Riferimenti Amministrativi di Progetto:Interreg Mediterranean
Interreg Mediterranean: Second call for modular projects

General Objective	**Protection and promotion of natural resources in Mediterranean coastal regions improving the sustainability of fishing activities through the exploitation, the protection and the conservation of marine resources, the development of positive interactions between territories, populations and local economic operators.**
Specific Objective	**Enhanced management of marine protected areas through:** **1. Protection of biodiversity through the sustainable use of marine resources, scientific research and technology.** **2. Mitigation of illegal fishing phenomena and overfishing.** **3. Increase of the surface of marine protected areas.**
Results	**R1.1** → Executive plan with a detail timetable. **R1.2** → Strengthening of cross border cooperation and identification of a common methodology of governance of protected marine areas. Good practices successfully transferred; empowered capacity building of staff involved in the exchanges; increased knowledge of employment service in Europe. **R1.3** → Full understanding of survival state of the habitat of Posidonia's prairies to optimize the next interventions. **R1.4** → Enhanced knowledge of the baseline socio-economic. **R1.5** Monitoring and protection of priority habitat 1120 of P.oceanic prairie, providing an adequate ecosistemic and ecological framework. ********** **R2.1** → Reduction of economic wastes in fishing activity and stipulate conventions between contractors of local management plan. **R2.2** → Adoption of joined tools and methodologies for marine areas management. **R2.3** → Creation of shared monitoring network on collected data by drone. **R2.4** → Writing ex ante and ex post report of the project with consequent evaluation of economic consequences resulting from the project. ********** Expected result from actions **M2.1, M2.2, M2.3, M2.4, M3.3** → Increase vegetable and animal biodiversity through technological system.

	R3.1 → Policy recommendations for a better management of protected areas and its conservation status at regional and local level. **R3.2** → Increased awareness about environmental sustainability and the importance to develop sustainable fishing techniques in respect of ecosystems and biodiversity. **R3.3** → Increased professional skills of fishermen, local communities, of the complementary skills and of economic opportunities (skills transfer). **R3.4** → Strengthening cross border nature of the project – Creation of network with signature of transnational Memorandum of Understanding committing the subjects for at least 5 years. **R3.5** →Capitalization of value added produced by the project in the engaged area.
Activities	**M1.1 → Agreement between partners and executive plan of the actions:** Definition of roles, responsibilities and competences between partners. Methods of initiating of collaborations with external subjects and the methods of communication between partners (ex. Skype, e-mail, dropbox) will be defined. Will be determinated times, methods, budget, human resources, infrastructures, installation and equipment made available for the realization of project activities. **M1.2 → Exchange and diffusion of good practices:** Identification of good practices at transnational level related to coordination and management/governance of marine protected areas in order to identify a common methodology aims to reinforce the cooperation between the competent subjects to defend the protected areas and reduce overfishing phenomena. **M1.3 → Identification and census of limits of Posidonia's prairies in project areas**: Will expect a realization of monitoring system of marine environment with the use of multiparameter sensors arranged on the sea and on the land (movable). It'll be positioned on little-UAV and managed by a Control Center situated on a boat called Itinerant boat. The data collected can be represented both in graphic form and tabular, structured in dashboards that give back a set of information about the state of areas of intervention. The data obtained by drones will be mainly oriented to mapping of seabed through the representation of isobaths and transepts. The survey campaign will happen through the vessel, equipped with GNSS and Sonar with singlebeam sensor, in order to return a set of georeferenced points with relative depth. During the phase of processing data will be analyzed various interpolation models for the creation of GRID, necessary to give back the data, homogeneously allocated in the analysis area. The raw data will be elaborated by a software, expressly configured for the system that will allow to introduce the GNSS data and to implement possible corrections through the insertion of RINEX (Receiver Independent Exchange Format) correction data. The Software will permit the export of data in

	Access form. **M1.4 → Collection of socio-economic and environmental data of areas involved in the project:** The action will use principal statistic sources and literature about the topic (scientific publications, reports, website, etc.) with a particular reference to fishing activities in the cooperation area and the data will be collected and elaborated in M2.4. **M1.5 → Creation of a protection and control perimeter of vulnerable coastal marine areas**: The action expect the perimeter of identified marine surfaces that will be object of next test in M2. Will provide to the purchase, the installation and the location, with anchoring on seabed, of n. xx signal buoys with a bright system and radar, to delimit the area where the fishing, the motor navigation and mooring are forbidden. This action will take place in the selected areas, particularly, the mouth of Posada river and Caletta port for Sardinia. ********** **M2.1 → Fulfillment of local management plan:** Object of this action are the areas involved in the project (marine area overlooking Posada town for Sardinia). Management of fishing methods based on the participation of operators and on the sharing of objectives and common tools that will flow into an systematic plan will be identified. The various measures have to prepare an adequate informative platform to realize management methods based on data and information about reliable bio-economic aspects and constantly updated. **M2.2 → Fulfillment of a governance platform on Integrated Coastal Zone Management (ICZM) and a geoportal for sharing of data:** Fulfillment of a complex and efficient data archive on the basis of an interactive platform and constantly updatable by partners. The activity will need the construction of a georeferenced system (GIS) for the management of data and information. The data will concern the environmental and socioeconomic component, connected to fishing sector and other local productive sectors. The realized system will collect all the useful elements for the comprehension of cumulative trends, together the data and consequently the identification and the validation of tools of estimate on regional and local level. The methodology will be based on data analysis (also different for nature and typology) and will analyze it on spatial basis in order to generate Papers of Values. These Papers will represent, through a scale of values, different degrees of related importance that the environmental aspects and economic activities assume, about fishing sector, into involved area. The collected information will be georeferenced and will be produced layers GIS that highlight the primary zones. Is planned the preparation of a reference technical document to restore coastal and marine habitat. **M2.3 → Evaluation of limits of Posidonia prairie with the use of remote sensing, UAV and periodical control of vegetative state:** The

	technological system underlying the acquisition of data and elements arising from multysensor (sonar/sub, bottom profiler/Galileo data/sentinel satellites) is composed by sensors and control mechanisms that can manage a lot of information and create a monitoring shared network. One of essential tools of the system is aquatic drone. It can made punctual and precise surveys in short time and at low cost. It will implemented monitoring campaigns through n. xx sampling stations in the coastal marine areas object of intervention. **M2.4 → Monitoring for economic evaluation of the fishing effort and evaluation of economic added value**: The action want to evaluate the economic consequences arising from implementation of the project. Will proceed with elaboration of an ex ante and ex post economic framework, relevant to fishing and other principal activities of the territory. Particular attention should be dedicate to the evaluation of the fishing effort, in order to commensurate the extent, highlight criticalities and underline peculiarities. However is expect positive effects on income of the fisherman from the project, through the adoption of shared management form and, more generally, on the economy of the territory. The creation of new economic value to the local community will be evaluated ongoing and ex post through the quantification of various socio economic indicators and some qualitative methodologies. However, the analysis of expectations of fishermen and stakeholders will be more important than the creation of new value associated with the adoption of innovative technologies in the fishing management. It will be achieved through analysis tools based on participative approach (ex. focus group). It will be able to explain the fronts on which it's created new value. ********** **M3.1 → Elaboration of policy recommendations**: The achieved path starting with the sharing of experiences, the involvement of the key players and of interested stakeholder, has a pinnacle on the action of elaboration of recommendations that can be incorporate at policy level in order to improve the integration of protected areas in the territorial development strategies. A series of meetings (knowledge of the project and the advantage of the extension of the protected marine areas) in the several areas of action will be held. The meetings will culminate with the elaboration of transnational recommendation document to propose in the appropriate institutional levels. **M3.2 → Innovative tools – Boat lab. Sensitize, Dissemination, Information** Training and awareness activities will be carried out with schools, citizens, local administrators, fishermen and tourists, about the climate changes, the deterioration cost of fragile areas for the fishing communities into the boat lab. Will be realised a monitoring to the safety and the planning about the use of coastal space. **M3.3 → Planning and creation of training events, of awareness and building of capacities on sustainable tools (ICZM) in the field of**

	fragile areas and Spatial Data Infrastructure (SDI): the activity develops two different paths, on the responsible fishing and protection of marine resources, destined to the project partners and the principles stakeholders (fishermen, local communities, public bodies), oriented to improve the management of marine protected areas. The first path (max. xx participants) will be aimed to Management of the System of the Governance Platform. The second path (max. XX participants) will be aimed to the optimization of the results of the exchange and the improvement of the management practices of marine areas. Finally, events will be realized to increase the knowledge about topics of the project and also the consultation of System of the Governance Platform. **M3.4 → Creation of network**: Strengthening of cross-border cooperation through the creation of a network with other coastal areas and project experiences developed in coherent setting, in order to conduct a common management strategy of the protected areas, over the punctual experiences of this project. The network answer to specific objectives: • Improve the level of communication and exchange between realized/in progress MED projects in order to maximize the effects of protection and conservation of natural territorial resources. • Start a network that can enhance the environmental heritage in keeping with an integrated and sustainable management of protected areas. **M3.5 → Creation of Info Point**: The creation will take place in spaces that will be expressly identified near the interested areas of the project. The objective is to contribute to the improvement of the knowledge and awareness of value of marine protected areas, not only at dissemination of project results perspective but also other project realities. Moreover, the info points represent the space that can improve and capitalize the action of the network.