



## WPM - Capitalization

Deliverable M6.2: Thematic Cluster main  
outcomes in ADRION capitalization event

**Interreg**   
EUROPEAN UNION

**ADRION** **ADRIATIC-IONIAN**

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

Thematic Cluster on Coastal  
and Marine Environment  
Management



## **Thematic Cluster main outcomes\***

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With contributions from HarmoNIA, PORTODIMARE & IMPRECO partnership

\*Draft to be implemented during the process of capitalization activities

# ADRION Thematic Clusters

## WHAT

**thematic networks** which allow to exchange practices and create synergies among projects dealing with complementary topics

## WHY

- **added value of project results:** increasing synergies between projects , boost transfer and re-use
- **strategic promotion of ADRION capital:** dissemination & transferability of project results beyond the partnership and after the end of the Programme
- **critical mass** of the Programme in each relevant thematic sector, raising awareness and improving communication of results in specific fields
- **ADRION impact & future:** identify common goals and new areas/fields of intervention to be funded in the future programming period



# ADRION Thematic Cluster on coastal & marine environment management

## WHAT

thematic network among the projects of axis n. 2 Sustainable Region



PORTODIMARE



IMPRECO



HarmonIA



## WHY

includes the necessary elements to handle the management of coastal and marine spaces in an integrated way:

- **biodiversity** preservation/protection
- **risk** prevention and resilience
- **pollution** and waste management
- **governance** to support a sustainable growth (MSP/ICZM)

# ADRION challenges faced by the cluster

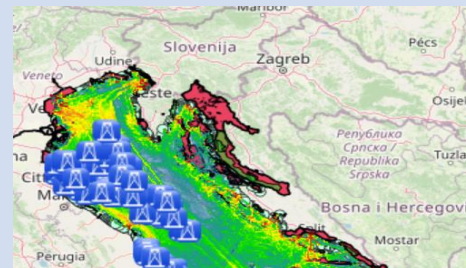
## HarmoNIA

- **Pollution monitoring and assessment** in ADRION region with special focus on **offshore activities** (harmonized monitoring-assessment-management-intervention)
- **Data/information** harmonization, availability & sharing
- Harmonized **implementation** of environmental policies and strategies
- **Pollution risk assessment** from offshore sources



## PORTODIMARE

- **Competition for coastal & maritime space** by human activities, climate change effects, natural & manmade hazards
- need for **transnational integrated and efficient planning & management** of coastal and marine spaces & uses at macroregional level
- need for fit for purpose **knowledge and tools**



## IMPRECO

- **Maintenance and enhancement of natural ecosystems** and their functionality in order to protect, from human and natural pressures, their capacity to **provide services** fundamental for people's wellbeing and socio-economic conditions of the ADRION area;
- Integration of the so-called **ecosystem services approach** into society's decision-making and local management/development plans;
- Strengthening of Protected Areas' capacity to cooperate at transnational level in order to cope with **environmental vulnerability and conservation challenges.**



# Data, information & tools made available

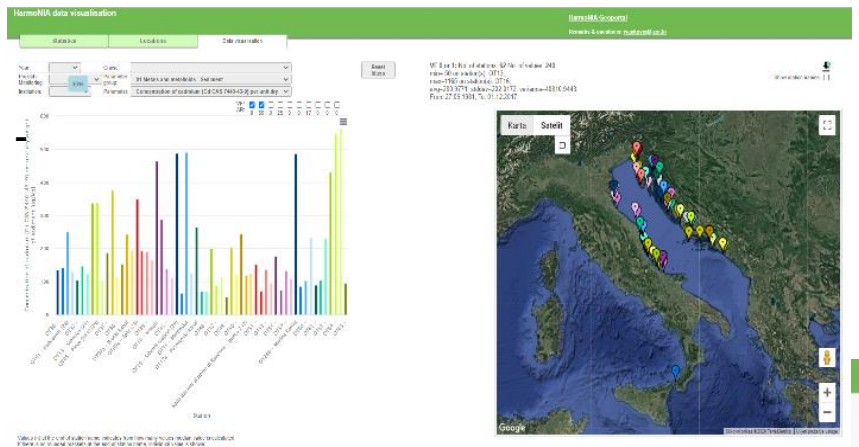
HarmoNIA	PORTODIMARE	IMPRECO
<ul style="list-style-type: none"> <li>• <b>Monitoring data</b> (marine contaminants)</li> <li>• <b>Spatial &amp; temporal patterns</b> in contaminant concentrations</li> <li>• Information to assess <b>coastal vulnerability</b></li> <li>• Information to assess <b>pollution hazards</b></li> <li>• Maps of <b>pollution risk index</b></li> <li>• <b>Oil spill simulations</b> with hydrodynamic modelling tools</li> <li>• Information to support sustainable development</li> </ul> <p style="text-align: center;"><a href="#">HarmoNIA Data Access Portal</a></p> <p style="text-align: center;"><a href="#">HarmoNIA Visualization Tool</a></p> <p style="text-align: center;"><a href="#">HarmoNIA GeoPortal on Vulnerability of coastal areas</a></p>	<ul style="list-style-type: none"> <li>• <b>475 layers</b> organised in <b>20 categories</b> (aquaculture, biological charact., submarine cable &amp; pipelines, coastal defence, coastal/land use, underwater cultural heritage, raw material extraction areas, fishing, maritime boundaries, maritime transport/traffic routes, military, oil &amp; gas, physical charact., ports, pressure impacts, nature &amp; species, renewable energies, terrestrial boundaries, tourism &amp; recreation, types of habitat)</li> <li>• access to <b>23 data portals</b> relevant for MSP &amp; ICZM processes</li> </ul> <p style="text-align: center;"><b>PORTODIMARE</b>  <small>geoPORTal of TOols &amp; Data for sustaInable Management of coAstal and maRine Enviroment</small></p>	<ul style="list-style-type: none"> <li>• Mapping of <b>Eco-system (ES)</b> and <b>Ecosystem Services (ESS)</b>;</li> <li>• Mapping of stakeholders (SH) analysed by: benefit perceived, impact produced, conflict among SHs, involvement in ESS management;</li> <li>• Selection of core cases and analysis of provided ESS, actual use of the ESS, economic values;</li> <li>• Monitoring data (indicatory species);</li> <li>• Development and collection of ES management measures.</li> </ul>

# Main project products/tools - HarMoNIA

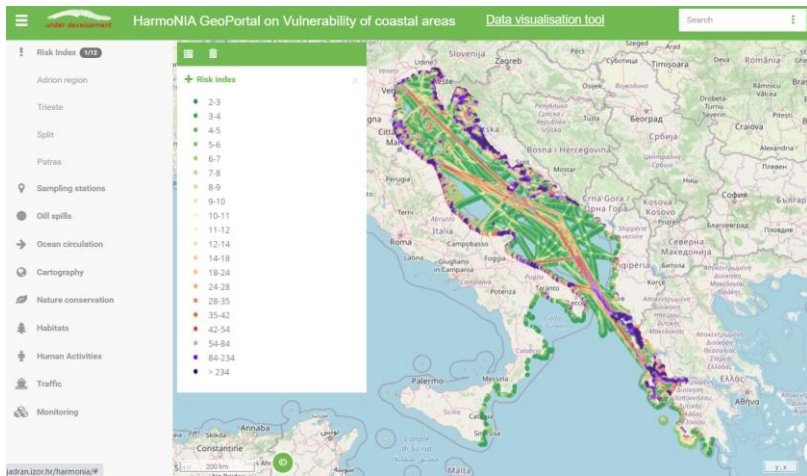
Finding data on marine contaminants - **HarMoNIA Data Access Portal**



Visualizing contaminant concentrations - **HarMoNIA Data visualization tool**



Evaluating coastal vulnerability and risk to contaminant dispersion - **HarMoNIA GeoPortal on Vulnerability of coastal areas**



# Project peculiarities

HarmonIA	PORTODIMARE	IMPRECO
<ul style="list-style-type: none"> <li>• Sharing <b>best practices</b> (monitoring-assessment offshore platform impacts &amp; marine contaminants)</li> <li>• Support to <b>MSFD</b> (monitoring approach, data availability)</li> <li>• Common <b>data management platform</b></li> <li>• Support to harmonized management of <b>offshore activities</b> (monitoring, EIA, decommissioning)</li> <li>• Implementation of <b>regional strategies</b> to monitor, assess and manage sea pollution</li> </ul>	<ul style="list-style-type: none"> <li>• Geoportal (GAIR) based on <b>FOSS</b> (Free and Open Source Software)</li> <li>• <b>7 Modules:</b>            Maritime Use synergy Conflicts - MUC            Cumulative Effects Assessment - CEA            Aquaculture Zoning Assessment - AZA            Particles/conservative contaminants dispersion -PARTRAC            Oil Spill Coastal Vulnerability            Small scale fisheries footprint            Medium scale fisheries footprint and cumulative impacts of SSF/MSF</li> <li>• <b>4 strategies/action plans</b> to feed maritime and coastal plans</li> </ul>	<ul style="list-style-type: none"> <li>• Sharing <b>best practices</b> (Repository of ES management measures)</li> <li>• Development of a <b>methodology</b> for selecting and applying the best ES management measures according to local needs.</li> <li>• Transnational <b>strategy</b> for the application of ecosystem services approach and the management and safeguarding of ecosystems</li> <li>• Activation of a Protected Areas' integrated management system: establishment of <b>task forces with SHs</b>, and closure of agreements with SHs</li> </ul>

→ MSFD

→ MSPD

→ EU Biodiversity Strategy to 2020



# Project outputs - HarmoNIA



- ❑ **HarmoNIA Strategy I** for harmonized monitoring and assessment of contaminants in the marine environment of the Adriatic-Ionian Region
- ❑ **HarmoNIA Strategy II** for a shared and harmonized evaluation of the risk due to contaminant dispersion from different sources of pollution, in the Adriatic-Ionian Region.

HarmoNIA Methodological proposals for harmonized monitoring, assessment, EIA for offshore activities and decommissioning procedures:



- ❑ **HarmoNIA Transnational Network** of Institutions Sharing expertise and information towards harmonization of monitoring of contaminants in the marine environment, data management and visualization.



# Synergies to better address ADRION challenges

## HarmoNIA

- Implementation/harmonization/support to environmental regulations
- Integrating/developing/harmonizing **best practices for monitoring and assessment of marine contaminants** and protection of ecosystems
- **Task force of ADRION experts** on monitoring and assessment of marine contaminants and pollution from offshore activities
- Increasing marine knowledge & coherent and interoperable data management of coastal and marine environments

... better assessment of coastal vulnerability

## PORTODIMARE

- organize & make accessible marine and coastal **knowledge** through a single virtual space
- prevention and mitigation of impacts from anthropic pressures on environmental components through **strategic planning**
- through the GAIR, reaching common agreements and shared strategies at macroregional level aimed at managing a **sustainable growth**

... better planning of human activities

## IMPRECO

- Introduction of the ESS approach in the praxis of development and cohesion policy, thus facilitating the achievement of EU standards.
- Integrating/developing/harmonizing **best practices for the management and protection of natural ecosystems**.
- **Task force of ADRION experts** on monitoring and assessment of ecosystem services.
- Increasing capacities of Protected Areas to act as living labs for testing innovative measures on ES conservation

Providing habitats and ecosystem data to...



# Contribution to EUSAIR Action Plan: PORTODIMARE

## Fisheries & aquaculture:

integrating/developing **tools** for sustainable fisheries and optimal aquaculture siting

## Maritime & marine governance / services:

increasing institutional capacity to harmonize standards/regulations by the implementation of MSP & ICZM processes, and by promoting data availability and **knowledge** management according to the open data principle through the creation of the Geoportal



Blue Growth  
**EUSAIR**



Environmental Quality  
**EUSAIR**

## The marine environment:

increasing **marine knowledge** as a sound basis for actions related to MSP, ICZM and MSFD through the creation of the Geoportal, and by providing **tools** to support the decision making & planning processes.

## Terrestrial habitats & ecosystems:

promoting the ecosystem-based approach & the **networking** of protected areas (green/blue corridors)

## Maritime transport & Energy networks:

data and knowledge sharing favors the proper development & management of these human activities in a **sustainable** and **multi-use context**, avoiding conflicts and maximizing synergies

Support to contingency plans in response to pollution & risks



Connecting the Region  
**EUSAIR**



Sustainable Tourism  
**EUSAIR**

## Macro-regional routes :

the Geoportal provides data & tools for **evidence-based** solutions

## Attractiveness:

by enhancing the networking of protected areas and the sustainability of human activities, the project creates the basis for a healthier and attractive Region

# Contribution to EUSAIR Action Plan: HARMONIA

Thematic Cluster on Coastal  
and Marine Environment  
Management



## Fisheries & aquaculture:

uniform monitoring and assessment of the state of the sea and pollutants in biota provides an overview of pollution and indirectly opportunities for the development of aquaculture

Geoportal provides data and enables modeling of the spread of potential pollution and thus indirect protection of shellfish / fish farming areas

## Maritime & marine governance / services:

cooperation between partner institutions and stakeholders in the region has been established and strengthened

sharing data and knowledge among experts and public bodies

## Maritime transport & Energy networks:

Geoportal enables modeling of the spread of potential pollution and thus enables safer operation of ports and ships

the strategy of setting up and environmental impact assessment enables the installation / removal of platforms



Environmental Quality  
**EUSAIR**

The marine environment:  
data collection in one place to enable action planning

improving the quality of data on the state of the sea, which enable better environmental impact assessment and revision of measures to improve the condition and protection of organisms

## Terrestrial habitats & ecosystems:

Geoportal provides data and enables modeling of the spread of potential pollution and thus indirect protection of habitats and ecosystem

## Macro-regional routes :

Geoportal makes data on the state of the region and pollution available in one place

## Attractiveness:

data availability allows the display of a realistic image which increases the reputation of the region



Sustainable Tourism  
**EUSAIR**



Blue Growth  
**EUSAIR**



Connecting the Region  
**EUSAIR**



# Contribution to EUSAIR Action Plan: IMPRECO

## Fisheries & aquaculture:

Identification of provisioning ecosystem service (ESS) of seafood and fish-based products

## Maritime & marine governance / services:

Transferring of data and information on ES/ESS of Marine and Coastal Protected Areas (M&CPAs) for a more effective and sustainable governance of maritime space

## Macro-regional routes :

Conservation and valorisation of cultural ESS for a more sustainable tourism offer and for addressing specific targets of tourists/tourism niches (eco-tourism)

## Attractiveness:

Development of best practices and tools for the management of the touristic offer of M&CPAs



Environmental Quality  
**EUSAIR**



Blue Growth  
**EUSAIR**



Sustainable Tourism  
**EUSAIR**

## The marine environment:

Inventory of species, habitats, ES/ESS in the pilot M&CPAs

Development of a common approach for biodiversity monitoring on the status of aquatic ES and for determining GES indicators and targets;

Ensuring the joint and coordinated management of M&CPAs, also in relation to maritime spatial planning and integrated coastal management;

Establishing a common platform for data collection among M&CPAs through the adoption of a joint methodology for ES management and assessment;

## Terrestrial habitats & ecosystems:

Development of a common approach for biodiversity monitoring on the status of terrestrial ES and for determining GES indicators and targets;

Promoting the ESS approach & the networking of PAs;  
Protection and restoration of coastal wetland areas through clean-up of sites;

Awareness-raising activities on implementation and financial aspects of organic farming practices complementing restoration and preservation of biodiversity



**integrated/efficient planning & management of coastal and marine spaces**

common platform (Geoportal) for ICZM & MSP processes relevant data, information, decision support tools  
strategies/action plans to feed maritime & coastal plans



**risks of pollution from hazardous substances**

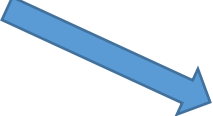
transnational network of institutions adopting a joint data management system for contaminants in the marine environment  
regional strategies to improve harmonization in monitoring & assessment, and to evaluate risk of contaminant dispersion in vulnerable coastal zones from different pollution sources



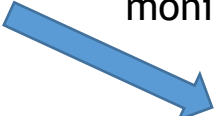
**safeguarding of ecosystem services & tackle their environmental vulnerability**

transnational network composed by PAs and local stakeholders  
common strategy for the ecosystem management and conservation together with a set of innovative governing tools

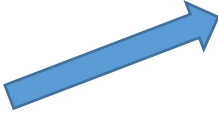
**PILLAR 3  
Flagships proposed for  
2021-2017 embedding**



Promotion of sustainable growth of the Adriatic and Ionian Region by implementing ICZM & MSP also to contribute Common Regional Framework on ICZM of Barcelona convention and the monitoring and management of marine protected areas



Development and implementation of Adriatic-Ionian sub/regional oil spill contingency plan



Protection and enhancement of natural terrestrial habitats and ecosystems



Environmental Quality  
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TOPIC 1  
marine environment

TOPIC 2  
Terrestrial habitats & ecosystems

**Thinking of synergies**

