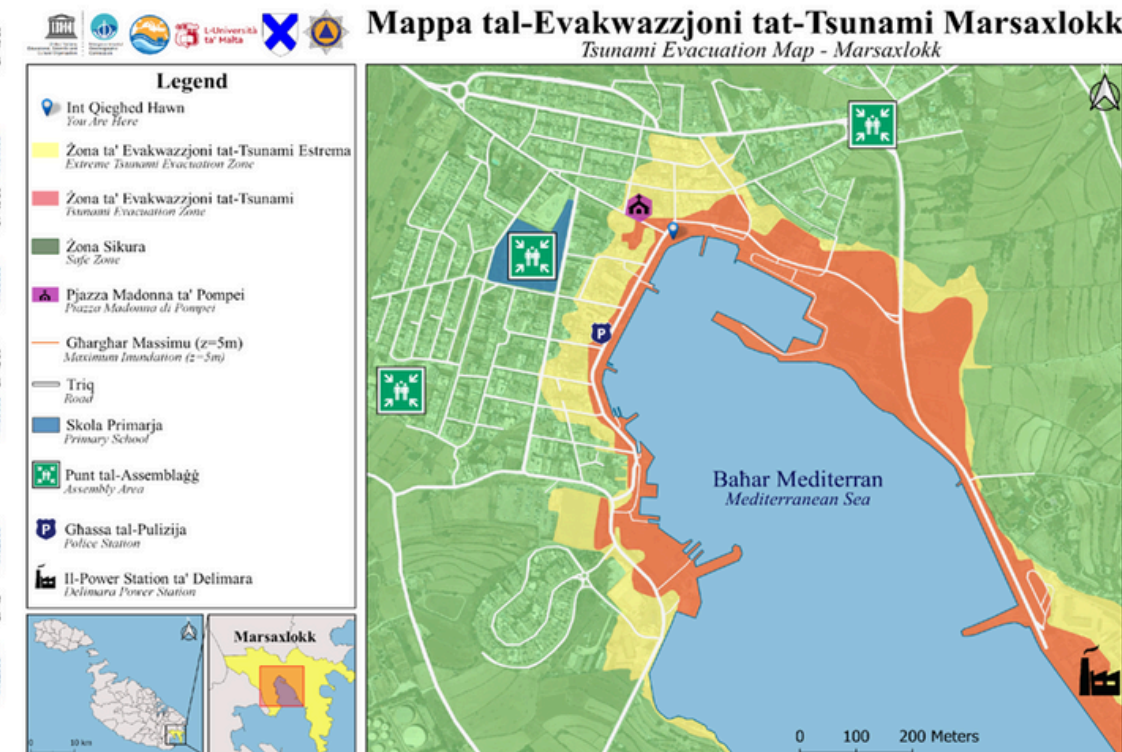
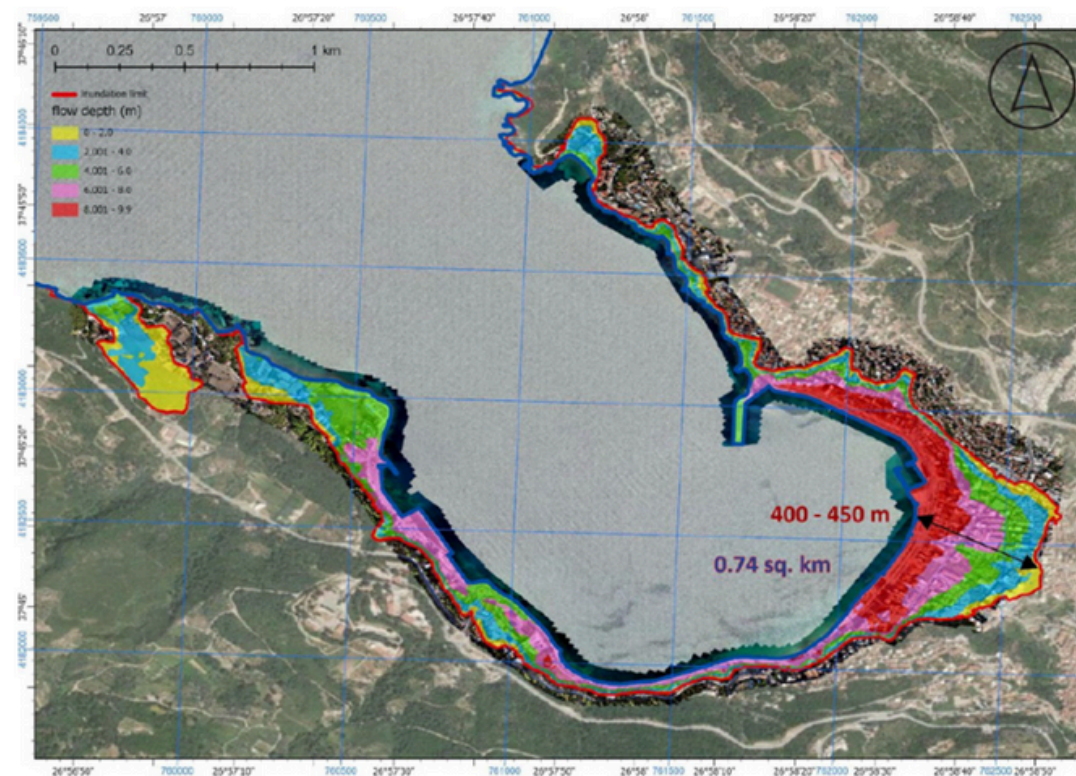
Limited Awareness and Risk Perception/assessment

Technical and Infrastructural Gaps

Funding and Resource Constraints

Institutional Coordination Difficulties

Community Engagement Challenges



Improving Awareness and Risk Perception

3 Educational /awareness activities for each community

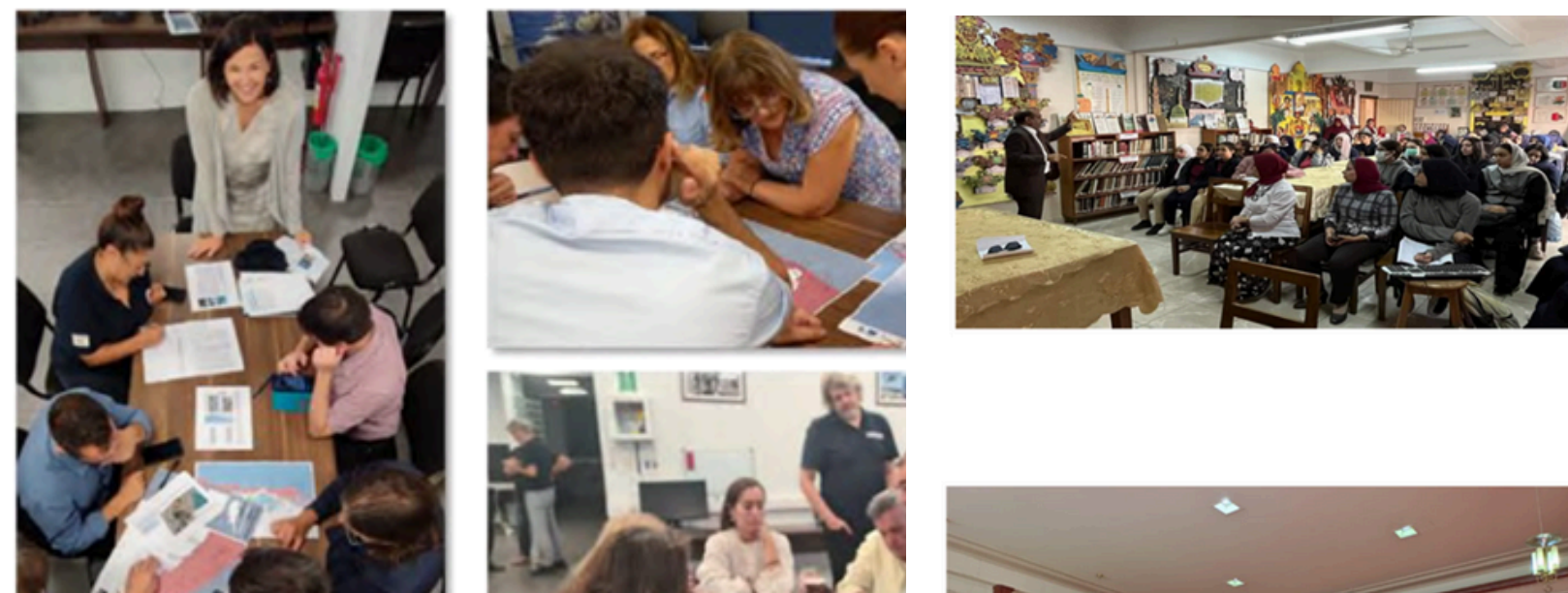
For Children



For Youth



For Adults

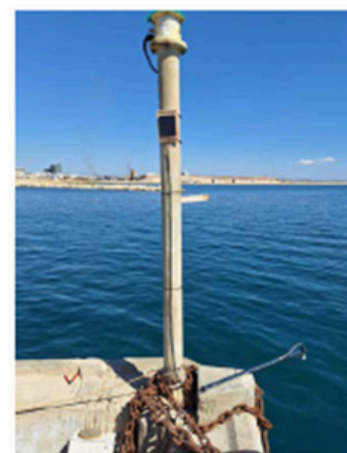
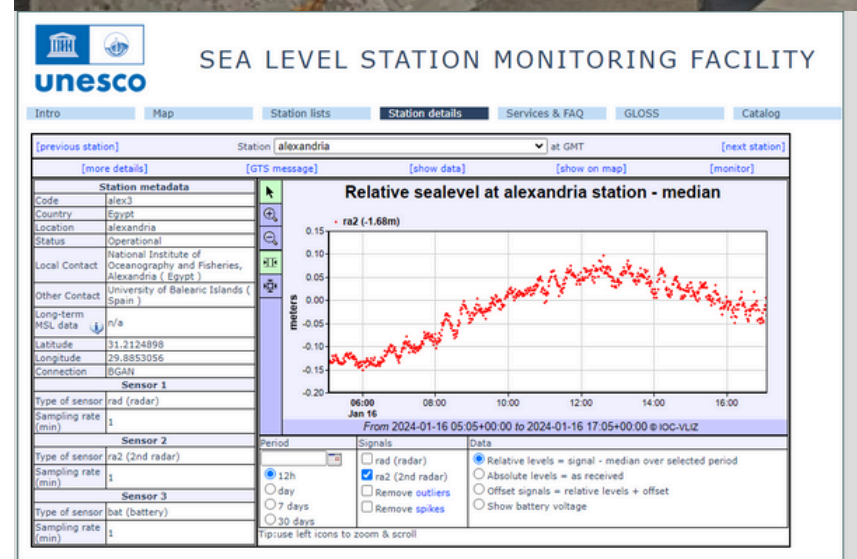


considering vulnerable groups



Closing Technical and Infrastructural Gaps

Installation of sea-level gauges in project countries



Installation of sirens in three communities



Installation of tsunami signages and information boards



Engaging National and Local Stakeholders

10 Standard Operating Procedures Workshops

Morocco



Spain



Portugal



Malta



Egypt



Turkiye

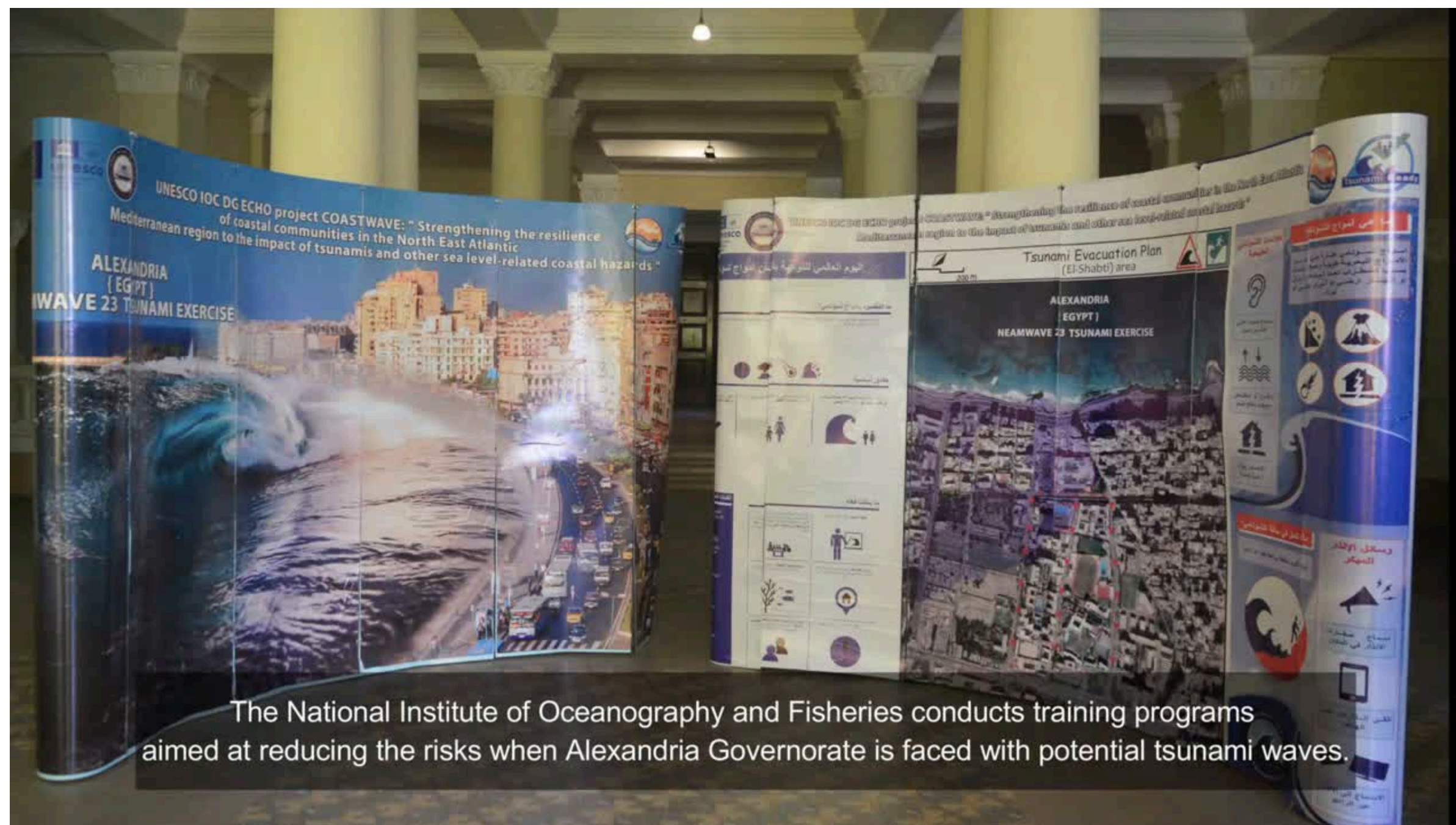


Greece



Engaging Community

With tsunami community exercises and drills



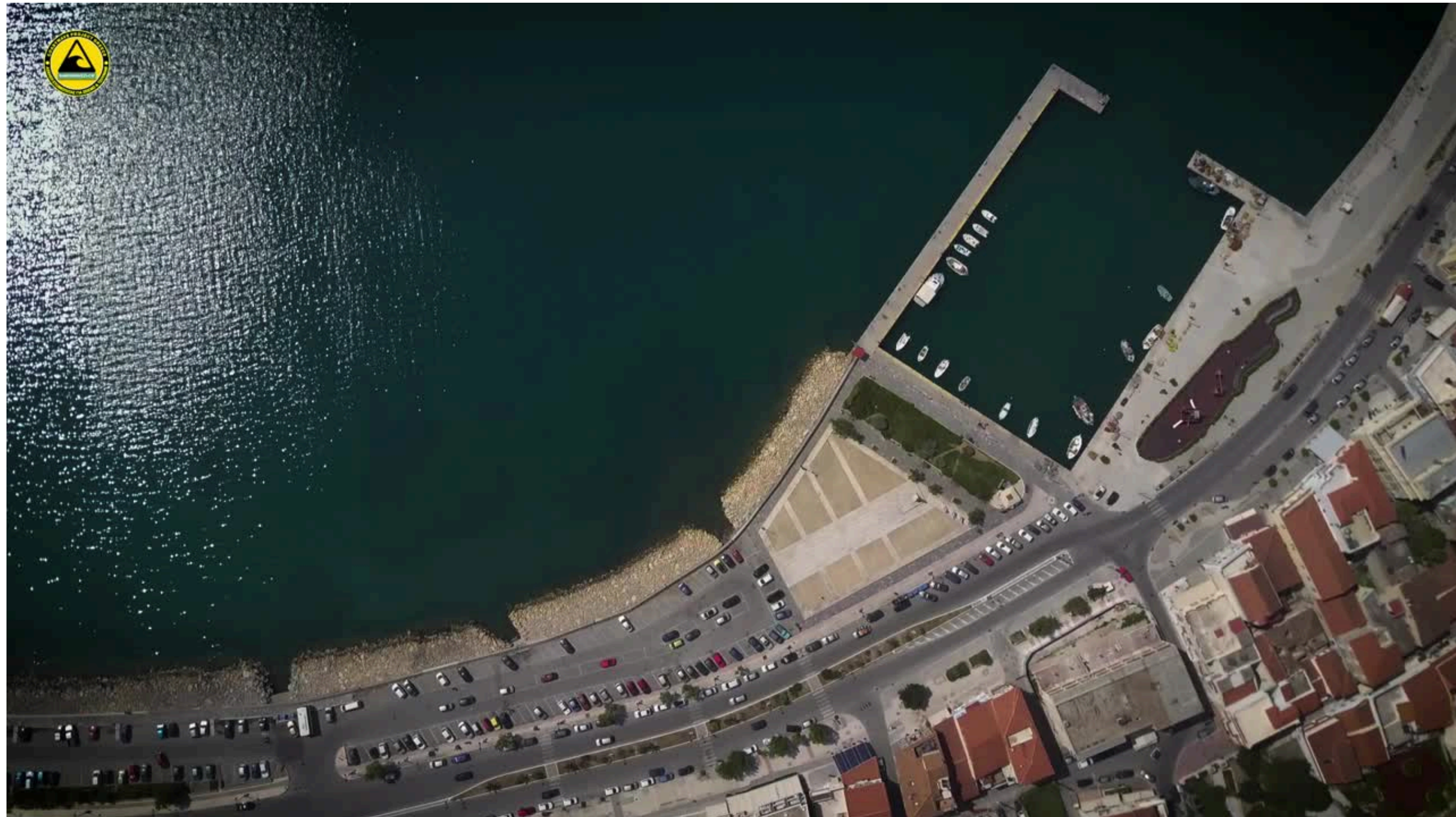
Engaging Community

Leaving noone behind



Engaging Community

with technologies



Greece

Lessons learnt

- Bringing together experts from diverse fields to more comprehensive and effective solution to facilitate communication and cooperation, to bridge gaps between technical expertise and practical implementation
- The project bolstered governance and institutional frameworks necessary for effective tsunami risk management.
- The project highlighted the need for ongoing collaboration, inclusion, and refinement in tsunami preparedness strategies.
- There was a boost in tsunami risk awareness at the municipal level and beyond, leading to greater political will and commitment to preparedness.
- The UNESCO-IOC TRRP integration with national governance frameworks improves warning communication and local emergency response plans





unesco

Intergovernmental
Oceanographic
Commission



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Funded by
European Union
Humanitarian Aid

Be Prepared be Tsunami Ready!



UNESCO-IOC CoastWAVE Project



Coastwaveproject



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