

PORTODIMARE

PORTODIMARE is an Interreg ADRION project that aims at creating a common platform (Geoportal) for data, information and decision support tools focused on coastal and marine areas of the Adriatic-Ionian Region. The Geoportal integrates and further develops existing databases, portals and tools developed within previous EU projects (such as PlanCoast, Shape, Adriplan) by local and national administrations and by other initiatives. Duration: 1 January 2018 - 31 July 2020.

Partnership

Lead Partner: Emilia-Romagna Region, Directorate General for Territory and Environment Protection (RER_DGCTA).

Project Partners: CORILA - Consortium for co-ordination of research activities concerning the Venice lagoon system (Italy); RRC - Regional Development Center, Koper (Slovenia); PAP/RAC - Priority Actions Programme Regional Activity Centre (Croatia); HCMR - Hellenic Centre for Marine Research (Greece); ZPUIZ - Institute for Spatial Planning of Istria County (Croatia); JPMDCG - Public Enterprise for Coastal Zone Management of Montenegro (Montenegro); CETEOR - Centre for Economic, Environmental and Technological Development, Sarajevo (Bosnia and Herzegovina); CP - Civil Protection service, Apulia (Italy); OOMM Service, Abruzzo (Italy); RdV – Veneto Region (Italy).

Associated partners: Marche Region (Italy); ARPAE (Italy).

The **Work Package T1** - Geoportal design and development phase defines and implements architecture and main components of the Geoportal. It is under the responsibility of CORILA. RER_DGCTA will host the Geoportal and will assure its maintenance after the project conclusion. All partners (including PAP/RAC) will contribute to populate the Geoportal with data and information.

T 1.1 - Compose and prioritize a complete list of requirements (e.g. which mandatory/optional functions, which types of data, which time and space resolution, which end-users, etc.) of the Geoportal to be designed and developed in its basic block, using a problem-driven approach (PAP/RAC among other Project Partners - PPs)

T 1.2 - Data and information requirements in order to implement ICZM/MSP and to support transnational co-operation on ICZM/MSP. It specifies mandatory and optional datasets, data formats, spatial and temporal dimensions (All PPs)

T 1.3 - To avoid duplication in terms of data and functions, existing tools must be inventoried and qualified. This analysis focuses particularly on tools relevant for Adriatic-Ionian Region (All PPs)

T 1.4 Geoportal – System architecture and design based on required tool functions considers a multi-purpose modular system able to provide basic and general functionalities and inclusion of modules to be developed under T 1.6-1.12.

T 1.5 – Actual development of Geoportal and relevant documents: online publication of the Geoportal interface; a practical guide dedicated to PPs on how to prepare data and metadata; a practical guide dedicated to general end users. All PPs will participate.

The project will prepare and test a series of modules used for analytical purposes, mainly to provide information for coastal and marine planning. They will be tested in the pilot areas. The modules are the following:

T1.6 Module on analysis of conflicts and synergies among sea uses (MUC)

T1.7 Module on cumulative impacts on marine ecosystems of land and sea-based pressures (CEA)

T1.8 Module on optimal siting of aquaculture farms (Aquaculture zoning)

T1.9 Module on dispersion of substances/contaminants from terrestrial and marine sources (Particle tracking)

T1.10 Module on coastal vulnerability to oil spills released offshore (Coastal vulnerability to oil spills)

T1.11 Module on small scale fisheries spatial footprint and corresponding fishing effort for inclusion in the MSP process (SSF-Footprint)

T1.12 Module on fisheries (trawlers + purse-seiners) spatial footprint from VMS data. (MSF + SSF/MSF Cumulative effects)

PAP/RAC is the responsible partner and leads the **Work Package T2**, co-ordinating the training, the testing activities T2.2-2.7 (under local PPs responsibility) and the elaboration of strategies/action plans for Geoportal use, maintenance and transferability.

T 2.1 – organization of two training workshops about implementing demonstration actions on local level:

T 2.1.1 First workshop in Split, Croatia – October 2019

T 2.1.2 Second workshop in Pula, Croatia – March 2020 (Organised by Istria county)

Each workshop will have around 35 participants and last for 1,5-2 days.

Pilot projects

T 2.2 – Pilot 1: Threats to coastal & marine biodiversity; Vrsar and Funtana islands /Istria - aims to gather existing scientific data as well as new ones from the test area (Vrsar and Funtana islands), summarise existing spatial data and elements useful for future action related to MSP/ICZM and implementation of MFSD. Managed by ZPUIZ (Institute for Spatial Planning of Istria County).

T 2.3 – Pilot 2: Evaluation of sea uses sustainability in Emilia-Romagna - demonstration aims at testing the Geoportal and the modules dedicated to conflicts/synergies among uses and on cumulative impacts, in order to enhance the sustainability of sea uses and the environmental quality of the maritime area facing the Region. Managed by RER-DGCTA.

T 2.4 – Pilot 3: Spatial conflicts among human activities and conservation priority areas in Western Greek waters/Kefalonia - Cumulative impact assessment - spatial conflicts among fisheries, aquaculture, tourism and conservation priority areas in the Kefalonia Island. The goal

is to identify barriers associated with combining marine activities and enable the more efficient use of the marine space with reduced environmental impacts. Managed by HCMR.

T 2.5 – Pilot 4: Abruzzo coastal evolution mapping - Drafting a map representing the coastline evolution (period 2000-2015) to assess the physical and territorial availability to support spatial planning policies. Managed by OOMM Service.

T 2.6 – Pilot 5: Spatial conflicts among existing uses and legal regimes on sea-coastal strip - Spatial conflicts along Slovenian coast (Pilot 5A managed by RRC Koper) among different sea and coast uses will be identified by using/testing the Geoportal and its tools and presented in a report: conflicts among tourism, maritime transport, nature conservation areas, bathing areas and others sea-coastal uses. Pilot 5B will be on coast of Bosnia and Herzegovina (managed by CETEOR Sarajevo).

T 2.7 – Pilot 6: Oil spill coastal grounding response - organization of one oil-spill beach grounding simulation in Apulia and use of Geoportal as Decision Support System (DSS) to address response tactics. Managed by CP Apulia.

The most relevant activities for the External expert are those under T 2.8 - The Geoportal maintenance and transferability plan will focus on how project results will be shared with other regions/administrative units/target groups and how they can influence policies and behaviours.

T2.8 aims to ensure the widest use and transferability of the results. The Geoportal maintenance & transferability plan will focus on how project results will be shared with other regions/administrative units/target groups and how they can influence policies & behaviours. It will also include the responsible actors that will have to influence policy makers to replicate or demonstrate the use of outputs. All available channels will be used to validate and transfer project results to be used in other similar situations, giving priority to EUSAIR Countries. Agreements/protocols will be promoted among institutions of PPs and possibly others on how to maintain the datasets and tools in time. A Practical Guide shall provide examples & suggestions on how the Geoportal & tools as well as experiences/best practices from testing activities.

T2.8 includes:

T 2.8.1 Geoportal maintenance and transferability plan

How the project outputs will be shared with other target groups and how they can influence the policies/behaviours. It will also include the possible agreements/protocols among institutions on how to maintain the Geoportal datasets and modules in time. The deliverable should provide a vision on how the Geoportal will be further explored and maintained especially within the AIR. A sort of a road map could be drafted on the concrete steps for the Geoportal to become a living tool used by the AIR countries. A possibility of a political decision within the EUSAIR should be elaborated. Also, its transferability to other Mediterranean sub-regions and other EU regional seas could be envisaged.

The initial chapters of the report should present the background of the Portodimare project; present the Geoportal and individual modules and some most successful results from the testing sites. The rest of the plan should focus on the maintenance and transferability.

T 2.8.2 Geoportal Practical Guide

A practical guide will be prepared based on manuals provided by the developers of the Geoportal and by the developers of individual modules. Also, experiences gained in testing activities will be taken into account that may influence a revision of Geoportal manual. The Guide will be used in other Adriatic-Ionian Region (AIR) areas and in a wider Mediterranean context with the aim of transferability and replicability of methodologies and tools.

T 2.8.3 Strategies and action plans on 4 testing areas of the Geoportal (PPs from Italy (RER), Slovenia, Croatia and Greece)

The use of the Geoportal and its modules will be tested in 6 testing sites. The testing performed in AT2.2, AT2.3, AT2.4, AT2.6 (PPs from Italy (RER), Slovenia, Croatia and Greece) consists in the integrated analysis of coast/sea uses and environmental conditions and in the development of plans and recommendations for the planning and management processes according to ICZM/MSP principles. Such plans will significantly support the future development of national maritime spatial plans (including their transnational dimension) as foreseen in Directive 2014/89/EU in the 4 EU Countries of the Adriatic-Ionian Region and the implementation and further development to EUSAIR Action Plan. Such medium-long term vision is sustained by D.T2.8.1 which specifically targets proposals/guidelines and possible agreements/protocols on how to maintain the Geoportal datasets and tools in time and how to transfer the use of the Geoportal and its modules/tools to target groups.

Country specific strategies/action plans on how to maintain and transfer the Geoportal and its modules within its own pilot area and in the country as a whole should be the main aim of this activity. The deliverables should specify concrete actions and target groups/responsible administrative levels/organisations on how to achieve this aim. A sort of a road map should specify concrete steps including agreements/MoUs on how to guarantee that the Geoportal will remain in use after the end of the project. Similarly to T2.8.1, the initial chapters of the report should present the background of the Portodimare project; present the Geoportal and individual modules, and results from the respective testing site. The later and the rest of the document will be completed by the respective PPs.

Technical advice will be provided by the external expert to the pilot sites/testing areas on drafting the strategies/action plans if needed.

Module	T2.2	T2.3	T2.4	T2.5	T2.5?	T2.6	T2.7
	#1: Threats to coastal & marine biodiversity (ZPUIZ)	#2: Evaluating sea uses sustainability in Emilia-Romagna (RER_DGCTA)	#3: Spatial conflicts among human activities as well as with conservation priority areas in Western Greek waters (HCMR)	#4: Abruzzo coastal evolution mapping (Service OOMM)	#5: Spatial conflicts among existing uses and legal regimes on sea-coastal strip	#5: Spatial conflicts among existing uses and legal regimes on sea-coastal strip along Slovenian coast (RRC Koper)	#6: Oil spill coastal grounding response (CP Apulia)
	Vrsar and Furta Islands	Emilia-Romagna marine area	Kefalonia Island	Abruzzo coastal area	Bosnia and Herzegovina coast	Slovenian coast	Apulian seashore
T1.6 MUC	Not applicable	Applicable	Applicable*		Not applicable	Applicable**	
T1.7 CEA	Applicable*	Applicable	Applicable*			Applicable**	
T1.8 Aquaculture zoning		Applicable (Mussels only)	Applicable (Finfish only)			Applicable (Finfish only)	
T1.9 Particle Tracking		Applicable	to be confirmed				Only Adriatic part
T1.10 coastal vulnerability to oil spills							Applicable**
T1.11 SSF - Footprint		to be confirmed	Applicable				
T1.12 MSF + SSF /MSF Cumulative effects		to be confirmed	Applicable				
		* applicable with some limits (data resolution, etc.)					
		** data in acquisition					
		derived from the Application					
		Interest / request expressed by testing sites responsables					

Table: PPs and modules to be tested in pilot areas as agreed at Technical and Steering Committee meeting in Split 23 October 2019.

As for the **WP "Communication"**, PAP/RAC will, through PAP/RAC network of National Focal Points, ensure the awareness raising in the AIR and also at the Mediterranean level on project events such as the International Conference on ICZM & MSP in October 2018, along with the production and distribution of dissemination material concerning the topics of coastal and marine sustainable management and planning.