



ADRION Thematic Cluster n.2 on Coastal and Marine Environment management activities



Comparative analysis:

- ADRION challenges faced by the cluster
- Data, information & tools made available



Marina Lipizer, HarmoNIA Coordinator
Olga Sedioli, PORTODIMARE Coordinator
Massimiliano Pinat, IMPRECO Coordinator

With contributions from HarmoNIA, PORTODIMARE & IMPRECO partnership

ADRION challenges faced by the cluster

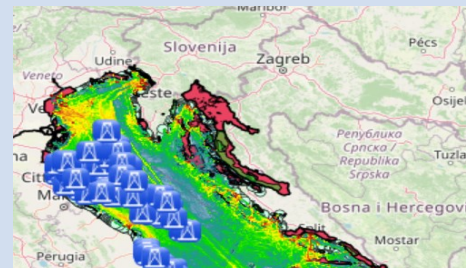
HarmoNIA

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

Project peculiarities

HarmonIA	PORTODIMARE	IMPRECO
<ul style="list-style-type: none"> • Sharing best practices (monitoring-assessment offshore platform impacts & marine contaminants) • Support to MSFD (monitoring approach, data availability) • Common data management platform • Support to harmonized management of offshore activities (monitoring, EIA, decommissioning) • Implementation of regional strategies to monitor, assess and manage sea pollution 	<ul style="list-style-type: none"> • Geoportal (GAIR) based on FOSS (Free and Open Source Software) • 7 Modules: 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 • 4 strategies/action plans to feed maritime and coastal plans 	<ul style="list-style-type: none"> • Sharing best practices (Repository of ES management measures) • Development of a methodology for selecting and applying the best ES management measures according to local needs. • Transnational strategy for the application of ecosystem services approach and the management and safeguarding of ecosystems • Activation of a Protected Areas' integrated management system: establishment of task forces with SHs, and closure of agreements with SHs

→ MSFD

→ MSPD

→ EU Biodiversity Strategy to 2020

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

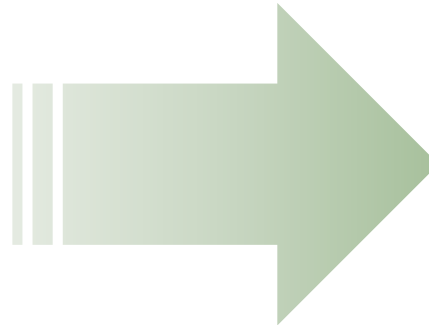
- Introduction of the ESS approach in the praxis of development and cohesion policy, thus facilitating the achievement of EU standards.
- Integrating/developing/harmonizing **best practices for the management and protection of natural ecosystems.**
- **Task force of ADRION experts** on monitoring and 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...



Projects' main outputs:

- Data access portal
- GeoPortals
- Geo-referenced information
- Guidelines and best practices
- Strategies
- Networks



Shared need to disseminate outputs to support a common trans-national approach to coastal and marine environmental management



Next steps:

- ❖ Collect from stakeholders information on **needs** and **gaps** for a sustainable management of the marine environment
- ❖ Strengthen **science - policy dialogue**
- ❖ Take on board new ADRIAN projects to improve tackling EUSAIR challenges and **strengthen collaborations**

