



# Harmonization and Networking for contaminant assessment in the Ionian and Adriatic Seas

From monitoring to risk assessment



Marina Lipizer & HarmoNIA partnership



















3rd ADRION ANNUAL EVENT 3 December 2020, Online



#### SPECIFIC OBJECTIVE 2.2

## ENHANCE THE CAPACITY IN **TRANSNATIONALLY** TACKLING **ENVIRONMENTAL VULNERABILITY**, FRAGMENTATION, AND **SAFEGUARDING ECOSYSTEM** SERVICES IN THE ADRION AREA

# ADRION ADRIATIC-IONIAN

# HarmoNIA



#### Who we are:

#### Partnership

- National Institute for Oceanography and Applied Geophysics (OGS) - Italy
- Italian National Institute for Environmental Protection and Research (ISPRA) - Italy
- Institute of Oceanography and Fisheries (IOF) Croatia
- ☐ Ruder Boskovic Institute (RBI) Croatia
- ☐ Hellenic Centre for Marine Research (HCMR) Greece
- Region of Western Greece (RWG) Greece
- ☐ National Institute of Biology (NIB) Slovenia
- ☐ Slovenian Environment Agency (ARSO) Slovenia
- Public institution University of Montenegro -Institute of Marine Biology (UoM-IMB) -Montenegro
- □ Agriculture University of Tirana Department of Plant Protection (AUT) - Albania



#### Associated Partners

- Ministry of Economic Development Directorate General for the Safety Also Environmental of Mining and Energy Activities National Mining Office for Hydrocarbons and Georesources -Italy
- ☐ Durres Municipality Albania
- Ministry of Sustainable Development and Tourism Montenegro
- Ministry of Environmental and Nature Protection Croatia

Interreg CHOPEAN LINION
30 years together

### Challenges in the ADRION region:

→ Hot spot of biodiversity - great environmental importance







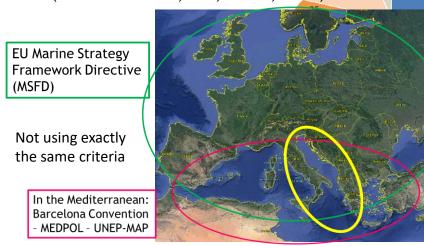


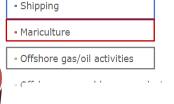


→ Pollution in the ADRION area is a key issue

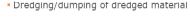
Are the Adriatic - Ionian Seas polluted?

Legislative instruments indicate how to assess pollution (what to measure, how, where, when)









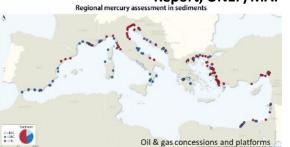
Historical dumping sites

Shipwrecks





From: 2017 Mediterranean Quality Status Report, UNEP/MAP

















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### HarmoNIA overall objective:

- □ to address the heterogeneity in methodological approaches (sampling -> analysis -> assessment)
- ☐ to overcome the fragmentation in data availability on contaminants
- ☐ to propose an approach for contaminant dispersion risk assessment.





HarmoNIA has dedicate efforts, at ADRION scale, to:

- ❖ share data
- information
- best practices

for harmonized monitoring (MSFD), assessing and managing pollutants in the marine environment

















# 1 - Harmonized monitoring

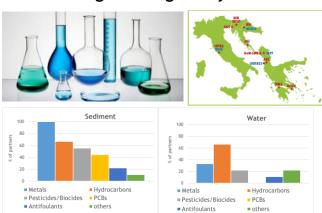


European Regional Development Fund - Instrument for Pre-Accession II Fu

# HarmoNIA

HarmoNIA Methodological Proposals to support harmonized implementation of marine environmental directives (MSFD, Barcelona Convention Protocols) in the ADRION region

#### Considering heterogeneity in:



- Harmonized sampling/analytical/data Quality Control procedures
- 2. Environmental Impact Assessment (EIA) protocols for offshore activities
- 3. Monitoring the **impact of offshore platforms** and **decommissioning** procedures



#### Targets:

- National, regional authorities involved in MSFD and IMAP, in Offshore monitoring
- Data management infrastructures (EMODnet,...)



Focus on impacts of offshore activities

https://harmonia.adrioninterreg.eu/library/harmonia-methodological-proposals

## 2 - Accessible harmonized data



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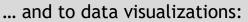
To facilitate access and re-use of marine data

Based on long-consolidated EU initiatives (SeaDataNet, EMODnet):



#### Provide easy access to metadata:







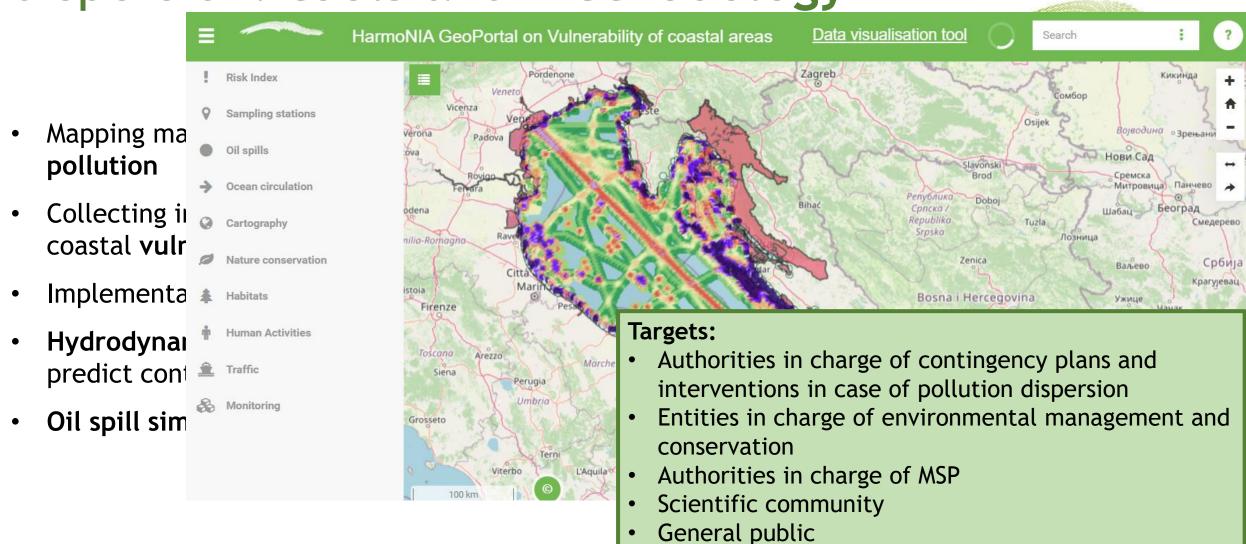
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- National, regional authorities involved in MSFD and IMAP
- Managers of pollution
- Scientific community
- General public

# 3 - Risk assessment of contaminant dispersion: tools and methodology



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### HarmoNIA in synthesis:

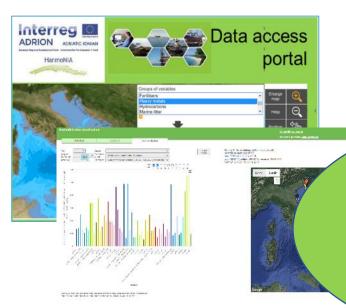


Shared analytical protocols



→ Guidelines

#### Common data infrastructure



→ Accessible data and information!

Risk assessment of contaminant dispersion: tools and methodology



Continuos stakeholder
engagement through
workshops, bilateral meetings,
questionnaires
to better understand and fit
ADRION needs

decision making

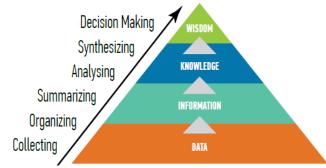


















## Thanks for your attention!

#### More information available on:

https://harmonia.adrioninterreg.eu/

#### HarmoNIA video:

https://www.youtube.com/watch?v=FNOwRyXn9Ps





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